

#### WSDOT Construction Costs and Bid Environment

#### **House Transportation Committee**

Jon Deffenbacher, Deputy State Construction Engineer February 2, 2024

Roger Millar, Secretary of Transportation

Mike Gribner, Deputy Secretary of Transportation

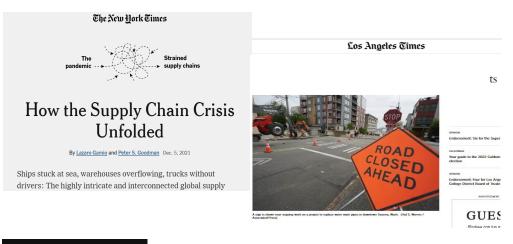
## **External cost and risk factors creating cost escalation both here and nationwide**

- Material cost volatility and availability
- Market conditions and competition among agencies
- Inflation volatility
- Workforce shortages
- Unanticipated events and risks impacting project schedules

#### The Seattle Times

Prices skyrocket on WA transportation projects, and fewer contractors want the jobs

Sep. 21, 2023 at 6:00 am | Updated Sep. 21, 2023 at 6:00 am



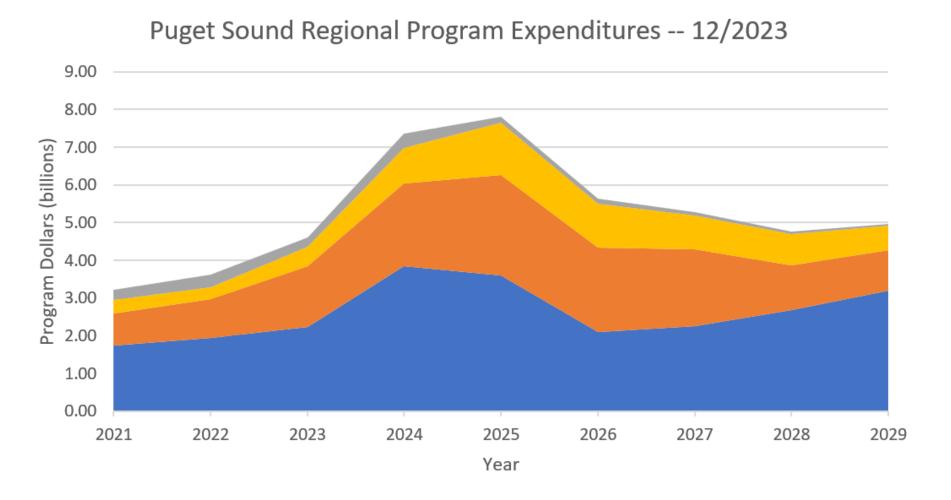
#### HOUSTONCHRONICLE

LOCAL // TRANSPORTATION

TxDOT officials, citing rising costs, predict they will need to say 'no' to some highway projects



#### **Puget Sound's Combined Capital Programs**

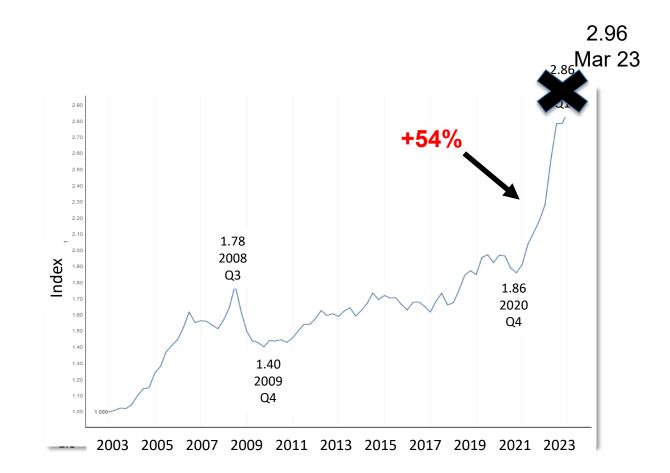


■ ST ■ WSDOT ■ Port of Seattle ■ City of Seattle



### **Historic escalation in National Highway Construction Cost Index**

- Measures the average change in prices paid by State DOTs for roadway construction materials and services over time.
- Price changes in highway construction nationally.
- Many states and regions experienced more exaggerated cost spikes for certain commodities.







1

7%

\$98

32%

J.

\$44

## WSDOT's approach to cost estimating

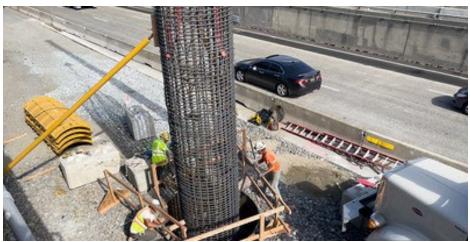
- Combines historical data and best available information to predict future conditions
  - $\circ$  Inflation trends
  - $\circ$  Cost History
  - Material costs
  - Labor costs
  - $\circ$  Project-specific risks
  - Overall market conditions



### **Bids by the numbers: Design-Bid-Build**

- Current bid climate appears to be normalizing.
- Typical average of 3.5 bidders per project in 2023, compared to downward trend in 2022.
- Costs are up, but the average difference between Engineer's Estimates and bid is tightening.







#### **Bids vs Engineer's Estimate**

January 2021 - May 2021 (65 projects) bids 3.4% below EE

June 2021 – May 2022 (102 projects) bids 11.8% over EE

June 2022 – May 2023 (113 projects) bids 2.3% over EE

June 2023 – January 2024 (44 projects) bids 5.4% over EE



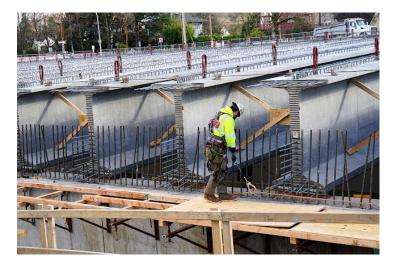
## **Bids by the numbers: Design-Build**



Number of bidders on larger, complex, long-duration projects <u>is down</u>



Bid prices compared to Engineer's Estimate <u>are up</u>





#### **Project/Program Cost Increases**

- I-405 Brickyard to SR 527: EE: \$525M BV: \$834M
- SR 520 Portage Bay Bridge: EE: \$812M BV: \$1.4B
- Injunction Fish Barrier Program: Current Program Budget: \$3.8B Revised Plan Estimate: \$7.3-7.8B
- SR 18 Hobart Rd to Deep Creek: Current Estimate \$600M Updated Estimate: Feb 2024+
- 2023 Contracts (100<u>+</u> total) EE: \$706.2M Low Bids: \$712.5M



# **WSDOT** will continue to proactively manage costs during construction

- Continue to utilize existing mitigation strategies
  - o Cost adjustments Fuel, Asphalt, Steel payment or credit, depending on market
  - Materials on hand Allows contractors to buy material and get reimbursed before the work is performed
  - Alternative Technical Concepts
  - $_{\odot}$  Practical Design Pause
  - Design Builder Initiated Change
  - $_{\odot}$  Value Engineering Change Proposals

 Focus on maintaining "Owner of Choice" status with industry – both AGC and ACEC

- $_{\odot}$  Clear and open communication we listen and we consider their perspective
- o Commitment to treating contractors/consultants fairly, reasonably, and appropriately
- Ensure our contracts balance risk appropriately
- $_{\odot}$  Provide adequate time, work hours, and timing of bids



## For additional information on WSDOT Construction Costs and Bid Environment, please contact:

Jon Deffenbacher, Deputy State Construction Engineer (360) 705-7829 or <u>DeffenJ@wsdot.wa.gov</u>.

