



**BRONSON WAY BRIDGE  
SEISMIC RETROFIT AND PAINTING**





**PROJECT LOCATION**

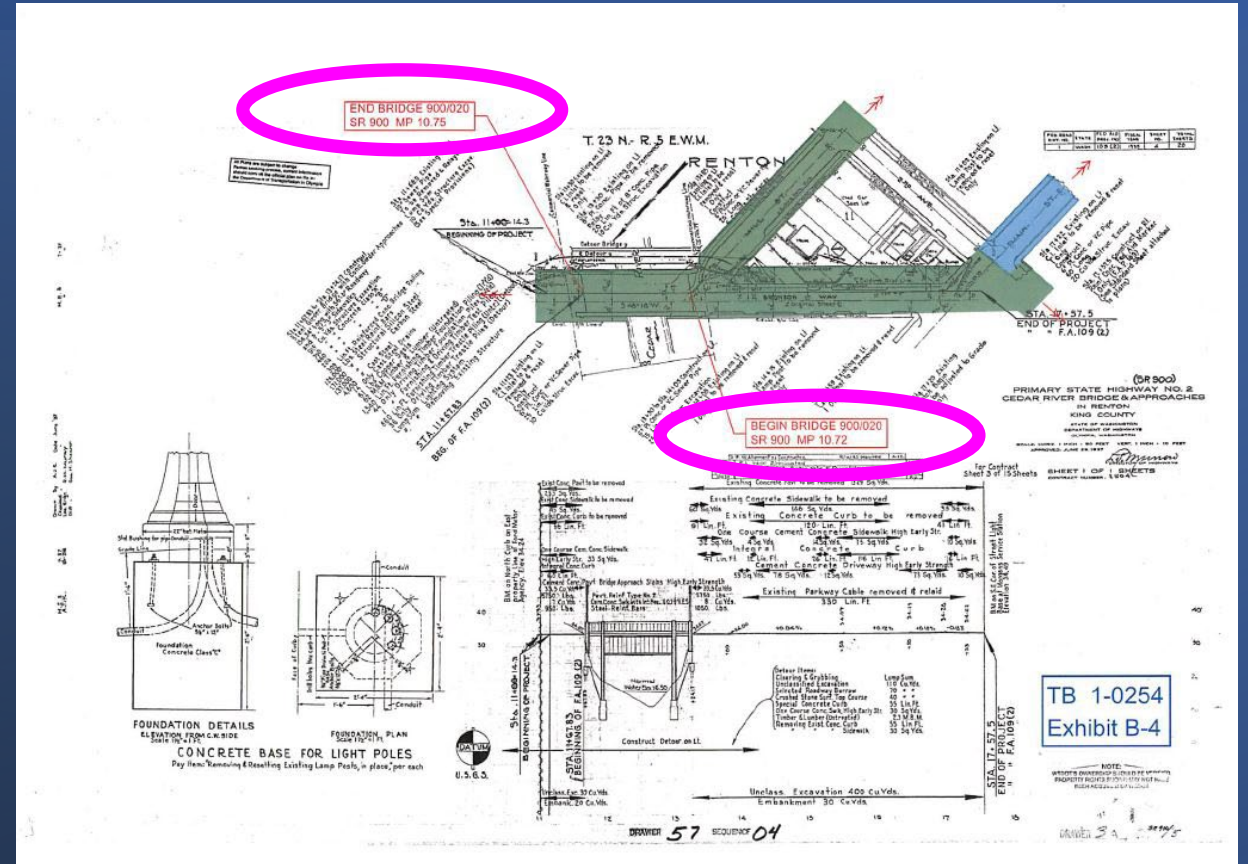


## BRIDGE HISTORY

|                        |   |
|------------------------|---|
| Bridge Name:           | Bronson Way Bridge (formerly Cedar R)   |
| Structure ID:          | 0002504A  |
| Bridge No.:            | Renton-42 (formerly 900/20)   |
| Year Built:            | 1939  |
| Last Painted:          | 1999 (painting cycle approx. every 20 years)  |
| Last Seismic Retrofit: | None  |
| Last deck overlay:     | 1978  |
| Ownership transfer:    | 2018 (from WSDOT to Renton with execution of Turnback Agreement TB 1-0254 for SR 900) |



# SR 900 TURNBACK AGREEMENT





# GENERAL STRUCTURE INFO

## Superstructure

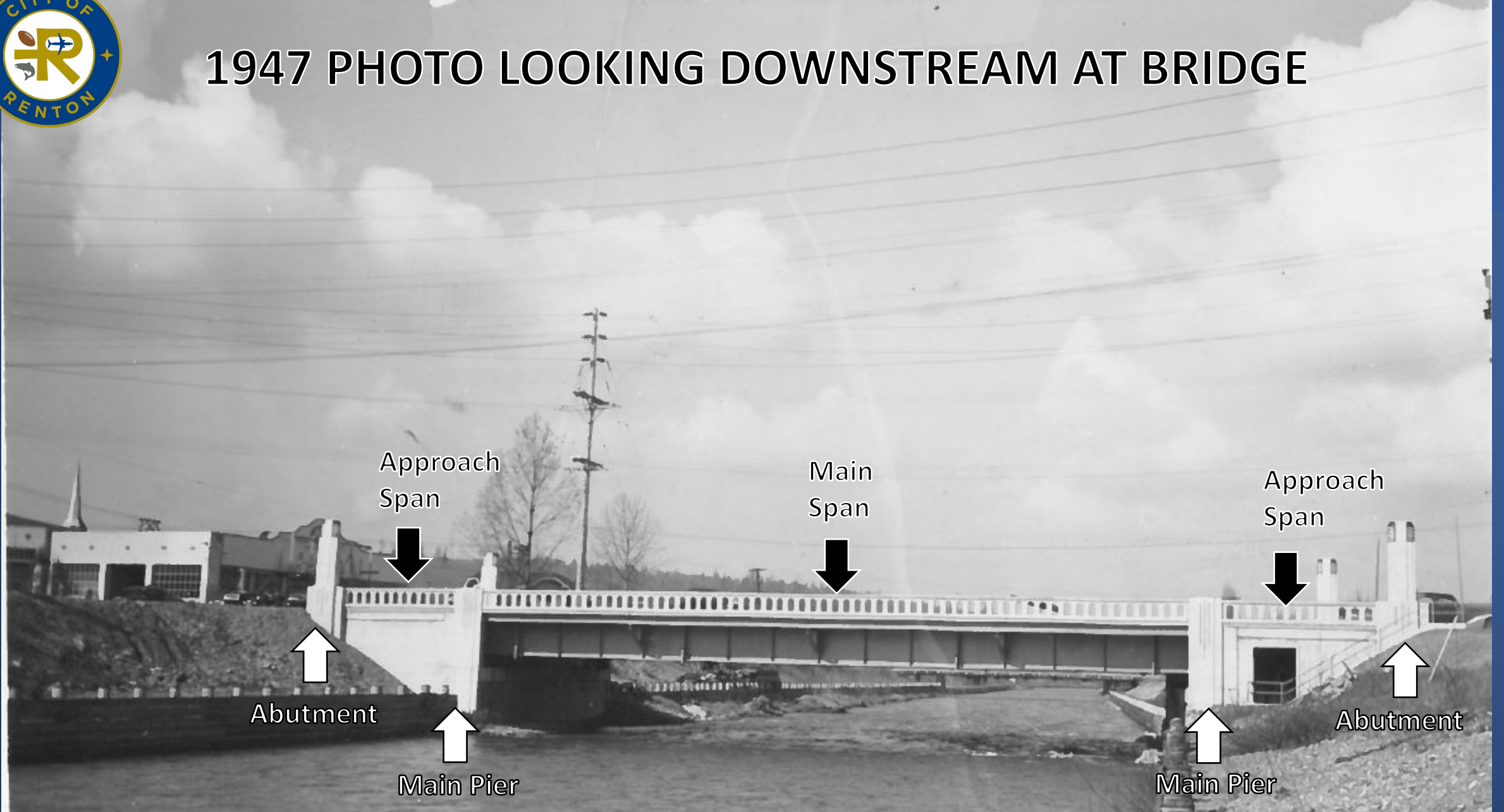
|                  |   |
|------------------|---|
| Number of Spans: | Three   |
| Main Span:       | Steel plate girders with deck beams and stringers |
| Approach Spans:  | Reinforced concrete beams                         |
| Deck:            | Reinforced concrete with asphalt overlay          |

## Substructure

|                        |                         |
|------------------------|-------------------------|
| Number of Piers:       | Four                    |
| Main Piers founded on: | Concrete Spread Footing |
| Abutments founded on:  | Timber Piles            |



# 1947 PHOTO LOOKING DOWNSTREAM AT BRIDGE





# 2020 PHOTO OF BRIDGE DECK

Downstream  
Steel Girder

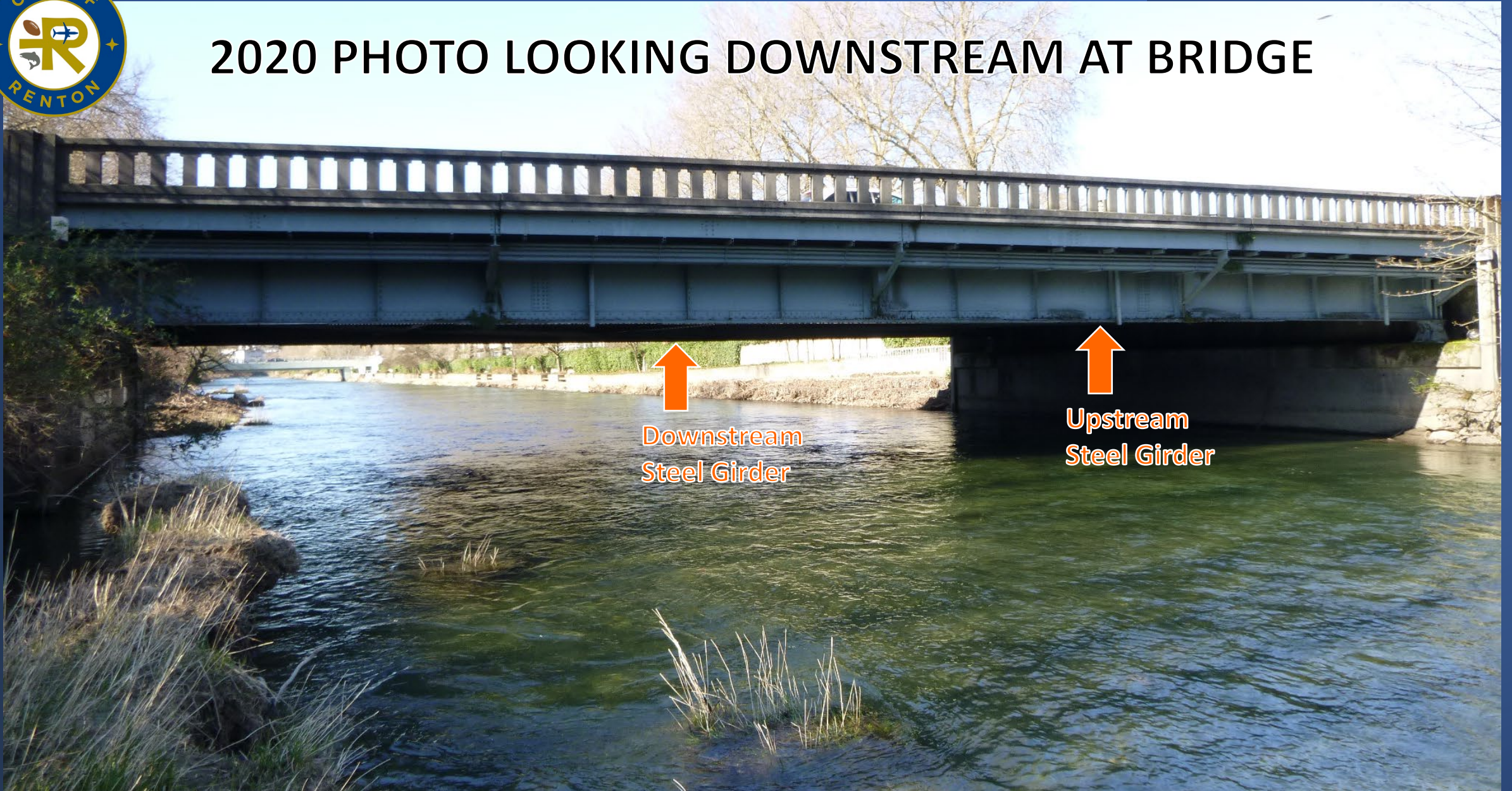


Upstream  
Steel Girder





# 2020 PHOTO LOOKING DOWNSTREAM AT BRIDGE



Downstream  
Steel Girder

Upstream  
Steel Girder





# 2017 PHOTO LOOKING UPSTREAM AT BRIDGE



Downstream  
Steel Girder



Deck  
Beam,  
Typ.



Upstream  
Steel Girder



# 2017 PHOTO LOOKING AT NORTH (EAST) MAIN PIER



Downstream  
Steel Girder

Bearing  
(Fixed)

Deck  
Beam,  
Typ.

Bearing  
(Fixed)

Stringer,  
Typ.

Upstream  
Steel Girder



## PROJECT INFO

|                              |  |
|------------------------------|--|
| Funding Source:              | Washington State Legislature   |
| Total Grant Funding:         | \$3 million  |
| 1 <sup>st</sup> Ad for Bids: | May 18, 2022   |
| 2 <sup>nd</sup> Ad for Bids: | May 25, 2022   |
| Bids Due:                    | June 7, 2022 at 12:00 PM (3 bids received)   |
| Bid Opening:                 | June 9, 2022 at 1:00 PM (3 bids opened)  |
| Award:                       | Awarded July 11, 2022 to lowest responsive and responsible bidder, Combined Construction, Inc. in the amount of \$2,505,667.00 |
| Contract Execution:          | July 22, 2022  |



# CONCEPT - WORK PLATFORM SUSPENDED FROM SPAN





# EXAMPLES OF WORK PLATFORMS FOR BRIDGE PAINTING





# 2017 PHOTOS OF EXISITNG BRIDGE BEARINGS





# CONCEPT - BRIDGE JACKING AND BEARING REPLACEMENT



  
Precast  
Bearing  
Pedestal

  
Bridge  
Jack

  
Bridge  
Jack

  
Precast  
Bearing  
Pedestal



# EXAMPLES OF BRIDGE JACKS FOR RAISING SPAN





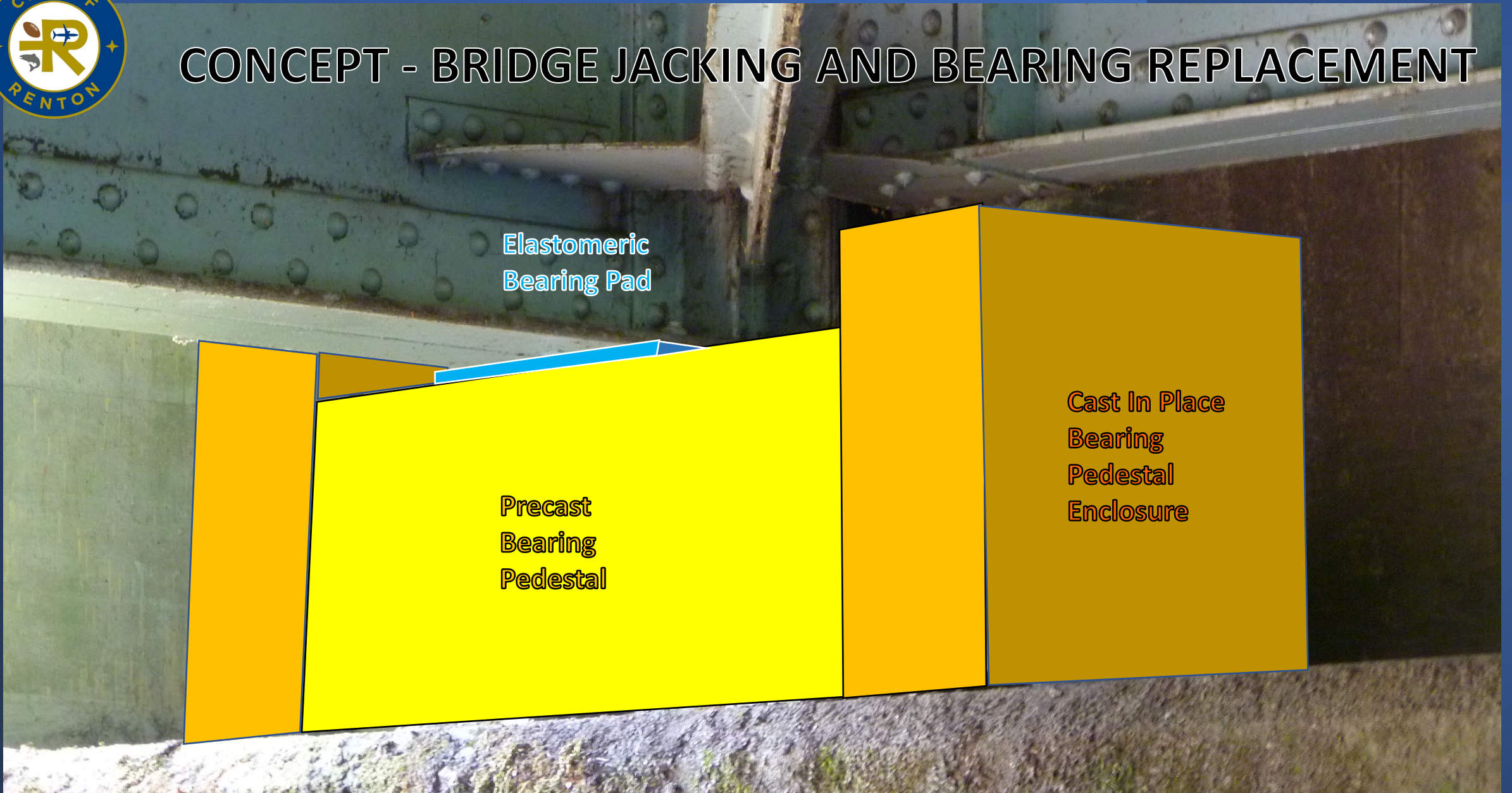


# CONCEPT - BRIDGE JACKING AND BEARING REPLACEMENT

Elastomeric  
Bearing Pad

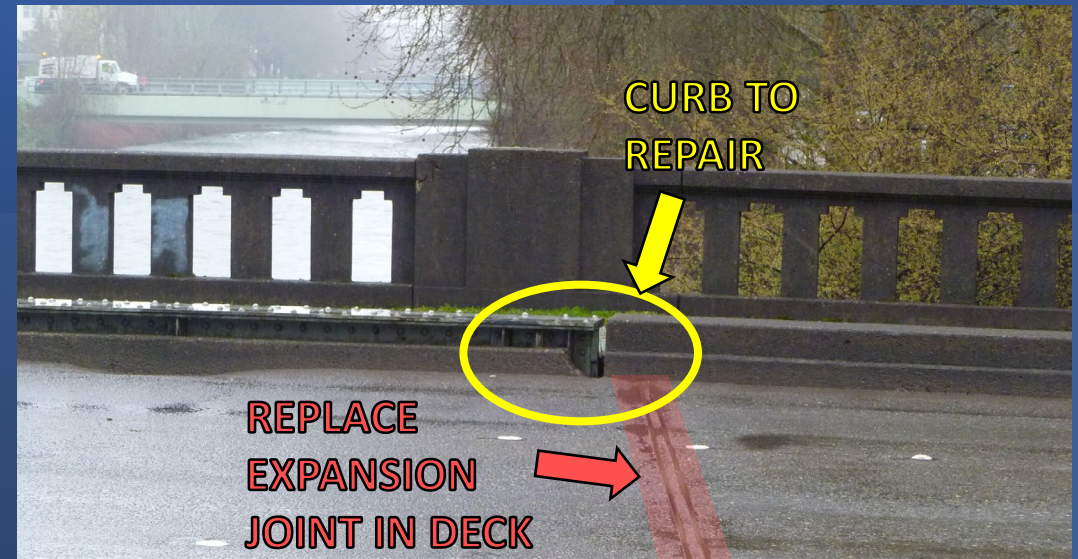
Precast  
Bearing  
Pedestal

Cast In Place  
Bearing  
Pedestal  
Enclosure





# 2017 PHOTOS OF EXISTING EXPANSION JOINTS AND CURB





# EXAMPLES OF EXPANSION JOINT REPLACEMENT

