

Bridge Spot Repair Program

Kit Loo and Ken Ewalt, SDOT

Levy Oversight Committee

May 2, 2023

Outline

- Program Overview
- Funding
- Progress To-Date
- Looking Ahead
- Questions



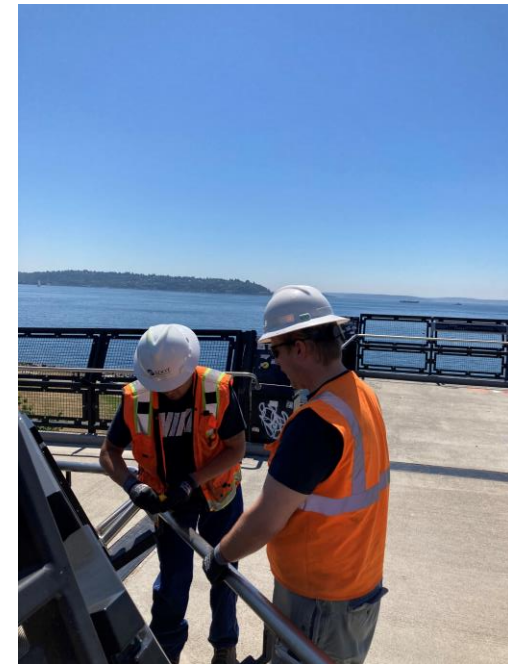
Fremont Bridge

Key Takeaways

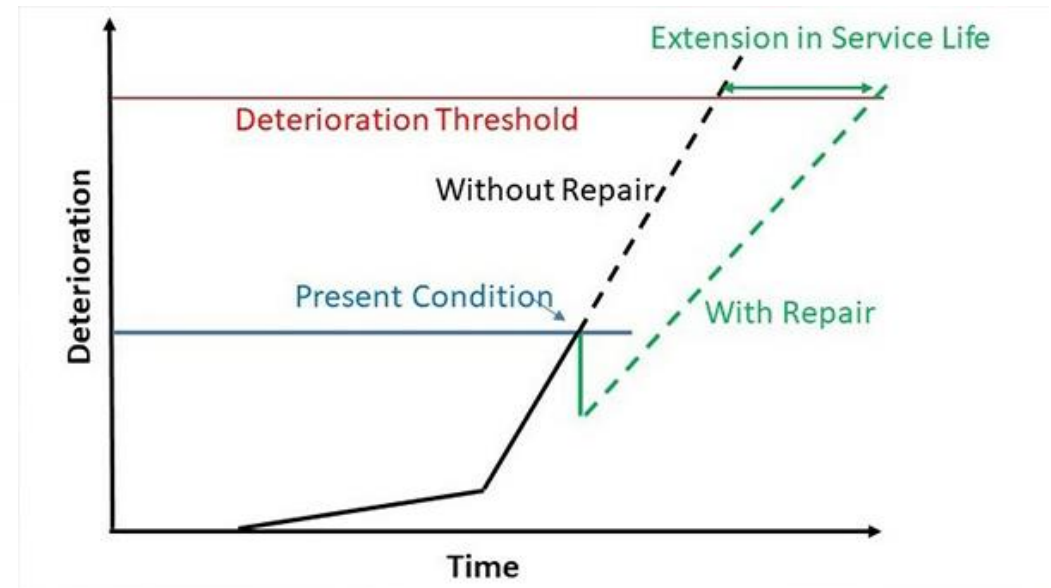
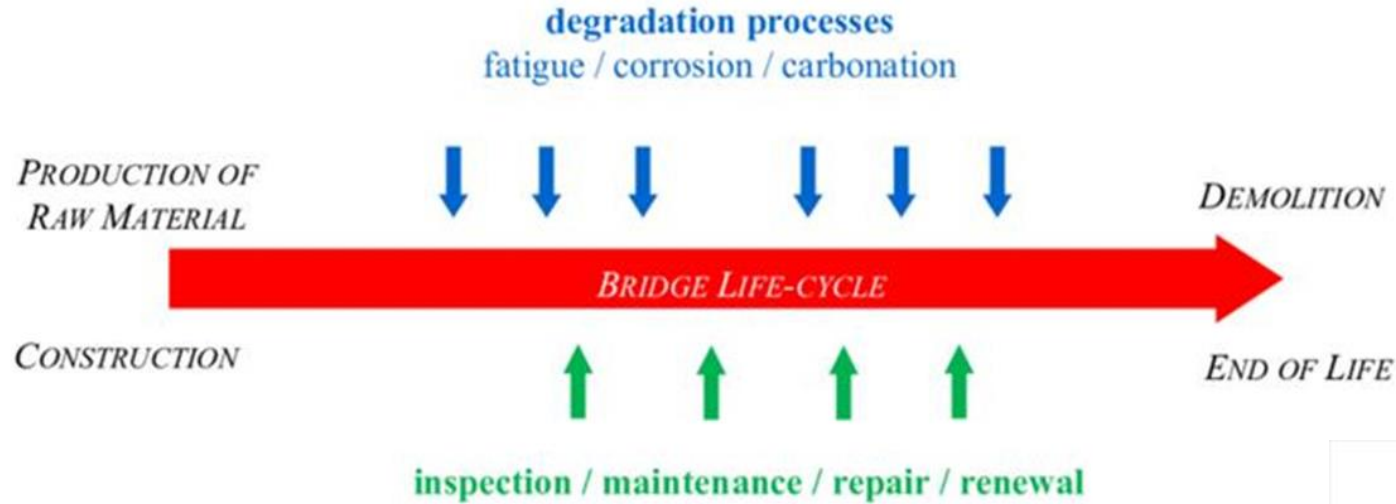
- Bridge spot repairs are an important part of our overall bridge asset management program
- We are on track to meet our Levy commitment in the Bridge Spot Repair program

Bridge repairs as part of SDOT's bridge program

- Maintenance types
 - Preventative
 - Reactive
- Maintenance is a key complement to other bridge work programs
 - Structures Major Maintenance
 - Bridge Load Rating
 - Bridge Seismic Retrofit
 - Bridge Rehab & Replacement
 - Bridge Painting



What Do Repairs Do?





Deck welding repairs on the Fremont Bridge.

Bridge Spot Repair Program

Levy to Move Seattle commitment:
Eliminate the backlog of bridge spot repairs.

- 810 open work orders before Levy to Move Seattle; ~600 of these work orders have been addressed to date
- Continue to respond to bridge maintenance/repair work (since 2016 average 572 per year)

How do we identify areas that need repair?

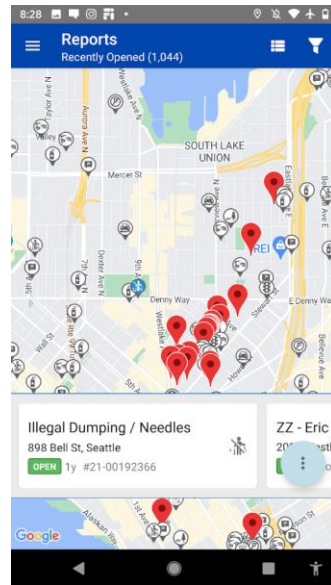
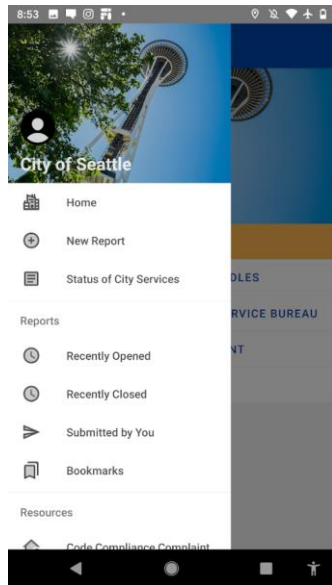
Bridge inspection



Service Request



- Find it, Fix it mobile app
- Email from public



From: InquiryNotification-DoNotReply@seattle.gov <InquiryNotification-DoNotReply@seattle.gov>
Sent: Thursday, March 02, 2023 4:20 PM
To: DOT_RoadwayStructures_DocumentReview <DOT_RoadwayStructures_DocumentReview@seattle.gov>
Subject: ASSIGNMENT - PATRICIA ANNE REYES - SR 23-00051381

CAUTION: External Email

Dear ROADWAY STRUCTURES:

PREPARE RESPONSE FROM SDOT STAFF BY Mar 14, 2023 05:00 PM

Response Type: Direct to Customer
Type: Request for Service
Source: Customer
Additional Instructions/Notes:

Please follow these instructions to draft a response to the constituent:

1. Using Microsoft Word (not with electronic letterhead), please draft a response from the appropriate SDOT staff member.
2. Once you have prepared and formatted the draft, click [here](#), attach the Word file, and send the e-mail. Please do not change the subject line on this e-mail message. The name of your Word file should start with a letter of the alphabet, and contain no special symbols (e.g. - ; # & %).
3. Once we receive your response, we will give it a final proofing and send it to the constituent.

If you have any questions or if this item needs to be assigned to a different SDOT division, City department, or other agency, please reply to the e-mail by clicking [here](#) and leaving the subject line unchanged.

Thank you very much!
LEONIA LAJ- TAUOLO
Service Request ID: 23-00051381
Due: Mar 14, 2023 05:00 PM

Constituent: PATRICIA ANNE REYES
Phone:
E-mail: pat172002@gmail.com
Address:
Location: 6111 15TH AVE NE, SEATTLE, WA 98115
([PLACENAME]) COWEN PARK BRIDGE
Subject: Cowen Park Bridge Information

Comments:
Good afternoon, Hello, my name is Patricia Anne Reyes and is currently a second-year student at the University of Washington. I'm currently taking a construction management class and we have a project that requires us to present a structure and its history. I chose Cowen Park Bridge and am looking for any drawing or sketch of the bridge plan, but I can't seem to find it anywhere on the internet. It is a requirement for the project, and I was hoping to ask if you guys would have any records of it or any other drawings related to the project. Thank you for your time! - Patricia Anne Reyes



Bridge Spot Repair Program Funding - 2016 to 2024

| Fund Source | Total |
|----------------------|----------------|
| Levy to Move Seattle | \$27.7M |
| Local | \$23.3M |
| Total Funding | \$51.0M |

Progress To-Date

| LEVY DELIVERABLE | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | TOTAL TO-DATE |
|---|------|------|------|------|------|------|------|---------------|
| Bridge spot repairs completed from original backlog | 139 | 136 | 62 | 52 | 69 | 64 | 77 | 599 |
| NEW Bridge spot repairs completed | 340 | 479 | 418 | 457 | 366 | 374 | 354 | 2,788 |

➤ **We are on track to meet the Levy goal.**

2022 Highlights

Completed 354 bridge spot repairs:

- **Epoxy crack injection:** Magnolia Bridge, 4th Ave Over Argo Bridge, Emerson St Bridge, Nickerson Interchange, Ballard Bridge, and Fautleroy Expressway
- **Expansion joints:** Ballard Bridge, SW Admiral Way Bridge, 15th Ave/Leary Bridge, and Jose Rizal Bridge
- **Bridge rails:** Ballard Bridge, SW Admiral Way Bridge, and Fremont Bridge
- **Concrete spalls:** Spokane St Viaduct, S Jackson St Bridge, and 4th Ave S Bridge
- **Miscellaneous:** pedestrian gates at Ballard Bridge, repair hydraulic pump unit Swing Bridge



Rail repairs on Lakeview Blvd E Bridge



Expansion joint repair on University Bridge

Looking Ahead

- Will eliminate the entire backlog of needed bridge spot repairs that existed prior to 2016
- Will continue to address and close out spot repair needs logged since 2016
- Continuing to prioritize and respond to new work orders

Questions?



Contact Information



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From the entire SDOT Team:

Thank you!

