Project Update as Construction Commences

Replacement of

THE CRANE ROAD BRIDGE

May 1, 2012
Existing Conditions
Existing Parkway Conditions

Replacement of the Crane Road Bridge
Replacement of the Crane Road Bridge

Existing Structural Conditions

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

Existing Structural Conditions

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- Outdated Bridge Type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

Replacement of the Crane Road Bridge

- 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
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
• 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
Construction Schedule
Replacement of the Crane Road Bridge

• 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
Pipeline Road Detour

Replacement of the Crane Road Bridge

NOTES:
1. ADJACENT DRIVE/Pipeline ROAD DETOUR AS SHOWN ON PLANS UNLESS OTHERWISE DIRECTED BY THE ENGINEER, SHALL BE IN PLACE FOR THE FULL DURATION OF CONSTRUCTION.
2. ALL SIGN LOCATIONS TO BE APPROVED BY THE ENGINEER.
3. ALL TYPE I BARRIERS TO HAVE LOW INTENSITY BEACONS. ITEM 819.0A
Local Detour

Replacement of the Crane Road Bridge
Local Detour

Replacement of the Crane Road Bridge

NOTES:
1. For local detour closure notes refer to DWG M-18.
2. For general notes refer to DWG M-1.
3. For local detour closure notes refer to DWG M-2.
4. Sign locations as shown on plans are approximate. The contractor shall install signs in accordance with the codes, rules and regulations of the National Manual on Uniform Traffic Control Devices for Streets and Highways, latest edition with New York State supplements.

LEGEND:
- = DETOUR ROUTE
- = VARIABLE MESSAGE SIGN

RECORD DRAWING CERTIFICATION

REVISION: M-30

WESTCHESTER COUNTY, NEW YORK
DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION
DIVISION OF ENGINEERING

REPLACEMENT OF STRUCTURES CARRYING THE BRONX RIVER PARKWAY OVER THE BRONX RIVER AND THE METRO-NORTH RAILROAD

JUNE 2011

STANTOCAL

Sheet No: 46 of 274
Night-Weekend Detour
Replacement of the Crane Road Bridge
Night-Weekend Detour
Replacement of the Crane Road Bridge

NOTES:
1. SIGN LOCI/LOCATIONS AS SHOWN ON PLANS ARE APPROXIMATIONS. THE CONTRACTOR SHALL
INSTALL SIGNS IN ACCORDANCE WITH THE CITY’S SIGNIFICATION AND REGULATIONS OF THE
MOTORIST MANUAL. 2D UNIFORM PARKING CONTROL SIGNS FOR SPEED LIMITS TO BE PLACED
IN CONFORMITY WITH NEW YORK STATE REQUIREMENTS.
2. FOR ADDITIONAL FULL-TIMING DETOUR NOTES REFER TO DIME M-31.
3. FOR ADDITIONAL WORKING DRAWINGS SEE DIME M-31.

LEGEND:

\[\text{Diagram with detour signs and road markings}\]
Night-Weekend Detour
Replacement of the Crane Road Bridge

NOTES:
1. All locations as shown on plans are approximate. The contractor shall install signs in accordance with the Code and Regulations of the National Manual on Uniform Traffic Control Devices (US DOT FHWA) for Streets and Highways latest edition with New York State supplements.
2. For additional full project Detour Notes refer to Figure V-2.
3. For additional Detour Details, see Enc. W-1.

LEGEND:
A. Temporary Traffic Control Signs
   - Detour Route
   - Right Ahead
   - Right Ahead - Truck Route
   - Variable Average Speed
   - Flashing Amber Panel

PROJECT COORDINATE:
Westchester County, New York
Department of Public Works and Transportation
Division of Engineering

AS BUILT
AS BUILT: NO CHANGES
Night-Weekend Detour
Replacement of the Crane Road Bridge

NOTES:
1. LOCAL Parkway Entrance Detour Closing @ 8:00 PM. All W-315 will be implemented in
   conjunction with full closures while work is underway. Delayed plans (8:00 PM to
   5:00 AM), local, off-peak hour traffic will be prohibited to use the ramp from
   Palmer Avenue to Westchester Avenue and down Crane Road. Entrants from Crane Road
   will have no access to Palmer Avenue. See Note 4.
2. Sign Listing at section on plans are approximate. All Closures/Phases will be
   scheduled in accordance with the guidelines, rules, and regulations of the
   NYS DOT. Local, off-peak hour traffic will be prohibited to use the ramp from
   Palmer Avenue to Westchester Avenue and down Crane Road. Entrants from Crane Road
   will have no access to Palmer Avenue. See Note 2.
3. For additional Information, refer to page 2.
4. For additional advance warning, see WMN.

LEGEND:
- Temporary Traffic Control Signs
- Detour Sign
- PHH
- Traffic Control
- Night Driving Priority Roadway Traffic Control
- Warning for Public Safety
- Shadow Indention with Placard Mounted Advisory
- Temporary Traffic Control

DETOUR @ PAXTON STREET
DETOUR @ QM STREET
DETOUR @ SCARSDALE ROAD
DETOUR @ THOMPSON STREET

Westchester County, New York
Department of Public Works and Transportation
Division of Engineering
Replacement of / Stretcher Straight-Through Route
WY-522 on the Crane Road
Project Date: 5/25/2024
Project No: 03-2021
Project Code: 19-40-000-00-00

Stantec