

Manhattan Bridge Cable Rehabilitation Contract #14

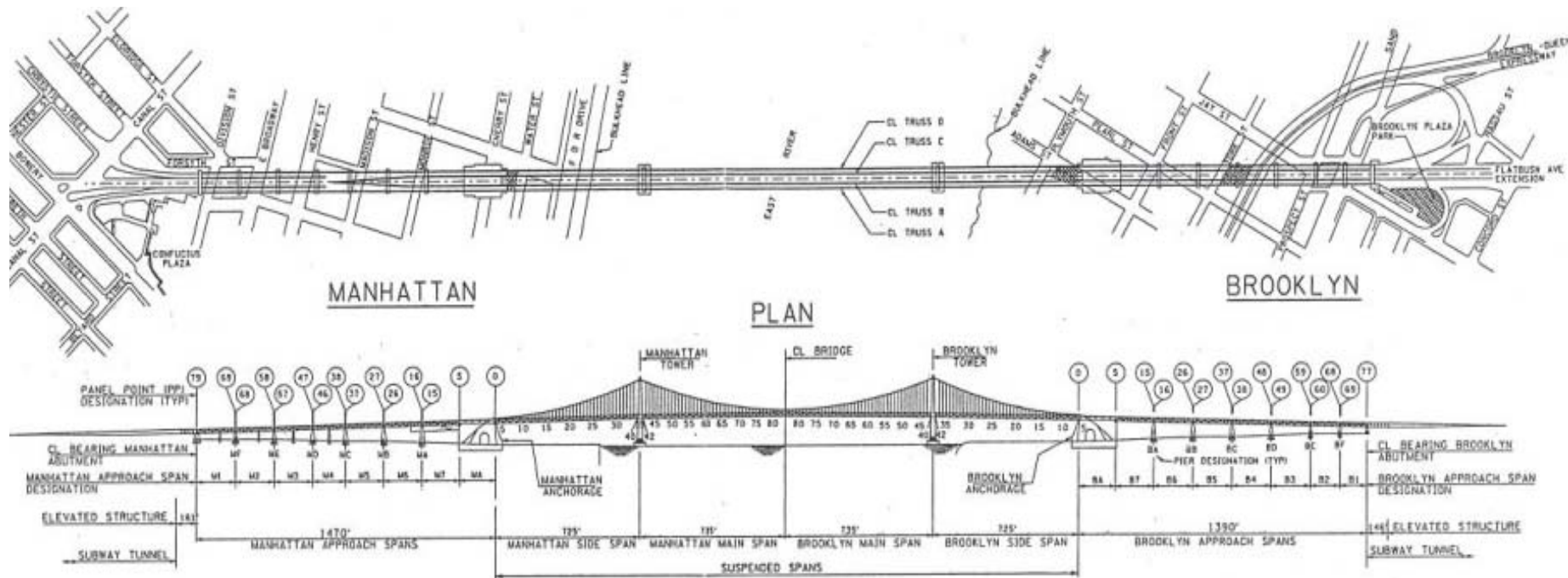
Presentation to Brooklyn Community Board 2 Transportation Committee – June 15, 2010



Project Team

- NYC DOT Division of Bridges – East River Bridges
 - Designer and CSS: Weidlinger Associates
 - Contractor: Skanska Koch
 - Resident Engineering Inspection Consultant: Greenman-Pedersen
 - Community Outreach: Sam Schwartz Engineering

General Plan and Elevation



5,800 feet long, abutment to abutment

Suspended spans 2,920 feet

Daily Traffic on Manhattan Bridge

- 75,000 vehicles on 7 lanes, 3 roadways
- 320,000 transit riders on four tracks
- 3,000 cyclists on Class 1 bikeway



Project Time Line

- Contract Awarded: October 16, 2009
- Notice-to-Proceed Date: December 28, 2009
- Anticipated Completion for Substantial Replacement of Suspenders: December, 2012
- Anticipated Project Completion Date: June, 2013

General Scope of Work

TASK A - MAIN CABLE REWRAPPING

- Removal of Existing Cable Wrapping Wires and Red Lead Paste
- Repair of Existing Cable Wires
- Rewrapping of Cable with New Galvanized Wires and grease as paste
- Installation of Cableguard

TASK B – REPLACEMENT OF SUSPENDER ROPES

- Removal of Suspenders and Continuity Plates at Lower Chord
- Installation of New Suspenders at Upper and Lower Chords
- Installation of New Continuity Plates at Lower Chord

TASK C – REPLACEMENT OF NECKLACE LIGHTING

- Installation of New Necklace Lighting
- Replacement of Cable Hand Ropes

TASK D – INSTALLATION OF ACCESS PLATFORMS AT TOWERS

TASK E – REVERSAL OF LOWER ROADWAY AND OPERATION OF HOV LANE (NUR).

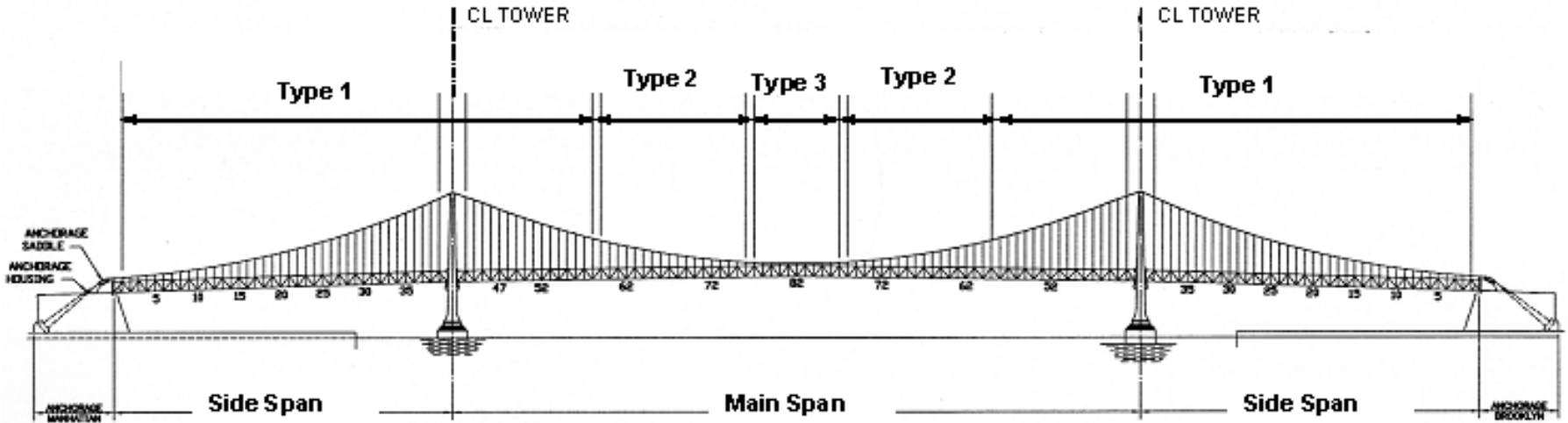
TASK F – REPLACEMENT OF BEARINGS at TRUSSES C & D

- Replace Multi-Rotational Bearings at Truss C and D at Towers

TASK G – REPLACEMENT OF SOUTH UPPER ROADWAY LIGHTING

TASK H – MISCELLANEOUS

Suspender Replacement

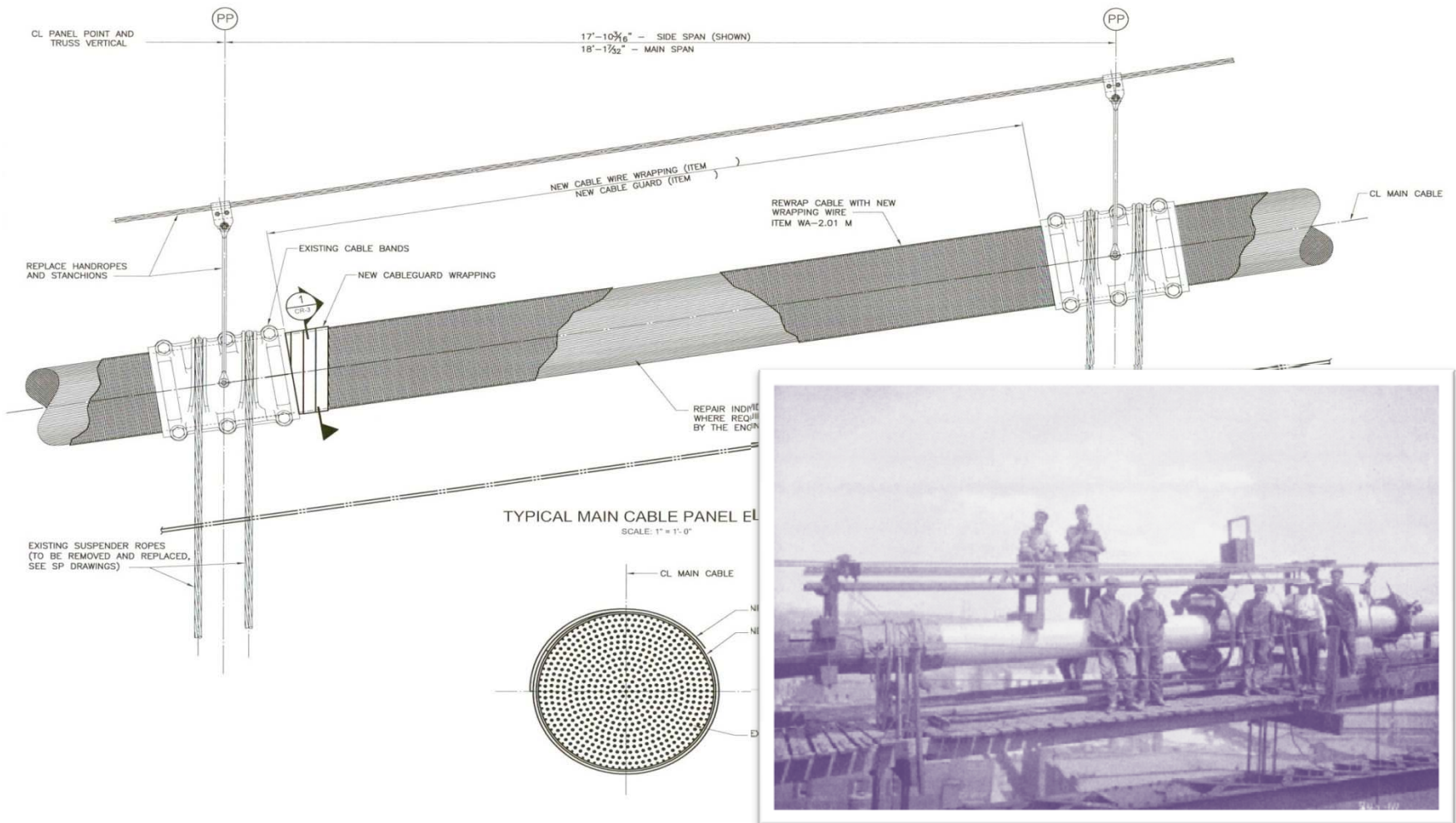


CABLES AND SUSPENDERS (INNER & OUTER TRUSS)

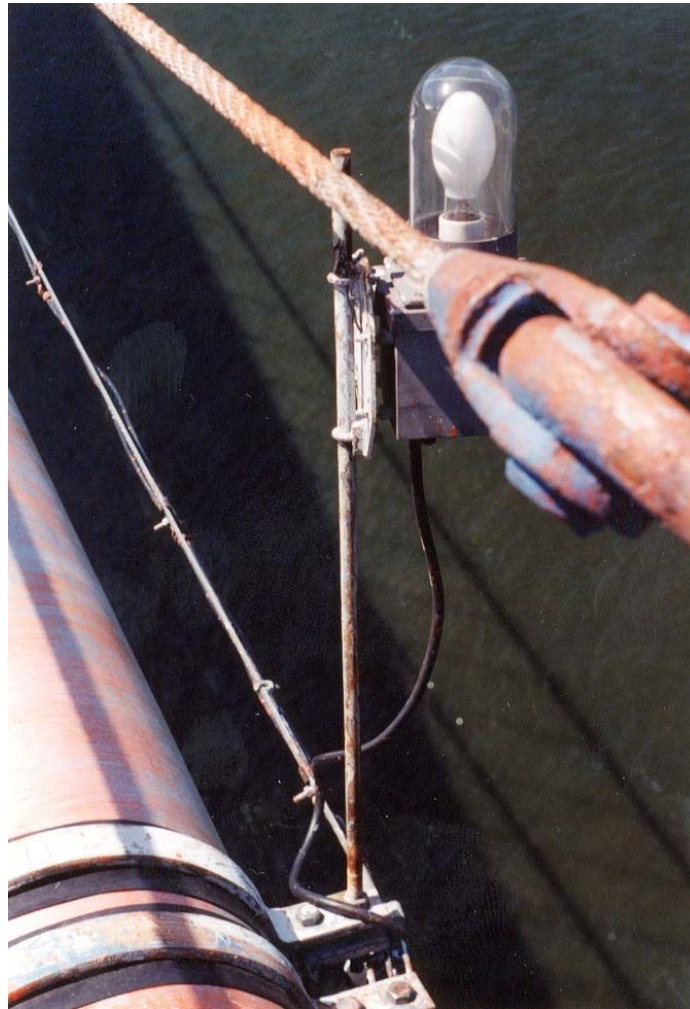
Number of Suspenders on Bridge: 628 units

Date of last replacement: 1955

Cable Rewrapping and Suspender Replacement



Hand Rope and Necklace Light Replacement



Manhattan Bridge - Contract 14

Lower Roadway Reversal and HOV Maintenance



Manhattan Bridge - Contract 14

Community Impacts

- 24/7 closure of one lane on the lower roadway (*except...* during Brooklyn Bridge Contract #6 closures)
- Off-peak lane closures on upper roadways
- Bikeway and walkway detours
- Service interruptions on D train for 2 weekends
- Necklace lighting outages

Construction Lane Closures

One lane of Lower Roadway closed 24/7 *unless...*

Brooklyn Bridge inbound closed (nights and weekends only)

Week Days

- One Upper Roadway lane closed off-peak
- AM rush- 4 lanes inbound, 2 lanes outbound
- PM rush- 4 lanes outbound, 2 lanes inbound

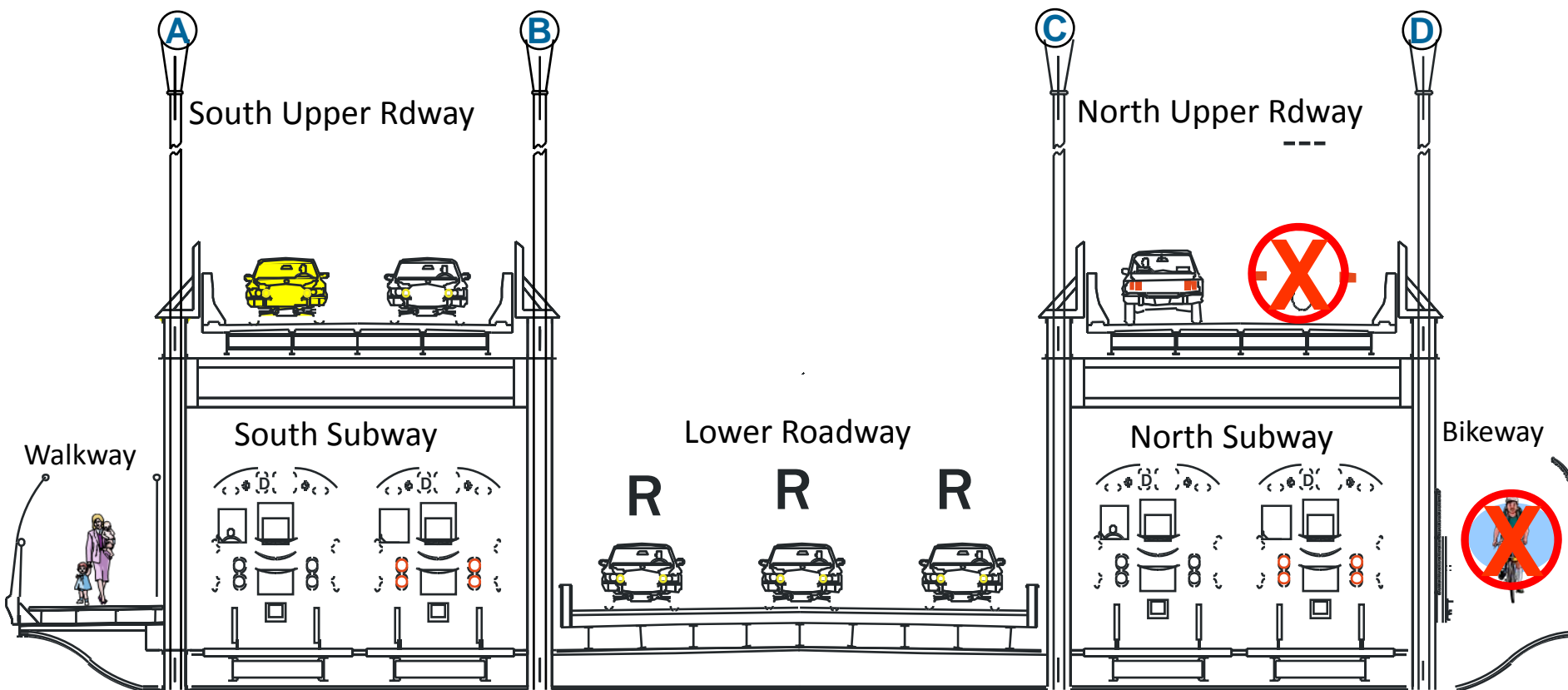
Weekends

- Minimum of 2 lanes inbound and outbound

Manhattan Staging Area

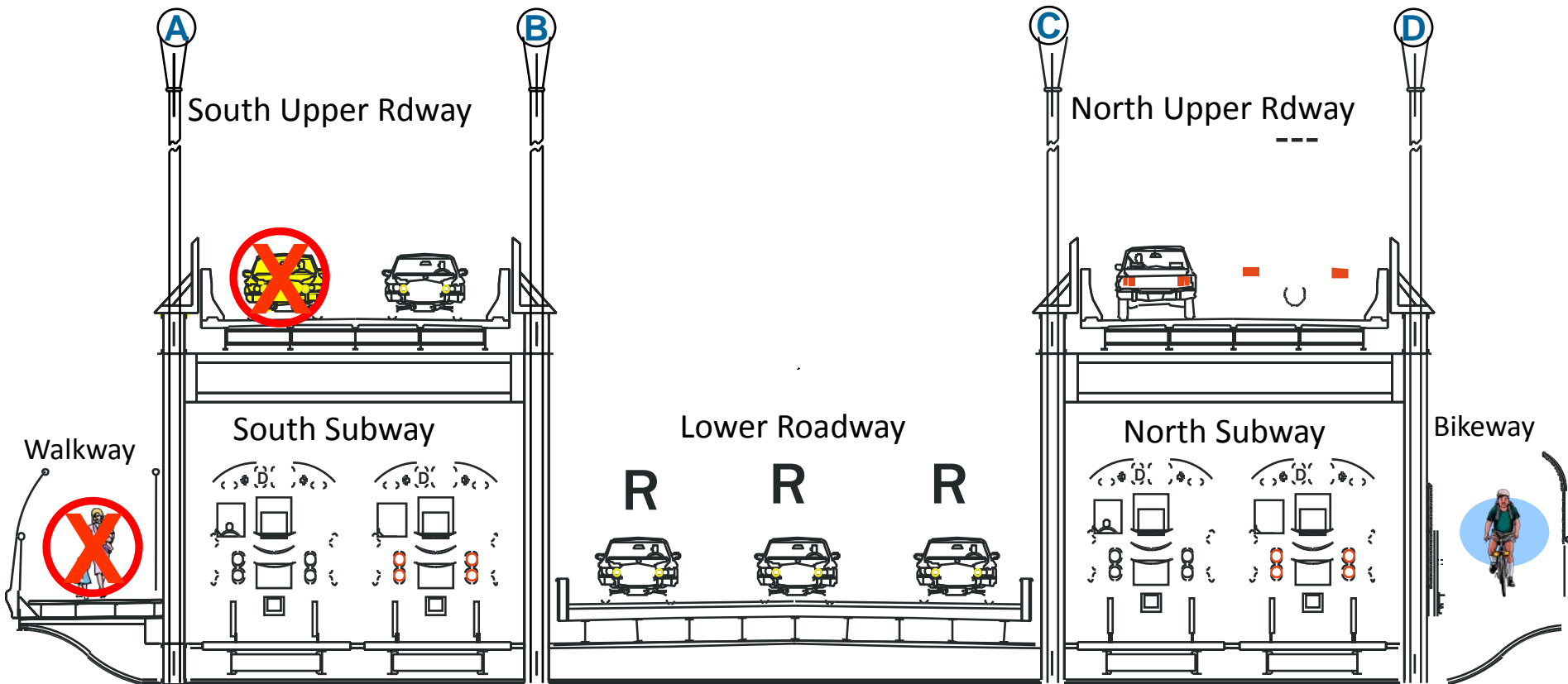


Construction Staging-Cable D



- Erect Temporary Work Platforms
- Cable Rewrapping – Cable D
- Suspender Replacement – Cable D

Construction Staging-Cable A



- Erect Temporary Work Platforms
- Cable Rewrapping – Cable A
- Suspender Replacement – Cable A

Project Contact Information

Teresa Toro, Community Liaison (347) 325-1622

manhattanbridgeoutreach@gmail.com

Emergency Contact: 911

Non-Emergencies: 311 (*refer to Manhattan Bridge Contract #14*)

Questions?

