Existing Conditions
Existing Parkway Conditions

Replacement of the Crane Road Bridge

GREENBURGH

WATER MAIN

SEWER

SCARSDALE STATION

CRANE RD.

POPHAM RD.

SCARSDALE

EXISTING BRIDGE
Existing Structural Conditions

Replacement of the Crane Road Bridge

- Historically Significant Bridge Designed by Delano & Aldrich Architects & Constructed in 1924
- Bridge is in Poor Condition
Existing Structural Conditions

Replacement of the Crane Road Bridge

- Bridge Designed by Delano & Aldrich Architects & Constructed in 1924
- Bridge is in Poor Condition
- Outdated Bridge Type
Replacement of the Crane Road Bridge

Existing Structural Conditions

- Temporary Repairs to Maintain Traffic
- Short Term Lane Closures
- Costly
Preferred Alternative
Preferred Alternative – Concept Plan

Replacement of the Crane Road Bridge

- 4 TRAVEL LANES MAINTAINED ON EXISTING BRIDGE
- NEW PARALLEL BRIDGE CONSTRUCTED
- EXISTING BRIDGE DEMOLISHED
Preferred Alternative
Replacement of the Crane Road Bridge

- Eliminates Structural Deficiencies in the Bridges
- Improves Traffic Operation and Safety Deficiencies
- Maintains Traffic on Parkway
- Enhances Pedestrian Access to BRPR & SB Metro-North Train Platform

- Construction Duration – 34 Months
- Construction Cost - $39,425,000
Rendering – Elevation View
Replacement of the Crane Road Bridge
Rendering – Elevation View
Replacement of the Crane Road Bridge
Design & Construction Schedule
Replacement of the Crane Road Bridge

• Final Design Commenced – February 2010
• Plans Submitted to NYSDOT for Approval – Aug 2011
• Advertisement – November 2011
• Bids Received – January 2012
• Contract Award – April 2012
• Construction Start – May 2012
  • Construction Duration – 34 Months
• Construction Completion – February 2014
Next Steps
Construction Schedule

Replacement of the Crane Road Bridge

- Stage 1 – 10 Months
  - Major Activities
    - Construct Piers 4, 5 & 6 (& Superstructure) of Mushroom Bridge & Construct Southern ½ of Railroad Bridge
  - Ramp Closures
    - Pipeline Rd Entrance to SB BRP Closed
  - BRP
    - 2 lanes NB & 2 Lanes SB
Construction Schedule

Replacement of the Crane Road Bridge

- Stage 2 – 6 Months
  - Major Activities
    - Construct Piers 2 & 3 (& Superstructure) of Mushroom Bridge
  - Ramp Closures
    - Pipeline Rd Entrance to SB BRP Closed
    - NB BRP Exit to Crane Road Closed
    - SB BRP Exit to Crane Road Closed
  - BRP
    - 1 lane NB (no signal) & 2 Lanes SB
Construction Schedule
Replacement of the Crane Road Bridge

• Stage 3 – 6 Months
  • Major Activities
    • Construct Pier 1 (& NB ½ of Superstructure) of Mushroom Bridge
  • Ramp Closures
    • Pipeline Rd Entrance to SB BRP Closed
    • NB BRP Exit to Crane Road Closed
    • SB BRP Exit to Crane Road Closed
  • BRP
    • 1 lane NB (no signal) & 1 Lane SB
Construction Schedule

Replacement of the Crane Road Bridge

- Stage 4 – 12 Months
  - Major Activities
    - Complete Mushroom Bridge, Demolish Existing Bridges, Construct Northern ½ of Railroad Bridge
  - Ramp Closures
    - Pipeline Rd Entrance to SB BRP Closed
    - NB BRP Exit to Crane Road Closed
    - SB BRP Exit to Crane Road Closed
  - BRP
    - 1 lane NB (no signal) & 1 Lane SB
• Detours

  • Limited BRP Midday Closures - 10 AM to 2 PM
    • Harney Rd to Crane Rd
      • via Scarsdale Ave & East Parkway
      • One direction at a time (police control at key points)

  • Night & Weekend BRP Closures
    • 10 PM Friday to 6 AM Monday
    • Via Sprain Brook Parkway & Rt. 100 to County Center
    • One Direction or Both Directions may be closed