

Washington Bridge Update

**House Committee on
Oversight &
Senate Committee on Rules,
Government Ethics &
Oversight**

February 12, 2024



A message from Rhode Island Governor Dan McKee:

We apologize for the disruption that many Rhode Islanders are experiencing as a result of the Washington Bridge closure. These charts are an additional tool to help residents anticipate and plan for the added drive time on different days of the week at different times of the day. I thank you for your continued patience. Together, we will fix the bridge, we will do it right and we will keep Rhode Islanders safe.

Travel Time Tool

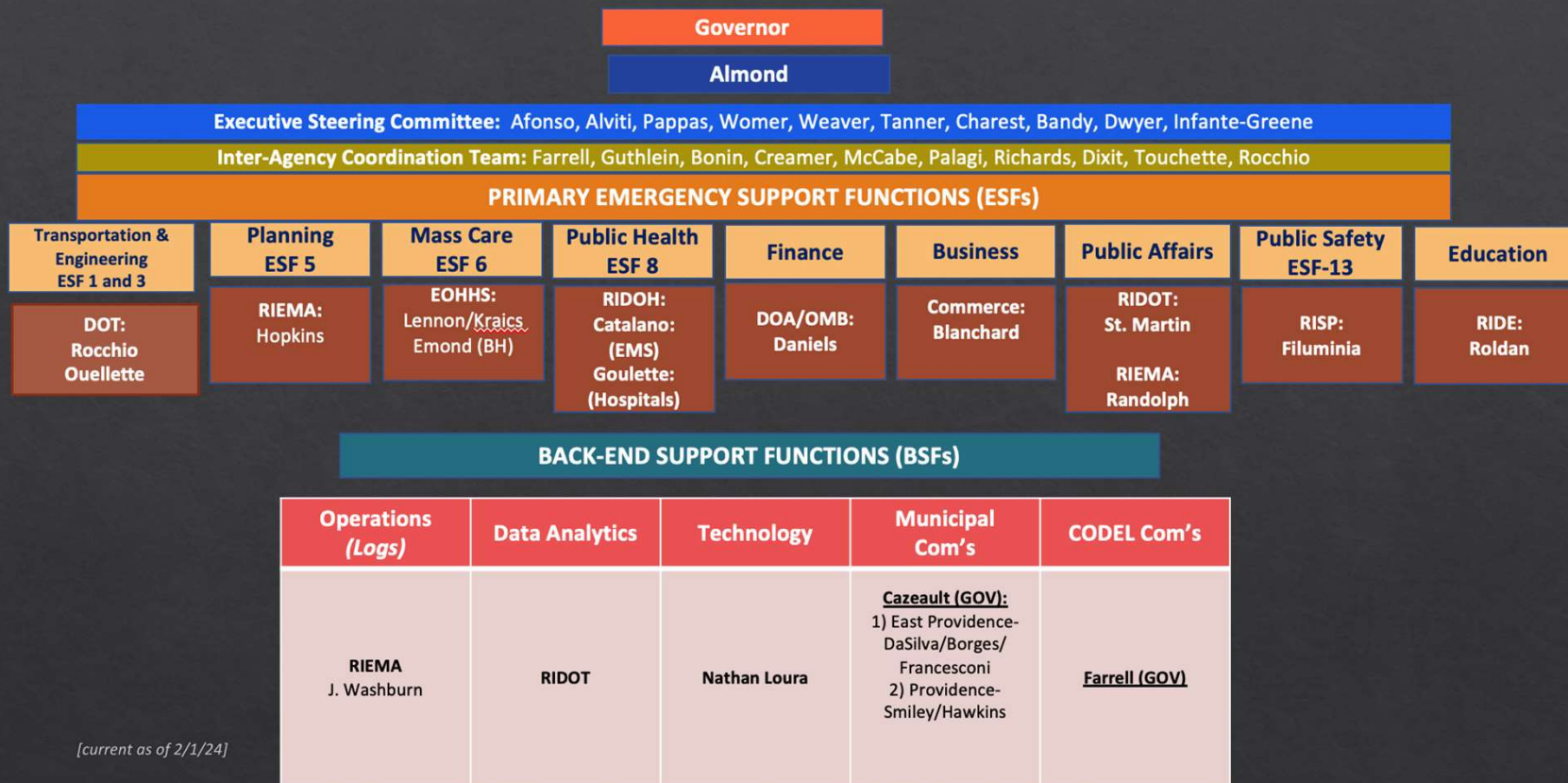
www.Washington-Bridge.com

I-195W from State Line to I-95 Split Time Difference Comparison Before and After Closure

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
5:00 AM	+0.4	+0.7	+1.0	+0.8	+0.4	+0.5	+0.5
6:00 AM	+8.8	+14.8	+12.1	+8.4*	+5.3	+0.2	+0.2
7:00 AM	+5.8	+14.4	+16.1	+7.3	+6.8	+0.6	+0.3*
8:00 AM	+7.5	+11.5	+9.1	+6.0	+8.3	+0.6	+0.4
9:00 AM	+11.4	+10.6	+10.7	+5.8	+6.1	+1.8	+0.5
10:00 AM	+5.9	+5.8	+6.6	+4.4	+5.3	+8.7	+1.2
11:00 AM	+6.2	+4.8	+10.8	+3.7	+5.9	+15.2	+6.0
12:00 PM	+6.4	+5.1	+10.7*	+4.6	+7.1	+18.0	+11.9
1:00 PM	+5.4	+8.5	+8.1	+5.2	+7.7	+16.1	+11.7
2:00 PM	+10.4	+11.0	+21.4*	+6.5	+11.4	+12.7	+9.6
3:00 PM	+14.2*	+12.6	+15.5*	+10.2	+9.7	+14.6	+9.4
4:00 PM	+13.4	+6.7	+6.5*	+4.2	+5.3	+9.1	+10.3*
5:00 PM	+9.1	+2.4	-0.3	+5.0*	+3.1	-2.3	+6.1
6:00 PM	+10.7*	+7.4	+10.3	+0.3*	+3.3	+8.7	+5.0

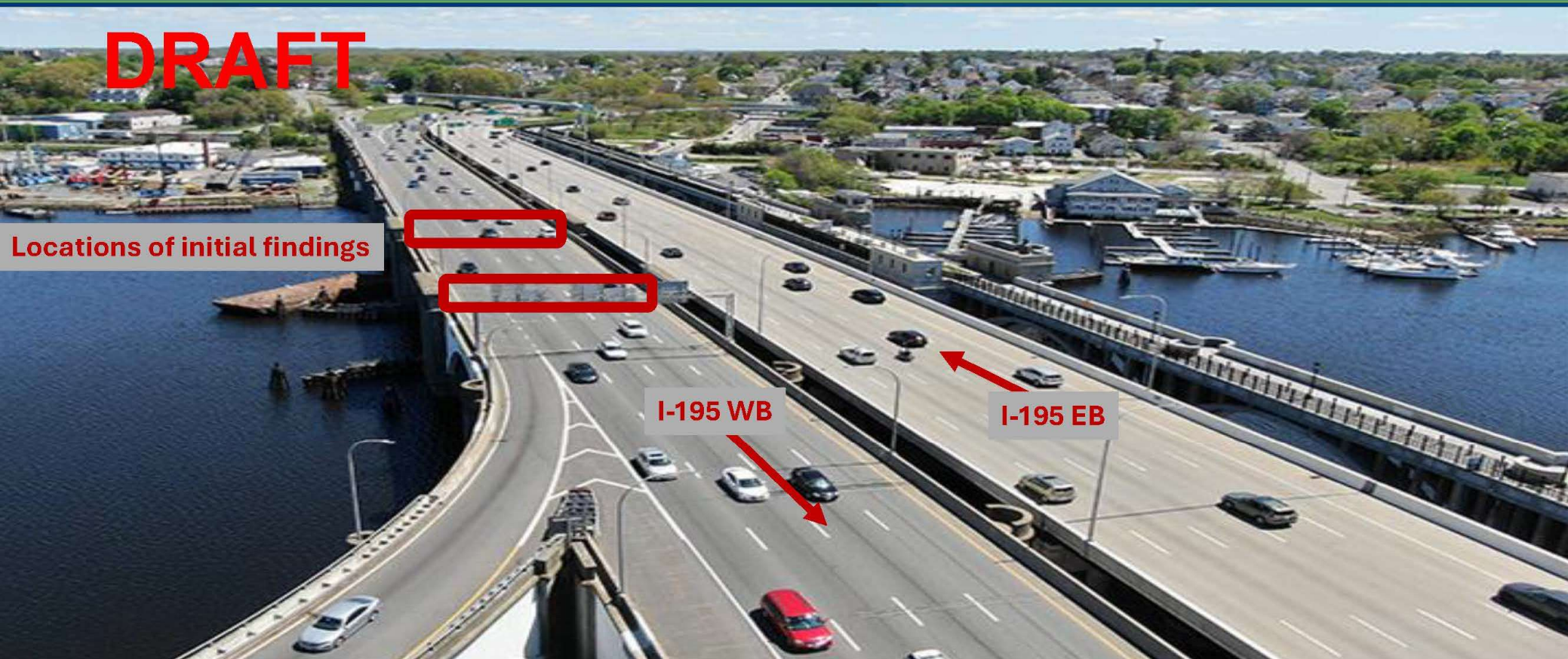
*Denotes a crash on I-195W that may have affected the travel time along this route.
Negative numbers indicate decreases in travel times.

Bridge Restoration Governance Unified Command Structure



[current as of 2/1/24]

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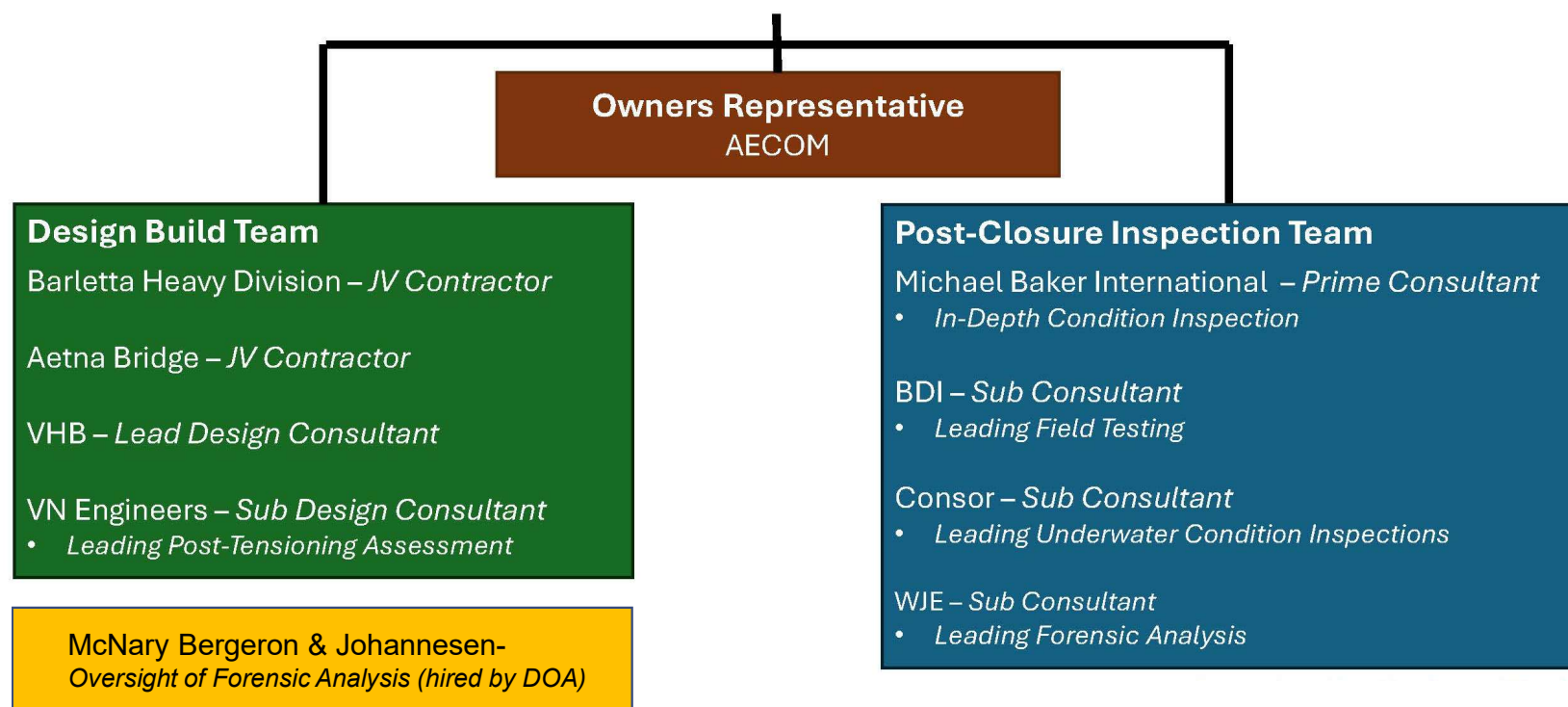


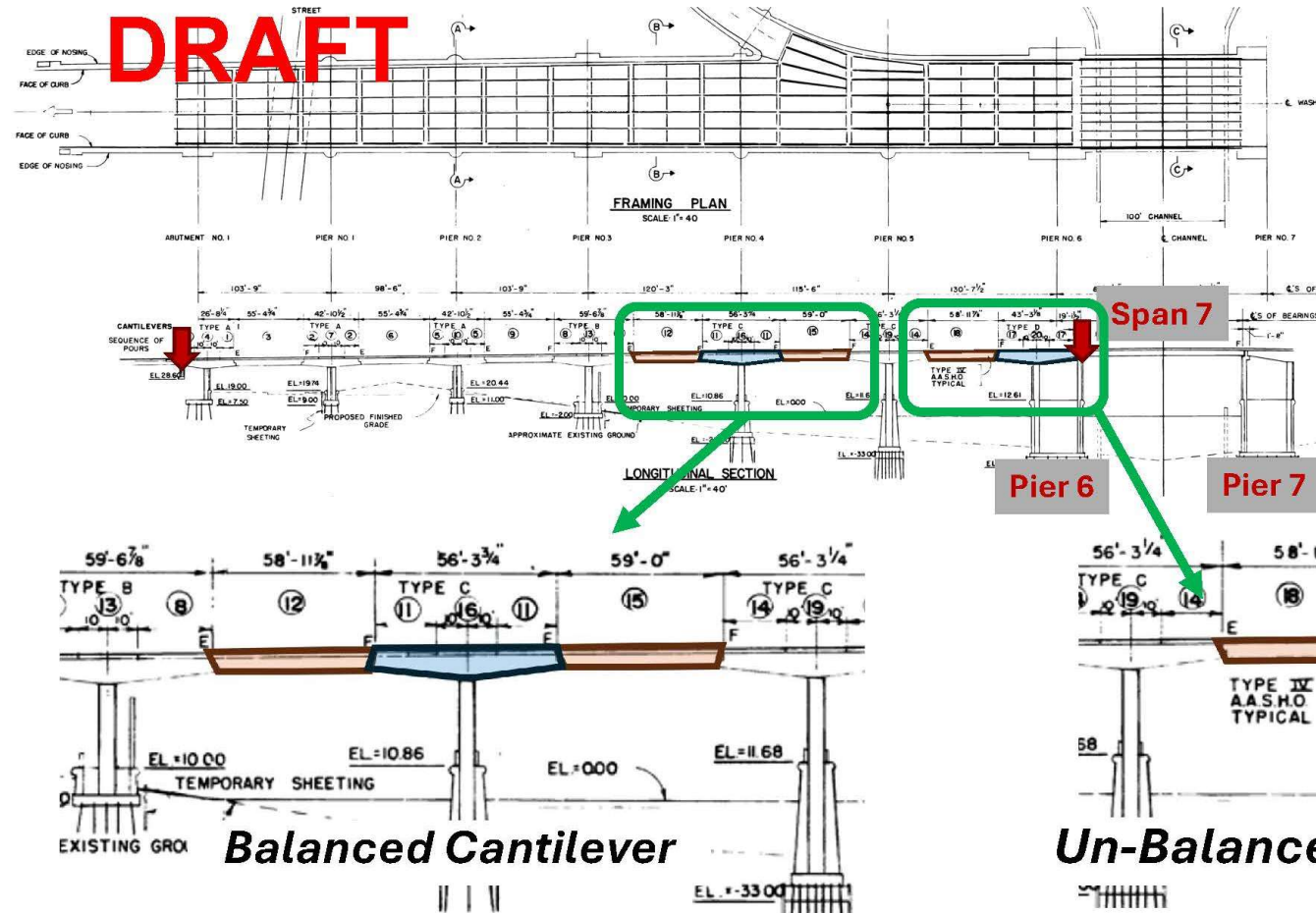
I-195 Westbound

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Washington Bridge Team





Legend

- Cantilever PT Beam
- Drop-In Beam
- Tie-Downs

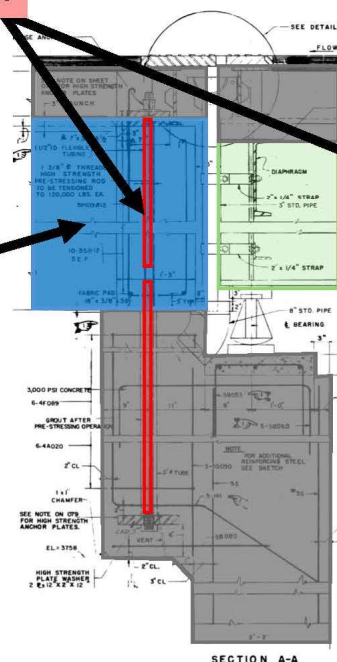
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Evaluation and Repair Timeline

- December 8th / 11th, 2023
 - Multiple failed tie-downs at Piers 6 and 7 supporting the Unbalanced Post-Tensioned Cantilever Concrete Beams identified
 - RIDOT Closed Bridge December 11th, 2023

Failed tie-down

Cantilever PT beam



Evaluation and Repair Timeline

- January 6th – January 16th
 - Continued field investigation during repair activities identifies additional defects at cantilever PT beam ends requiring additional evaluation



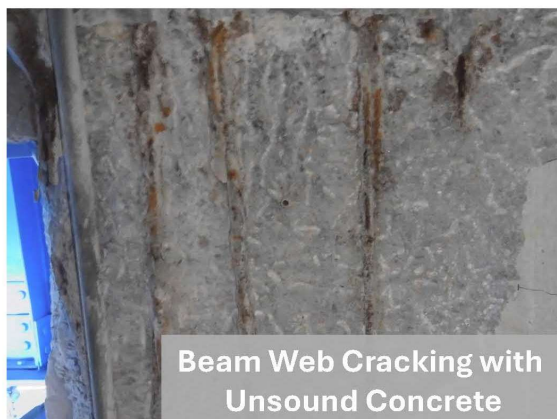
Exposed PT Bearing Plate



Void Below PT Anchor Plate



Exposed PT Anchorage Heads



Beam Web Cracking with Unsound Concrete



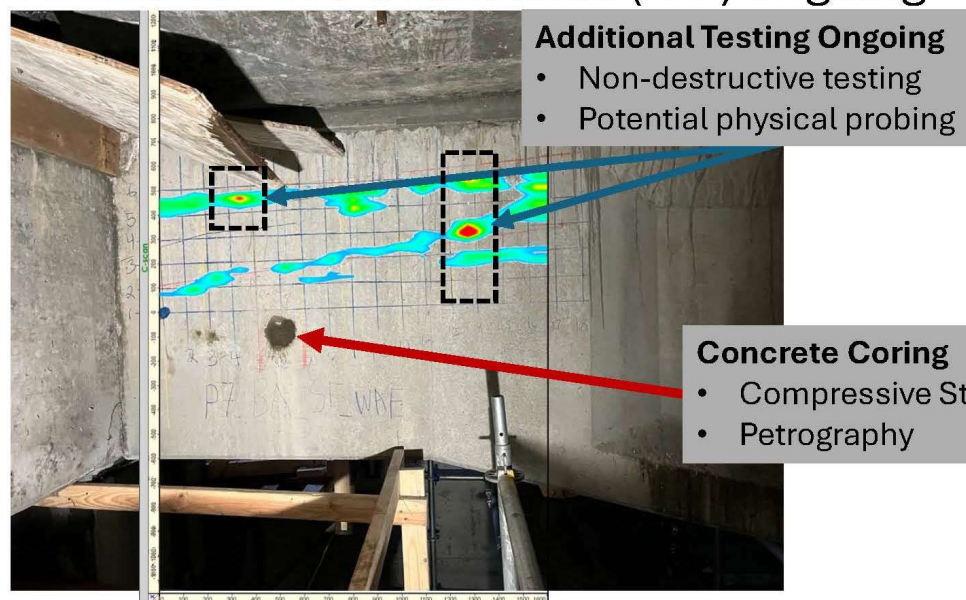
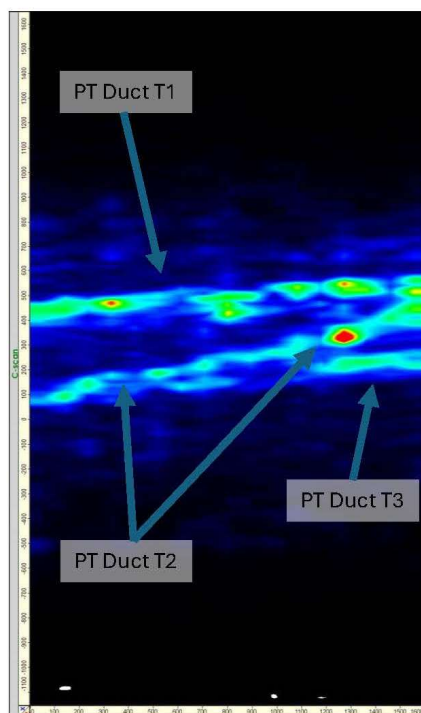
Exposed Grout Port (voids, Suspected "soft grout")

Based on Preliminary Findings
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Preliminary Testing Results

- Pier 7A, Beam A
 - Exterior beam, interior south face shown
- Evaluation of 6 beam lines (A-F) ongoing

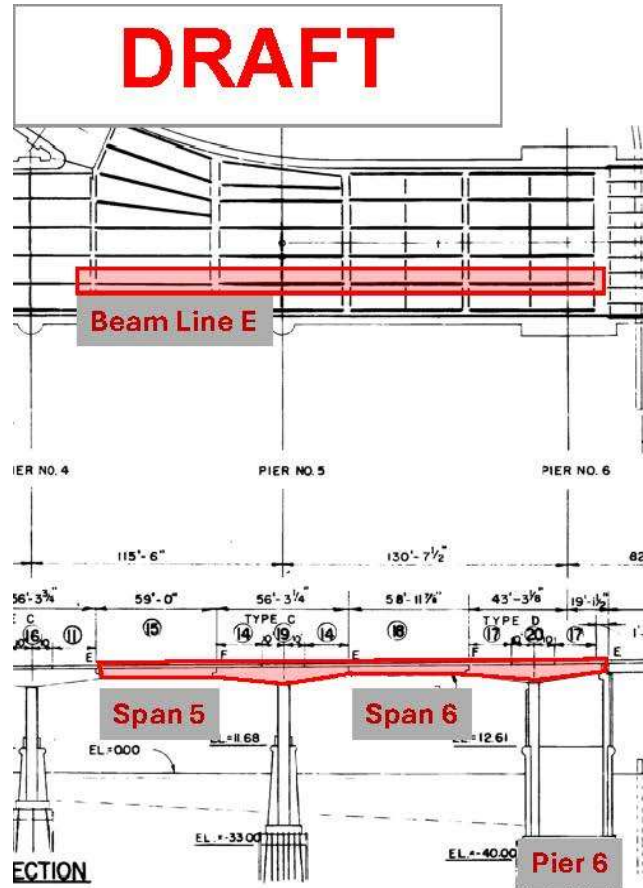


Additional Testing Ongoing

- Non-destructive testing
- Potential physical probing

Concrete Coring

- Compressive Strength
- Petrography



Ongoing Analysis of System

- Incorporation Of Field Data into Model
 - Analytical Model will be updated for
 - Condition of Tendons
 - Condition of Concrete
- Evaluation of Beam E, Spans 5 and 6
 - Results anticipated end of February

Peter Alviti Jr.

Director

      | <https://linktr.ee/ridotnews>

