Kosciuszko Bridge Project
Stakeholders Advisory Committee Meeting

New York State Department of Transportation
Commissioner Joan McDonald
New Queens-bound bridge built beside existing bridge
Phase 1

Removal of existing bridge, making way for new Brooklyn-bound bridge
All traffic is shifted to new bridge, until Brooklyn-bound bridge is constructed in Phase 2
Phase 2

New Brooklyn-bound bridge constructed beside new Queens-bound bridge
Key Activities since last SAC Meeting

- Progressing final design of the project
- Coordinating with key agencies and private utilities
- Test pits and soil borings to obtain data for design
- Pre-construction condition surveys of buildings
- Restriping beneath the BQE for additional parking
- Revised permit from NYCDOT – WB Meeker Avenue
daytime operations and single lane closure
Key Activities since last SAC Meeting

- Removal of buildings and relocation of utilities
- Local street realignment and reconstruction
- Drilling shafts for Main Span pylon (or tower)
- Assembly and installation of rebar cages
- Driving test piles for Approach foundations
Collaboration with NYPD to “Move Traffic”

- Communication with local Police Precincts 108 & 94
- Coordination with NYPD Community Liaisons
- Truck enforcement on local streets
- Traffic Enforcement Agents
- Coordination and implementation of traffic management measures
- Deliveries to work site
Phase 1 Project Components
# Phase 1 Work Schedule

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
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<td>QUEENS APPROACH</td>
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<td>MAIN SPAN</td>
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<tr>
<td>FULL TRAFFIC SWITCHOVER ON TO NEW BRIDGE</td>
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<td>REMOVAL OF EXISTING APPROACHES/MAIN SPAN</td>
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<tr>
<td>DEMOBILIZATION FROM SITE</td>
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<td>CONTRACT COMPLETION</td>
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</table>

- **Completed**
- **Ongoing/Upcoming**
Clearing Right of Way on State-Owned Property

Building Removal
Clearing Right of Way on State-Owned Property

Building Removal
Clearing Right of Way on State-Owned Property

Billboard Removal
Realigning and Reconstructing Local Streets
Utility Work – Gardner Ave in Brooklyn

Relocating overhead electrical utilities underground (shown).
Completed installation of water main, gas, and communication lines.
Upcoming drainage work.
Utility Work - 56th Road in Queens

Relocating overhead electrical utilities underground.
Schematic of Drilled Shaft Foundation for Pylons

Drilled Shaft Foundation for Pylon (or tower)
1. Install 8.5’ diameter temporary casing.
2. Drill shaft to bedrock.
3. Install 7’ diameter permanent casing.
4. Place grout plug.
5. Place annulus grout.
6. Remove temporary casing.
7. Drill 6.5’ diameter rock socket.
8. Set & splice rebar cage.
9. Place shaft concrete.
10. Perform post pour tests (O-Cell, CSL, TIP) as required.
Drilling Shafts for Main Span Pylon
Setting Drilled Shaft Casings
Assembling Rebar Cages for Drilled Shafts
Lifting Rebar Cages for Drilled Shafts
Setting Rebar Cages for Drilled Shafts
Pouring Concrete for Drilled Shafts
Pouring Concrete for Leveling Slab 3/16/15
Rebar Footings
Example of Rebar Installation for a Main Span Pylon
Example of Construction of a Main Span Pylon
Driving Piles for Approach Foundations
Establishing Work Zone on WB Meeker Avenue
Removing Brick Veneer on Bklyn Connector
Removing Fascia Wall on Bklyn Connector
Removing Fascia Wall on Bklyn Connector
Brooklyn Connector Cross Section

MEEKER AVENUE WB & EB
(EAST OF MORGAN AVE)
Brooklyn Connector on Fill Cross Section

MEEKER AVENUE WB & EB
(EAST OF MORGAN AVE)
BQE Lane Closures and Shifts
BQE Lane Closures and Shifts

EB BOE at STA 11+08 - Stage 2B

WB BOE at STA 11+08 - Stage 2B

Truck Lane

[Diagram showing lane closures and shifts]

= Work Zone
BQE Lane Closures and Shifts

- Work Zone

**EB ROE at STA 1.1+08 - Stage 3A**

**EB ROE at STA 1.1+08 - Stage 3B**

- Truck Lane

- **NY WORKS**
- **Department of Transportation**

[Diagram of BQE lane closures and shifts with marked truck lanes and work zones]
New BQE Connector Construction
Restriping Pavement on BQE
Setting Barrier for Traffic Shift on BQE
Scope of Brooklyn Work

Current and Upcoming:

1. Utility Work (underway)
2. Brooklyn-Queens Expressway Construction (underway)
3. Brooklyn Connector (underway)
4. Cherry Street Realignment (underway)
5. Local Street Reconstruction in 2017
Utility Work – Brooklyn
Brooklyn Connector – Step 1

- **Cross section of temporary work zone on EB Meeker Ave east of Morgan Ave. Details on next slide.**
- **Temporary restriping on EB Meeker Ave between Kingsland and Porter Avenues. Set up concrete barrier and sidewalk barrier on portion of existing sidewalk. Relocation of overhead lighting, fire hydrants, and temporary paving. This creates a new lane on EB Meeker. Traffic will be shifted in Step 2.**
- **Restriping at Vandervoort Ave to shift lanes to the left, or west side of the avenue, to create a work zone east of Vandervoort Ave next to Sgt Dougherty Park.**
- **Existing Cherry Street is now closed, east of Porter Ave, for utility work.**
- **Restriping a portion of EB and WB BQE and working on EB BQE mainline work zone. Shifting lanes during night hours from existing three lanes to one lane in each direction.**
- **Temporary concrete barrier placed around Sgt. Dougherty Park to set up work zone for utility work and roadway work in realigned Cherry Street.**
- **Removal of Buildings (completed) to make way for new BQE alignment and new Cherry Street, which will shift south and away from the residential area.**

<table>
<thead>
<tr>
<th>Brooklyn Connector</th>
<th>October</th>
<th>November</th>
<th>December</th>
<th>January</th>
</tr>
</thead>
<tbody>
<tr>
<td>Utility Work</td>
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<tr>
<td>Roadway Work - Temporary</td>
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</tbody>
</table>
Brooklyn Connector – Steps 2 and 3

Cross section of temporary work zone on EB Meeker Ave east of Morgan Ave. Details to follow.

With community support, we obtained permit to work during daytime; reduce WB Meeker Ave to one lane from Vandervoort Ave to Sutton Street for approx. six months.

Build retaining wall at underpass west of Vandervoort Ave.

Work zone on Cherry Street for utilities relocation to make way for new bridge Approach construction.

Installation of utilities on new Cherry Street alignment. Reconstruction of east portion of Vandervoort Ave. The new utilities include: gas, electric, telephone, sanitary, and water. This will require a partial Anthony Street closure for utility and roadwork construction.

Building removal (completed) of State-owned property to make way for new bridge construction.

<table>
<thead>
<tr>
<th></th>
<th>January</th>
<th>February</th>
<th>March</th>
<th>April</th>
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<tr>
<td>Utility Work</td>
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<tr>
<td>BQE Removal</td>
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<tr>
<td>BQE Walls and Backfill</td>
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</tbody>
</table>
Traffic Detoured from NB Vandervoort Avenue

VPH = Vehicles per hour
% Increase to Detour = the amount of traffic percentage change added to Morgan Avenue during the detour.

**Temporary Traffic Light**

**Legend**
- EXISTING TRAFFIC PATTERN
- PRIMARY DETOUR ROUTE (FULL SIGNS)
- SECONDARY DETOUR ROUTE (LIMITED SIGNING)

**Notes:**
1. Pedestrian access will remain open on the west side of Vandervoort under the bridge.
Traffic Detoured from SB Morgan Avenue

Traffic Detoured from SB Morgan Avenue

VPH = Vehicles per hour
% Increase to Detour A = the amount of traffic percentage change in left turning volume, WB Meeker to SB Kingsland.

<table>
<thead>
<tr>
<th>Time</th>
<th>Existing Demand</th>
<th>Detour A</th>
<th>Detour B</th>
<th>Detour C</th>
<th>Other</th>
<th>% Increase to Detour A</th>
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<tbody>
<tr>
<td>AM</td>
<td>75 VPH</td>
<td>29 VPH</td>
<td>23 VPH</td>
<td>8 VPH</td>
<td>15 VPH</td>
<td>46%</td>
</tr>
<tr>
<td>MIDDAY</td>
<td>84 VPH</td>
<td>32 VPH</td>
<td>24 VPH</td>
<td>9 VPH</td>
<td>20 VPH</td>
<td>29%</td>
</tr>
<tr>
<td>PM</td>
<td>91 VPH</td>
<td>37 VPH</td>
<td>31 VPH</td>
<td>11 VPH</td>
<td>12 VPH</td>
<td>54%</td>
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Temporary Traffic Light

Maspeth Avenue
Brooklyn Connector – Step 4

- **WB Meeker Ave**: On EB Meeker Ave we continue with daytime lane closures.
- **Fill Retaining Wall and start to build BQE structures**
- **Temporary ramp to EB BQE off the new Cherry Street alignment.**
- **Remainder of existing Vandervoort Ave will be closed and reconstructed including remaining utility and drainage work. This requires Anthony Street closure.**

### Work Zone - Completed

<table>
<thead>
<tr>
<th>Brooklyn Connector</th>
<th>May 2015</th>
<th>June 2015</th>
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<tbody>
<tr>
<td>Utility Work</td>
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<tr>
<td>BQE Walls and Backfill</td>
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<tr>
<td>Roadway Work - Permanent</td>
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<tr>
<td>BQE Structures</td>
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</tbody>
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Brooklyn Connector – Step 5

**WB Meeker Ave**
- WB Meeker Ave will be reopened to two travel lane operations.

**EB Meeker Ave**
- The realigned EB Meeker Ave roadway and the new Cherry Street will be opened.
- The new EB Meeker Ave and the new BQE alignment is visible – shifting away from the residential area. This allows for the BQE paving and construction of new bridge.

**Morgan Ave**
- BQE Structures under the BQE

**Vandervoort Ave**
- Vandervoort Ave is reopened, and there is now a temporary On-ramp to the Queens-bound (EB) BQE.

<table>
<thead>
<tr>
<th>Brooklyn Connector</th>
<th>July</th>
<th>August</th>
<th>September</th>
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<tbody>
<tr>
<td>Utility Work</td>
<td>2015</td>
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<tr>
<td>BQE Walls and Backfill</td>
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<tr>
<td>Roadway Work – Permanent</td>
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<tr>
<td>BQE Structures</td>
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<tr>
<td>BQE Paving</td>
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**NY Works**

**Department of Transportation**
Scope of Queens Work

Current and Upcoming:

1. Utility Work (underway)
2. Queens Approach Construction (underway)
3. Queens Connector – BQE/LIE Interchange Reconstruction
Utility Work - Queens
Utility Work - Queens

Laurel Hill Blvd
Water, Drainage
Water
Drainage
43rd Street
5th Avenue
5th Road
Queens Connector – BQE/LIE Interchange
April 2015 – December 2016

Blue area indicates SKE work area limits for Queens Connector connecting to the LIE Interchange (gray area).

Permanent work
Temporary ramps

BQE
LIE
New Pedestrian Bridge
### Queens Connector – Stage 1

**Stage 1 - Queens Connector - Superstructure**

<table>
<thead>
<tr>
<th>Activity</th>
<th>April 2015</th>
<th>through</th>
<th>March 2016</th>
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<tr>
<td>Remove Existing BQE Median Barrier 54th Rd to East of LIE</td>
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<tr>
<td>Restripe, Set Temporary Barrier, Shift WB and EB BQE traffic</td>
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<tr>
<td>Shift Laurel Hill Blvd Traffic to Temporary Alignment</td>
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<tr>
<td>Shift 43rd Street Ramp and EB LIE to WB LIE</td>
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<tr>
<td>Construct Retaining Wall along Laurel Hill Blvd.</td>
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<tr>
<td>Construct Temporary Pavement, EB BQE at 54th Ave to LIE ramp</td>
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<td></td>
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<tr>
<td>Construct Temporary Pavement, WB LIE to WB BQE</td>
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<tr>
<td>Construct Retaining Walls</td>
<td></td>
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<tr>
<td>Construct Bridge over 54th Rd and 54th Avenue</td>
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<tr>
<td>Construct Temporary Pavement, EB LIE to EB BQE</td>
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<tr>
<td>Construct Temporary Paving on WB LIE to WB BQE</td>
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**Diagram:**
- BQE
- LIE

**Legend:**
- Work Zone
- Temporary
Queens Connector – Stage 2

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<th>Stage 2 - Queens Connector - Substructure</th>
<th>December through August</th>
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<tr>
<td>54th Ave North Wing Wall</td>
<td>2015</td>
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<tr>
<td>Remove Portion of BQE over 54th Avenue</td>
<td>2015</td>
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<tr>
<td>Construct Retaining Wall along 54th Avenue</td>
<td>2015</td>
</tr>
<tr>
<td>Construct Portion of WB LIE to WB BQE Ramp</td>
<td>2015</td>
</tr>
<tr>
<td>Construct Portion of EB LIE to WB BQE Ramp</td>
<td>2015</td>
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<tr>
<td>Main Line BQE EB and WB</td>
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Work Zone | Completed | Temporary
Queens Connector – Stage 3

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<th>Stage 3 - Queens Connector - Superstructure</th>
<th>September through March 2016</th>
<th>March 2017</th>
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<tr>
<td>Construction of Laurel Hill Blvd Ramp</td>
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<tr>
<td>EB LIE to WB BQE Ramp</td>
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<tr>
<td>43rd Street Ramp</td>
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<tr>
<td>WB LIE to WB BQE Ramp</td>
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<tr>
<td>EB BQE to EB LIE Ramp</td>
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### Queens Connector – Stage 4

#### Stage 4 - Queens Connector - Superstructure

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<th>Roadway</th>
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<td>November through March 2016 2017</td>
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<tr>
<td>43rd Street Ramp</td>
<td>Work Zone</td>
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<td>Temporary</td>
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<tr>
<td>Main line EB BQE to EB LIE Ramp</td>
<td>Work Zone</td>
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<td>Pedestrian Bridge</td>
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<td>EB LIE to WB BQE Ramp</td>
<td>Work Zone</td>
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<td>Temporary</td>
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<tr>
<td>43rd Street Ramp</td>
<td>Work Zone</td>
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<td>Temporary</td>
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<tr>
<td>WB LIE to WB BQE Ramp</td>
<td>Work Zone</td>
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<tr>
<td>WB BQE Ramp</td>
<td>Work Zone</td>
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Queens Connector – Stage 5

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<tr>
<td>Remove Existing Bridge</td>
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<tr>
<td>Reconstruct 54th Ave and 54th Road</td>
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<tr>
<td>Complete Construction of BQE Median from 54th Road to LIE</td>
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<tr>
<td>Resurface Laurel Hill Blvd. and 56th Road</td>
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</tbody>
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- **BQE**
- **LIE**
- **New Pedestrian Bridge**
Queens Connector – Stage 6/Completed

BQE

LIE

New Pedestrian Bridge

November 2017
Completed
New Sergeant Dougherty Park
Streetscaping Improvements on Local Streets

concepts for new streetscaping
New Streetscaping Opportunities
WB Meeker Ave between Apollo and Van Dam Streets

Proposed Dimensions:
• 180' x 200' x 23'
• 100' x 150' x 140'
New Streetscaping Opportunities
WB Meeker Ave between Hausman and Apollo Streets

Proposed Dimensions: 20’ x 65’
New Streetscaping Opportunities
Vandervoort Ave between Anthony St and EB Meeker Ave

Proposed Dimensions:
125’ x 25’ x 115’
New Streetscaping Opportunities – Queens
New Streetscaping Opportunities – Queens

Laurel Hill Blvd
New Streetscaping Opportunities – Queens
43rd Street

Shared-Use Path (Phase 2)

I-278

54th Drive

54th Road

43rd Street

54th Avenue
Contacts and Notifications

1. Community Liaison: Christine Holowacz
   Phone: 347-988-4412
   Email: Kosciuszko@dot.ny.gov

2. Website for Construction Updates and Notices: www.dot.ny.gov/kbridge

3. Twitter: https://twitter.com/NYSDOT_NYC

4. New York State Travel Information: www.511NY.org or call 511
Project Offices

Kosciuszko Bridge Queens Field Office & Community Liaison Office
35-18 Laurel Hill Boulevard (under the existing bridge)

Kosciuszko Bridge Brooklyn Field Office
Stewart Avenue & Thomas Street (under existing bridge)

Kosciuszko Bridge Community Liaison Office
310 Nassau Avenue, Suite 202

Queens

Brooklyn
Transforming the Skyline