2023 Interim Repairs: *Three Weekend Closures*



Public Presentation



2022

Agenda

Introductions

BQE 2023 Construction Project Overview

Need for BQE Interim Repairs

Weekend Closures/Detours

Discussions/Action Items





BQE – Project Area









- Safety is our number one priority.
- NYC DOT and outside engineering partners (C2Smart) are closely tracking the city-owned structure to ensure we stay ahead of potential safety issues.
 - In-Person Inspections by DOT Engineers. Quarterly visual inspections detect any localized cracking, concrete spalling, steel corrosion, and other visible flags
 - **Constant Monitoring via Sensors.** Sensors and specialized instruments monitor changes in global stiffness, concrete cracking, and vibrations
 - **Truck Weight Monitoring.** Weigh-In-Motion technology provides real time measurement of truck loads. Automated enforcement starting by early 2023
 - Analysis and Modeling: DOT and outside engineering partners (C2Smart) are using data from monitoring to assess structure's current condition and to model its future condition



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BQE Project Overview

- Components require immediate attention
- Addressing immediate needs will allow us to maintain traffic flow
- Components Requiring Immediate Attention
 - Span 34 (Clark Street)/Clark Street Fan Plant
 - Span 4 (Grace Court)
 - Joralemon Street Garage





BQE – Interim Repair Area Context



Clark Street Fan Plant

- Structural repair inside the chamber that houses the fan plant
- Work is concurrent with planned BQE closures
- Coordination with MTA, which owns fan plant









BQE Atlantic to Sands



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Joralemon Street Garage

- Structural repair inside the chamber that houses the garage
- Work can happen without BQE closures
- Crews can access work area via local street









BQE Repair Challenges



Queens Bound Interim Deck Repair







Queens Bound Interim Repairs at Clark Street



Column & beam repair







Construction Staging



No daytime work

Two level highway restricts areas to shift traffic during construction

B@E



First Weekend Closure

Full closure of all Queens-Bound lanes with BQE traffic to exit at Atlantic Ave

One lane open in the Staten Island Bound direction

Closures between Saturday 2AM to Monday 4AM







Second and Third Weekend Closures

Full closure of all Queens-Bound lanes with remaining BQE traffic to exit at Atlantic Ave

All travel lanes on the Staten Island-Bound direction will be open

Closures between Saturday 2AM to Monday 4AM







Weekend Closures (3 Total, Mar. - Oct.)

- Weekend 1: Queens-bound and Staten Island-bound closures
 - QB: Full Closure
 - SIB: 1 Lane Open
- Preparation Work Continued
- Weekend 2: Queens-bound closure only
 - QB: Full Closure
 - SIB: No Closure
- Preparation Work Continued
- Weekend 3: Queens-bound closure only
 - QB: Full Closure
 - SIB: No Closure

All Weekend Closures

- Entrance ramps along QB will be closed and detour routes will be provided
- Traffic Enforcement Agents (TEA) and Pedestrian Managers will be provided
- Variable message signs (VMS) will be provided in locations approved by EIC
- Prospect Expressway Bus/HOV barrier
- Extensive multi-agency coordination ongoing





Mitigation Measures

Mitigation Measures During Closures

- Press blitz and dialogue w/ industry
- Encourage alternate modes of transportation where possible
- Traffic agents at key intersections
- Pedestrian managers at key locations
- VMS signs informing travelers of closures/detours
- Adjustments to lane configurations
- Turn restrictions at select intersections
- Emergency services stationed at BBP
- Coordination with FDNY/NYPD/EMS
- Noise mitigation
 - · Sound blankets and monitoring sound levels
- Dust mitigation





Weekend 1 Only

Staten Island-Bound Closures

































All 3 Weekend Closures

Queens-Bound Closures



























BQE Interim Repairs Schedule

Information Distribution

NYCDOT will develop and distribute tailored information materials including project one-pagers, presentations, brochures, and construction updates, and distribute them in a variety of ways including through the department website, mass electronic mailings, media posts, and at meetings

•	Last quarter of 2021	.Completion of Contract Documents
•	Third quarter of 2022	Contract Advertised
•	Last quarter of 2022	.Contract Award and NTP



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Construction Duration for Spans 4 & 34

- Overnight closures between March October 2023
- The 3 closure weekends spread out over construction season
- Joralemon Street garage repairs will occur concurrently no BQE closures needed
- More specific schedule will be shared in future as information becomes available





Questions

