

County Council Update on Capital Projects, Flood Damage Repairs & Maintenance by Engr Div – May 24, 2022

2022 Annual Construction Program (ACP) Capital Projects Delayed & Flood Repair Project Additions (List includes only major projects)

Capital Projects Delayed on 2022 ACP:

Project Number	Project Title	Reason
R2	E. Smith / Hannegan Intersection Improvements (Fed)	CN Delayed - R/W Acquisitions; Utility Relocations to complete.
R5	Marshall Hill Rd – Slide Repair / Culvert Replacement	CN delayed – Additional Slides on road; PE work delayed.
R15	Birch Bay Drive Pavement Rehabilitation	CN Delayed – lack of staff to execute large project in Birch Bay community.
B2	Jackson Rd / Terrell Crk Brdg No. 81 Replacement	PE Delayed – staff constraint, unable to initiation final design efforts.
B4	N. Lake Samish Bridge No. 107 Replacement (Fed)	CN Delayed - R/W Acquisitions; Long lead time on girders.
B12	Deal Rd / Fish Passage Improvement	PE Delayed – staff constraints, unable to finish in-house design.
Y9	Beam Guardrail Replacements / Upgrades	PE & CE Delayed – staff constraints, unable to finish in-house design.

Recent Addition

Flood Damage Repair Projects in 2022:

WO #	Project Title	Reason/Status	Total Project Cost	Whatcom Co Cost (~15%)
22437	North Fork Rd - Major road/fill slope failure.	Adjacent to N. Fork Nooksack River/loss of roadway fill slope. 85% complete with permanent repairs. FEMA	\$1,000,000	\$150,000
22314	Birch Bay Lynden Rd - Major culvert failure/road washout.	Plugged culvert/loss of rd & structure. Temp repairs 100% complete; permanent repair is future Fish Passage structure. ER-FHWA	\$810,000	\$121,000

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Flood Damage Repair Projects in 2022:

WO #	Project Title	Reason/Status	Total Project Cost	Whatcom Co Cost (~15%)
22293	Goshen Rd --Major slope failure/road washout.	Plugged culvert/complete road failure; Temp repairs 100% complete; permanent repair w/Brdg Rplc; FEMA	\$175,000	\$26,000
22541	South Pass Rd - Major slope failure/road impassible.	Ground water-activated failure plane caused road failure. 85% complete w/ temp repairs. ER-FHWA	\$700,000	\$105,000
22517	Silver Lake Rd - Major debris slide / road impassible.	Plugged culvert w/debris flow; blocked road; shoulder/ditch scour. Permanent repairs 100% complete. FEMA	\$60,000	\$9,000
22550	Sunset Ave - Slope failure/road washout.	Saturated slope eroded by Silver Creek. Safety measures in place. 0% repairs complete. FEMA	\$800,000	\$120,000
22322	Drayton Harbor Rd - Slope failure/one-lane road.	Saturated shoreline slope eroded by wave action of Drayton Harbor. Safety measures in place. 0% repairs complete. FEMA	\$2,200,000	\$330,000
22584	Beach Ave (Lummi Is) - Major road failure/road washout.	Plugged culvert resulted in debris flow, roadway section loss and ditch scour. One-lane access; 5% repairs complete. FEMA	\$500,000	\$75,000
22453, 22461	Northwest Dr - Shoulder failure/ 2 sites.	High flows eroded shoulder, undercut lane. Permanent repairs 100% complete. ER-FHWA	\$125,000	\$20,000
22883	Swift Creek – Emergency Channel Maintenance	Hvy rain caused major slide activity into Swift Crk drainage; overflow channel/ plug structures. FEMA	\$150,000	\$22,000
22576	Mosquito Lk Rd – Major road failure/one-lane road.	Plugged bridge opening at Porter Crk caused loss of road section. Permanent repairs 100% complete. FEMA	\$200,000	\$30,000
23587	Manley Rd – minor rd fill failure in steep terrain above I-5.	Plugged culvert/ditch line eroded steep fill slope above Interstate 5; 0% complete. FEMA	\$400,000	\$60,000

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Total \$7,120,000 \$1,068,000

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The highest priorities in the Engineering Division are to: 1) complete key Flood Damage Temp Repairs affecting the motoring public & the movement of goods/services; and 2) continue to advance major Capital Projects whose funding is jeopardized by a delay.

The secondary priorities are to: a) initiate activity on all Flood Damage Permanent repair sites to ensure funding eligibility; and b) address unplanned maintenance for safety reasons.

General Comments:

- Approximately 55% of Flood Damage Repair work is complete; most of temporary repairs to restore access is 100% complete. Remaining permanent repair work will continue in 2022. Several sites will become 2023/2024 program projects, but retain emergency funding [Drayton Harbor, Beach Ave, Sunset, Manley, Birch Bay-Lynden, S. Pass].
- Several prior repair projects were not funded in current Flood Damage repairs, occurring in 2020 or require *future* fish passage – Deer Trail, Marshall Hill Rd, and Fox Rd Fish Passage. These projects will affect overall staff workload & project delivery.
- Unplanned Maintenance like the Lummi Island Dolphin Repair and Maple Beach Seawall Repair will continue to be a challenge to fit into the existing Capital and Flood Damage work.
- Failing Pavement Sections like Portal Way and Lk Louise will compete with other work and Capital projects for Staff Resources and Budget. Portal Way is complicated by Shorelines & Blaine R/W and Lk Louise is hampered by rising HMA costs. May only be able to patch vs. complete effective repair projects.
- Currently the Engineering Division is down two positions in the Design/Construction Section - Engineering Manager and a Design Engineer II...yet we are still managing to get out construction contracts, with two bid openings today.
- Costs are approximate, and predicted to increase in the future due to rising fuel costs and other inflationary factors. Supply Chain delays still occurring in some material acquisition sectors (i.e. Steel, Brdg Girders, etc). These require early bid package preparation (N. Lake Samish Brdg, Kenny Crk Fish Passage Brdg).
- Reimbursement costs are still preliminary with both FEMA and FHWA (ER). FEMA started detailed evaluation of emergency funding on 3/16/22, meeting with Public Works and performing detailed site reviews. FHWA review expected near latter part of 2022 year.