

**METROPOLITAN TRANSPORTATION AUTHORITY (MTA)**  
**NOTICE OF PUBLIC HEARING AND DESCRIPTION OF PROJECTS**

**Thursday, January 15, 2020**  
**4:30 P.M.**  
**3 Stone Street**  
**NYCT Bid Reception Area**  
**New York, NY 10004**

**Request for Federal Financial Assistance**

**Under the Federal Transportation Authorization**

**For**

**Federal Fiscal Year 2020**

**Capital Improvement Projects**

**For**

**NEW YORK CITY TRANSIT AUTHORITY (NYCTA)**  
**MANHATTAN AND BRONX SURFACE TRANSIT OPERATING AUTHORITY**  
**(MaBSTOA)**

**THE LONG ISLAND RAIL ROAD COMPANY (LIRR)**

**METRO-NORTH COMMUTER RAILROAD COMPANY (MNR)**

**MTA BUS COMPANY (MTA BUS)**

**MTA CAPITAL CONSTRUCTION COMPANY (MTA CC)**



The purpose of the hearing is to receive public comment on the Metropolitan Transportation Authority's (MTA) requests for financial assistance from the Federal Transit Administration (FTA) of the U.S. Department of Transportation pursuant to the United States Code Title 49 sections 5307, 5309, 5324, 5337, 5339, 5340 and/or funds available for transit use under Title I of the Federal transportation authorization for the capital projects of New York City Transit Authority (NYCTA), Manhattan and Bronx Surface Transit Operating Authority (MaBSTOA), Long Island Rail Road (LIRR), Metro-North Railroad (MNR), MTA Capital Construction Company (MTA CC) and MTA Bus Company (MTA Bus). The MTA particularly solicits and encourages the participation of private transportation providers and invites their comments and feedback. The Governor of the State of New York, local officials and publicly-owned operators of mass transportation services have designated MTA to receive the federal grants made in connection with this request.

It is anticipated that the difference between the cost of the projects and federal grants will be met through funds made available by any one or any combination of State, local or affiliated agency (such as MTA Bridges and Tunnels or MTA) sources, credits for non-federal project share generated from toll revenues as provided for in Section 23 USC 120 (i), sales of property, or program income.

The capital improvements to be made from this Program of Projects generally take place within the MTA New York City Transit System (subways and buses), the MTA Commuter Railroad System (LIRR and MNR), or city and State-owned property. Any property acquisition or relocation that may be required for NYCTA, MaBSTOA, LIRR, MNR, MTA CC or MTA Bus projects will be carried out in accordance with the appropriate provisions of law and regulatory requirements. The projects are not anticipated to have any significant adverse environmental impact. If MTA prepares a formal statement on the environmental impact of any of the projects, the availability of that statement will be made known by public notice.

The projects will conform to comprehensive land use and transportation planning for the New York metropolitan area. The projects have been or will be endorsed by the Metropolitan Planning Organization for the New York metropolitan region, as the product of continuing, cooperative and comprehensive planning for all modes of transportation, and conform with the State Implementation Plan (SIP) as required by Clean Air Act Amendments of 1990.

The projects included in this hearing are being considered for the proposed Capital Program for 2020-2024, or are part of the approved 2010-2014 / 2015-2019 Capital Programs or their proposed amendments. The proposed 2020-2024 program and the proposed 2010-2014 / 2015-2019 program amendments have not yet been approved by the State of New York. The process of approving the programs may result in changes to the proposed capital programs.

The NYCTA, MaBSTOA, LIRR, MNR, and MTA Bus provide half-fare for the elderly and disabled as required by the Code, and all legal requirements relating to the elderly and disabled will be met.

Federal funds must generally be matched by a local share contribution for capital assistance of 20% for funding categories.

## **PROPOSALS**

### **I. Section 5307 Requests**

In Federal Fiscal Year 2019, MTA was eligible to receive an estimated \$672.8 million of Section 5307 funds. MTA will use those funds for NYCTA, MaBTOA, LIRR, MNR and MTA Bus projects. Full year apportionments for Federal Fiscal Year 2020 are not yet available.

MTA proposes to:

- A) Submit capital projects to request some or all of the Section 5307 funds for prior Federal Fiscal Years that will be available.

- B) Submit some capital projects to request Section 5307 funds remaining from prior fiscal period allocations and for adjustments to the Section 5307 program.

**II. Requests for Funds under Sections 5324, 5337 and 5339 of the Code, and Title I of FAST Act**

- A) In Federal Fiscal Year 2019, MTA was eligible to receive \$795.3 million of Section 5337 State of Good Repair and \$28.6 million of Section 5339 Bus and Bus Facilities funds. Projects will also be submitted for federal funds under Title I funds categories of FAST Act, as appropriate, in an effort to assure receipt of the maximum amount of federal assistance. The apportionment for Federal Fiscal Year 2020 is not yet known.
- B) Additional projects may be submitted in amounts sufficient to request federal fund balances from prior fiscal year allocations and grants within each of these fund categories, including fund categories under the Title I of MAP-21 or FAST Act, as appropriate, and for adjustments to these programs.

**HEARING DATE, TIME AND LOCATION**

Date: Thursday, January 15, 2020  
Time: 4:30 p.m.  
Location: Metropolitan Transportation Authority  
3 Stone Street – NYCT Bid Reception Area  
New York, New York 10004

**REGISTRATION AND WRITTEN COMMENTS**

Those wishing to be heard must register in advance, either by telephone or on the MTA website or in person at the hearing. It is advisable to pre-register before the hearing because those people will be heard first. Registration in person will be permitted at the hearing until 6:00 p.m. Oral presentations will be limited to three minutes. A record will be made of the comments received.

Written comments for incorporation in the record of the hearing will be accepted provided they are submitted before the hearing is closed. Registrations, written comments,

and questions about the hearing, as well as the locations where copies of the document are available for review should be addressed to:

Metropolitan Transportation Authority

Government Affairs

2 Broadway

New York, New York 10004

or you may call (212) 878-7127 between the hours of 9:00 a.m. and 5:00 p.m.

### **ACCESSIBILITY AND INTERPRETER SERVICES**

The hearing has been scheduled at a location that is accessible to people with mobility impairment. An interpreter for hearing impaired people will be available upon request.

### **COPIES OF APPLICATIONS AND QUESTIONS ABOUT THE FINAL PROGRAM OF PROJECTS**

Requests for copies of the applications and final program of projects to be submitted to FTA, or questions regarding these documents should be addressed to:

Metropolitan Transportation Authority

Capital Program Funding & Grant Management

2 Broadway

New York, New York 10004

or you may call (212) 878-7127 between the hours of 9:00 a.m. and 5:00 p.m.

The MTA will make the final program of projects available on its website ([www.mta.info](http://www.mta.info)) for Section 5307 funded projects when the FTA awards the Federal Fiscal Year 2020 grants.

### **A Note on Legal Names:**

Although the MTA operating agencies adopted new popular names in 1993, the legal names remain unchanged and continue to be used in contracts, financial statements, legislation, and bond documents.

Legal Names:

New York City Transit Authority

Manhattan and Bronx Surface Transit Operating Authority

The Long Island Rail Road Company

Metro-North Commuter Railroad Company

Metropolitan Transportation Authority Bus Company

MTA Capital Construction Company

Popular Name:

MTA New York City Transit

MaBSTOA

MTA Long Island Rail Road

MTA Metro-North Railroad

MTA Bus

MTA CC

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**Proposed Program of Projects  
Federal Fiscal Year 2020**

| <b>ACEP ID/Agency<br/>PIN</b>     | <b>Project/Project Description</b>                                | <b>Estimated Federal<br/>Request (\$M)</b> | <b>Page</b> |
|-----------------------------------|---|--|-------------|
| <b>NEW YORK CITY TRANSIT</b>      |   |  |             |
| <b>Subway Cars</b>                |   |  |             |
| T8010101                          | A-Division Car Purchases  | \$1,500.00                                 | 1           |
|                                   | <b>Subtotal</b>   | <b>\$1,500.00</b>                          |             |
| <b>Bus Replacement</b>            |   |  |             |
| T7030216                          | Purchase 45 All-Electric Buses                                    | \$54.52                                    | 2           |
| T8030207                          | Advanced Tech Bus Development                                     | \$3.00                                     | 3           |
|                                   | <b>Subtotal</b>   | <b>\$57.52</b>                             |             |
| <b>Stations</b>                   |   |  |             |
| T60412C2                          | Station Components: Aqueduct - North Conduit Ave / Rockaway (RKY) | \$4.35                                     | 4           |
| T7041213                          | Station Renewal: Woodhaven Boulevard / Jamaica (JAM)              | \$45.13                                    | 5           |
| T7041231                          | Station Lighting: 3 Locations / Various [SBMP]                    | \$5.25                                     | 6           |
| T7041245                          | Mezz Ceiling Finishes: 2 Locs/Archer (ARC), Flushing (FLS) [SBMP] | \$4.57                                     | 7           |
| T7041274                          | Station Lighting: 8 Locations / Various                           | \$7.66                                     | 8           |
| T8041201                          | Station Renewals at 10 ADA Locations                              | \$50.00                                    | 9           |
| T8041203                          | Plat, Mezz, & Interior Stair Comps: ADA Locations                 | \$2.16                                     | 10          |
| T8041204                          | Platform Components: Various Locations                            | \$10.60                                    | 11          |
| T8041205                          | Station Ventilators: Various Locations                            | \$9.86                                     | 12          |
| T7041338                          | ADA: Tremont Avenue / Concourse (BXC)                             | \$46.80                                    | 13          |
| T80413A1                          | ADA: Various Stations   | \$5,108.60                                 | 14          |
|                                   | <b>Subtotal</b>   | <b>\$5,294.98</b>                          |             |
| <b>Track</b>                      |   |  |             |
| T8050201                          | Mainline Track Replacement  | \$160.72                                   | 15          |
|                                   | <b>Subtotal</b>   | <b>\$160.72</b>                            |             |
| <b>Line Equipment</b>             |   |  |             |
| T7060505                          | Rehab Vent Plant Damper System - Various Locations                | \$40.70                                    | 16          |
| T8060502                          | Fan Plants: Various Locations                                     | \$39.99                                    | 17          |
| T8060504                          | Additional Work: Line Equipment                                   | \$35.00                                    | 18          |
|                                   | <b>Subtotal</b>   | <b>\$115.69</b>                            |             |
| <b>Line Structures</b>            |   |  |             |
| T8070301                          | Subway Structure Repairs: Various Locations                       | \$165.46                                   | 19          |
| T8070302                          | Elevated Structure Repairs: Various Locations                     | \$245.68                                   | 20          |
| T8070303                          | Line Structure Overcoating: Various Locations                     | \$38.30                                    | 21          |
|                                   | <b>Subtotal</b>   | <b>\$449.44</b>                            |             |
| <b>Signals and Communications</b> |   |  |             |
| T8080302                          | System-Wide Signal Improvements                                   | \$55.97                                    | 22          |
| T8080601                          | Comm Network Upgrades: Various Locations                          | \$33.05                                    | 23          |
| T8080609                          | Passenger ID: Various Locations                                   | \$9.62                                     | 24          |
| T8080610                          | Security Technology Upgrades: Various Locations                   | \$113.00                                   | 25          |
|                                   | <b>Subtotal</b>   | <b>\$211.64</b>                            |             |

**Proposed Program of Projects  
Federal Fiscal Year 2020**

| <b>ACEP ID/Agency<br/>PIN</b>      | <b>Project/Project Description</b>                          | <b>Estimated Federal<br/>Request (\$M)</b> | <b>Page</b> |
|------------------------------------|---|--|-------------|
| <b>Power</b>                       |   |  |             |
| T6090217                           | Reconstruct 6 Negative Manholes - Central Substation / 6 AV | \$2.10                                     | 26          |
| T7090203                           | Central Substation Renewal Including New Rectifier / 6AV    | \$47.51                                    | 27          |
| T7090219                           | New Substation: Canal Street / 8AV                          | \$68.17                                    | 28          |
| T8090201                           | Substation Renewals: Various Locations                      | \$80.81                                    | 29          |
| T8090204                           | Power Improvements for SigMod: Various Locations            | \$46.36                                    | 30          |
| T8090401                           | Circuit Breaker Houses: Various Locations                   | \$41.30                                    | 31          |
| T8090402                           | Traction Power Cables: Various Locations                    | \$50.30                                    | 32          |
| T8090403                           | Miscellaneous Power Investments                             | \$19.44                                    | 33          |
|                                    | <b>Subtotal</b>   | <b>\$355.99</b>                            |             |
| <b>Shops</b>                       |   |  |             |
| T7100441                           | Rail Car Acceptance and Testing Facility, Brooklyn          | \$78.80                                    | 34          |
|                                    | <b>Subtotal</b>   | <b>\$78.80</b>                             |             |
| <b>Depots</b>                      |   |  |             |
| T7120418                           | Automated Fuel and Fluid Management Systems Phase 1         | \$2.40                                     | 35          |
| T8120301                           | Depot Component Repairs: Various Locations                  | \$45.85                                    | 36          |
| T8120401                           | Automatic Bus Lane Enforcement (ABLE), Phase 2              | \$85.00                                    | 37          |
|                                    | <b>Subtotal</b>   | <b>\$133.25</b>                            |             |
| <b>Misc./Emergency</b>             |   |  |             |
| T8160402                           | Information Systems Upgrades                                | \$20.00                                    | 38          |
| T8160701                           | Subways Employee Facility Repairs: Various Locs             | \$33.86                                    | 39          |
| T8160703                           | Misc./Administrative Facility Investments                   | \$20.00                                    | 40          |
|                                    | <b>Subtotal</b>   | <b>\$73.86</b>                             |             |
| <b>New York City Transit Total</b> |   | <b>\$8,431.89</b>                          |             |
| <b>LONG ISLAND RAILROAD</b>        |   |  |             |
| <b>Rolling Stock</b>               |   |  |             |
| L8010102                           | Purchase Dual Mode Locomotives                              | \$50.00                                    | 41          |
| L8010103                           | Purchase Coaches  | \$30.00                                    | 42          |
|                                    | <b>Subtotal</b>   | <b>\$80.00</b>                             |             |
| <b>Stations</b>                    |   |  |             |
| L8020402                           | Station Platform Components Various Locations               | \$38.40                                    | 43          |
| L8020403                           | Station Building Components Various Locations               | \$4.12                                     | 44          |
| L8020408                           | Mentor Allowance - Stations                                 | \$7.59                                     | 45          |
| L8020501                           | Parking Rehabilitation & Access Improvements                | \$12.80                                    | 46          |
| L8020601                           | Penn Station HVAC, Platform & Building Improvement          | \$7.20                                     | 47          |
|                                    | <b>Subtotal</b>   | <b>\$70.11</b>                             |             |
| <b>Track</b>                       |   |  |             |
| L8030101                           | Construction Equipment & Geometry Cars                      | \$40.00                                    | 48          |
| L8030102                           | Retaining Walls/Right-of-Way Projects                       | \$5.40                                     | 49          |
| L8030103                           | Yard Track Rehabilitations                                  | \$24.00                                    | 50          |
| L8030104                           | Annual Track Program  | \$262.60                                   | 51          |
| EL0303ZT                           | Long Beach Branch Elevation Improvements                    | \$10.00                                    | 52          |
| L8030403                           | E Yard Extension  | \$100.00                                   | 53          |
|                                    | <b>Subtotal</b>   | <b>\$442.00</b>                            |             |

**Proposed Program of Projects  
Federal Fiscal Year 2020**

| <b>ACEP ID/Agency<br/>PIN</b>      | <b>Project/Project Description</b>                        | <b>Estimated Federal<br/>Request (\$M)</b> | <b>Page</b> |
|------------------------------------|---|--|-------------|
| <b>Line Structures</b>             |   |  |             |
| L8040101                           | Painting, Drainage & Waterproofing of Bridges             | \$10.20                                    | 54          |
| L8040102                           | Replacement and Rehabilitation of Bridges                 | \$40.80                                    | 55          |
| L8040103                           | Miscellaneous Bridge Work                                 | \$8.30                                     | 56          |
| L8040104                           | Small Business Mentoring Program - Bridges                | \$7.78                                     | 57          |
|                                    | <b>Subtotal</b>   | <b>\$67.08</b>                             |             |
| <b>Communications and Signals</b>  |   |  |             |
| L8050101                           | Communication Pole Line                                   | \$4.00                                     | 58          |
| L8050102                           | Comm Component Replacement                                | \$4.00                                     | 59          |
| L8050103                           | Fiber Optic Network                                       | \$7.60                                     | 60          |
| L8050201                           | Babylon Interlocking Renewal & New Sidings                | \$52.90                                    | 61          |
| L8050205                           | Signal Replacement and Interlocking Improvements          | \$37.00                                    | 62          |
|                                    | <b>Subtotal</b>   | <b>\$105.50</b>                            |             |
| <b>Shops and Yards</b>             |   |  |             |
| L8060101                           | Rolling Stock Support Shop Equipment                      | \$4.00                                     | 63          |
| L8060102                           | Shop Improvements at Various Locations                    | \$1.04                                     | 64          |
| L8060103                           | Yard Improvements at various locations                    | \$6.80                                     | 65          |
| L8060104                           | Small Business Mentoring Program - Shops & Yards          | \$0.96                                     | 66          |
| L8060401                           | Rehabilitation of Employee Facilities - Various Locations | \$12.00                                    | 67          |
| L8060405                           | Small Business Mentoring Program Emp. Facs.               | \$8.16                                     | 68          |
|                                    | <b>Subtotal</b>   | <b>\$32.96</b>                             |             |
| <b>Power</b>                       |   |  |             |
| L8070101                           | Substation Replacements                                   | \$32.00                                    | 69          |
| L8070102                           | Lighting Improvements                                     | \$14.00                                    | 70          |
| L8070103                           | Power Component Repairs and Replacements                  | \$22.20                                    | 71          |
| L8070104                           | Third Rail Upgrades                                       | \$16.60                                    | 72          |
| L8070105                           | Central Branch Electrification                            | \$230.00                                   | 73          |
|                                    | <b>Subtotal</b>   | <b>\$314.80</b>                            |             |
| <b>Miscellaneous</b>               |   |  |             |
| L8090410                           | Program Administration                                    | \$138.00                                   | 74          |
| TranTech                           | Transit Technical Assistance                              | \$0.40                                     | 75          |
|                                    | <b>Subtotal</b>   | <b>\$138.40</b>                            |             |
| <b>Long Island Rail Road Total</b> |   | <b>\$1,250.85</b>                          |             |

**METRO-NORTH RAILROAD**

**Stations**

|            |   |                 |    |
|------------|---|-----------------|----|
| M702-01-06 | GCT Elevator Improvements   | \$7.12          | 76 |
| M702-01-08 | Mentoring -Grand Central Terminal (GCT)                                 | \$6.00          | 77 |
| M702-01-09 | Park Avenue Tunnel Emergency Exits/GCT Column Painting                  | \$1.91          | 78 |
| M802-01-03 | GCT Building Component Repairs/Replacements                             | \$60.89         | 79 |
| M702-02-04 | Harlem Line Station Improvements  | \$16.25         | 80 |
| M702-02-09 | Mentoring Program – Stations  | \$8.96          | 81 |
| M802-02-01 | Upper H&H Station Priority Repairs                                      | \$21.05         | 82 |
| M802-02-02 | Harlem Line Station Renewals  | \$21.59         | 83 |
| M802-02-07 | Station Mentoring Program   | \$3.00          | 84 |
| M702-03-01 | Strategic Facilities -Upper Harlem Parking Improvements at Croton Falls | \$6.60          | 85 |
| M702-03-02 | Mentoring Program – Strategic Facilities                                | \$2.05          | 86 |
| M802-03-02 | Parking Mentoring Program   | \$3.00          | 87 |
|            | <b>Subtotal</b>   | <b>\$158.42</b> |    |

**Proposed Program of Projects  
Federal Fiscal Year 2020**

| <b>ACEP ID/Agency<br/>PIN</b>                 | <b>Project/Project Description</b>           | <b>Estimated Federal<br/>Request (\$M)</b> | <b>Page</b> |
|---|--|--|-------------|
| <b><i>Track and Structures</i></b>            |  |  |             |
| M803-01-01                                    | 2020 Cyclical Track Program                  | \$18.00                                    | 88          |
| M803-01-03                                    | Turnouts- Mainline, GCT & Yards              | \$15.85                                    | 89          |
| M803-01-06                                    | ROW Drainage Improvements                    | \$8.57                                     | 90          |
| M803-01-07                                    | Purchase of Maintenance of Way Equipment     | \$8.03                                     | 91          |
| M703-02-03                                    | Undergrade Bridge Rehab. - East of Hudson    | \$16.60                                    | 92          |
| M703-02-09                                    | Harlem River Lift Bridge                     | \$8.22                                     | 93          |
| M703-02-15                                    | Mentoring Program - Structures               | \$6.00                                     | 94          |
| M803-02-02                                    | Undergrade Bridge Rehab. - East of Hudson    | \$4.66                                     | 95          |
| M803-02-03                                    | Overhead Bridge Program East of Hudson       | \$38.80                                    | 96          |
| M803-02-04                                    | Railtop Culverts                             | \$0.55                                     | 97          |
| M803-02-05                                    | Bridge Walkways                              | \$0.91                                     | 98          |
| M803-02-09                                    | Mentoring Program - Structures               | \$0.60                                     | 99          |
| M803-03-03                                    | West of Hudson Undergrade Bridge Program     | \$1.97                                     | 100         |
| M803-03-04                                    | Moodna/Woodbury Viaducts                     | \$30.00                                    | 101         |
|   | <b>Subtotal</b>                              | <b>\$158.76</b>                            |             |
| <b><i>Power</i></b>                           |  |  |             |
| M805-01-02                                    | Substation Rehabilitation                    | \$10.70                                    | 102         |
|   | <b>Subtotal</b>                              | <b>\$10.70</b>                             |             |
| <b>Metro-North Railroad Total</b>             |  | <b>\$327.88</b>                            |             |
| <b>MTA BUS</b>                                |  |  |             |
| <b><i>Facilities</i></b>                      |  |  |             |
| U7030210                                      | Paint Booths - Eastchester and College Point | \$4.89                                     | 103         |
|   | <b>Subtotal</b>                              | <b>\$4.89</b>                              |             |
| <b><i>Bus Replacement</i></b>                 |  |  |             |
| U7030219                                      | Purchase 25 Standard Buses                   | \$16.81                                    | 104         |
| U8030201                                      | Purchase 25 Standard All-Electric Buses      | \$42.38                                    | 105         |
|   | <b>Subtotal</b>                              | <b>\$59.19</b>                             |             |
| <b>MTA Bus Total</b>                          |  | <b>\$64.08</b>                             |             |
| <b>CAPITAL CONSTRUCTION COMPANY</b>           |  |  |             |
| G81101XX                                      | Penn Station Access                          | \$904.76                                   | 106         |
|   | <b>Subtotal</b>                              | <b>\$904.76</b>                            |             |
| <b>MTA Capital Construction Company Total</b> |  | <b>\$904.76</b>                            |             |
| <b>MTA GRAND TOTAL</b>                        |  | <b>\$10,979.46</b>                         |             |

# Proposed Program of Projects Federal Fiscal Year 2020

**Agency**

New York City Transit

**ACEP ID**

T8010101

**Project Name**

A-Division Car Purchases

**Planning Number / PIN**

**County/Borough:** Multiple

**Zip Code** Multiple

**Object/Purpose of Project**

This project will purchase new A-Division subway cars to align with signal modernization, system-wide.

**Units/Locations/Limits**

Railcars, system-wide

**Summary**

This project is to purchase A-Division cars to replace a portion of the existing fleet as part of the normal replacement of railcars based on a 40-year useful life. The purchase will also align with signal modernization.

The budget for this project is \$1,500 million. This request is for \$1,500 million.

# Proposed Program of Projects

## Federal Fiscal Year 2020

|                                 |                              |
|---------------------------------|------------------------------|
| <b>Agency</b>                   | <b>ACEP ID</b>               |
| New York City Transit           | T7030216                     |
| <b>Project Name</b>             | <b>Planning Number / PIN</b> |
| Purchase 45 All-Electric Buses  | SF02-8129                    |
| <b>County/Borough:</b> Multiple | <b>Zip Code</b> Multiple     |

### Object/Purpose of Project

The purpose of this project is to purchase 45 All-Electric buses utilizing new energy alternative technology to replace end-of-life buses.

### Units/Locations/Limits

45 All-Electric Buses

### Summary

Purchase 45 All-Electric Buses (AEB), for NYCT, replacing end-of-life hybrid buses. The AEBs will have a 12-year useful life, in compliance with the MTA's standards, will meet or exceed Environmental Protection Agency (EPA) emissions standards, as well as Americans With Disabilities Act (ADA) standards.

The budget for this project is \$54.52 million. This request is for \$54.52 million.

# Proposed Program of Projects Federal Fiscal Year 2020

|                                 |                              |
|---------------------------------|------------------------------|
| <b>Agency</b>                   | <b>ACEP ID</b>               |
| New York City Transit           | T8030207                     |
| <b>Project Name</b>             | <b>Planning Number / PIN</b> |
| Advanced Tech Bus Development   |                              |
| <b>County/Borough:</b> Multiple | <b>Zip Code</b> Multiple     |

|  |
|--|
| <b>Object/Purpose of Project</b>   |
| This project will upgrade technology systems at various bus facilities, system-wide. |

|                                     |
|-------------------------------------|
| <b>Units/Locations/Limits</b>       |
| Various Bus Facilities, system-wide |

|                |
|----------------|
| <b>Summary</b> |
|----------------|

The scope of work for these projects may include: modernize the dispensing of fuel and other fluids within all depots to facilitate and modernize analysis, reporting and forecasting of fluid use and needs, and eliminate related manual data entry and reconciliation. This project will install fuel management systems at various bus maintenance bays. The project includes the installation of fuel management terminals, hoses, and associated equipment at all fuel lanes and maintenance bays at all MTA depots and maintenance facilities.

The budget for this project \$12.0 million. This request is for \$3.0 million.

# Proposed Program of Projects Federal Fiscal Year 2020

|   |                              |
|---|------------------------------|
| <b>Agency</b>   | <b>ACEP ID</b>               |
| New York City Transit   | T60412C2                     |
| <b>Project Name</b>   | <b>Planning Number / PIN</b> |
| Station Components: Aqueduct - North Conduit Ave / Rockaway (RKY) | ST21-0607                    |
| <b>County/Borough:</b> Queens                                     | <b>Zip Code</b> 11417        |

## Object/Purpose of Project

The purpose of this project is to eliminate deficient components at the Aqueduct - North Conduit Ave Station on the Rockaway Line, in the Borough of Queens.

## Units/Locations/Limits

Aqueduct - North Conduit Av, Rockaway Line (RKY), Queens, NY

## Summary

The purpose of this project is to eliminate deficient components including repairing the platform canopy, repairing stair roofs, replacing lighting, repairing all platform expansion joints, and abating environmental risks for lead paint. The canopy and back wall will also be painted.

The budget for this project is \$4.35 million. The request is for \$4.35 million.



# Proposed Program of Projects

## Federal Fiscal Year 2020

|  |                              |
|--|------------------------------|
| <b>Agency</b>  | <b>ACEP ID</b>               |
| New York City Transit                                | T7041213                     |
| <b>Project Name</b>                                  | <b>Planning Number / PIN</b> |
| Station Renewal: Woodhaven Boulevard / Jamaica (JAM) | ST22-1888                    |
| <b>County/Borough:</b> Queens                        | <b>Zip Code</b> 11373        |

**Object/Purpose of Project**

The purpose of this project is the renewal of the Woodhaven Boulevard Station, on the Jamaica Line, in the Borough of Queens.

**Units/Locations/Limits**

Woodhaven Blvd / Jamaica Line (JAM), Queens, NY

**Summary**

The purpose of this project is to repair or replace street stairs, mezzanine to platform stairs, mezzanine floors, doors and windows, interior and exterior walls, and canopies as required. The stations will also be painted.

The budget for this project is \$45.13 million. The request is for \$45.13 million.

# Proposed Program of Projects

## Federal Fiscal Year 2020

|  |                              |
|--|------------------------------|
| <b>Agency</b>                                  | <b>ACEP ID</b>               |
| New York City Transit                          | T7041231                     |
| <b>Project Name</b>                            | <b>Planning Number / PIN</b> |
| Station Lighting: 3 Locations / Various [SBMP] | ST21-3510                    |
| <b>County/Borough:</b> Multiple                | <b>Zip Code</b> Multiple     |

### Object/Purpose of Project

The purpose of this project is to remove the existing incandescent and fluorescent lighting fixtures from the mezzanine, control areas, platforms, entrances and passageway and replace them with new vandal resistant LED fixtures at 3 locations in the Boroughs of Manhattan and Bronx.

### Units/Locations/Limits

-Canal St / Broadway-7AV Line (BW7), Manhattan, NY

-Longwood Av / Pelham Line (PEL), Bronx, NY

-Grand Concourse / Jerome Line (JER), Bronx, NY

### Summary

The purpose of this project is to remove the existing incandescent and fluorescent lighting fixtures from the mezzanine, control areas, platforms, entrances and passageway and replace them with new vandal resistant LED fixtures at 3 locations in Manhattan and Bronx. This project is part of the Small Business Mentoring Program [SBMP].

The budget for this project is \$5.25 million. The request is for \$5.25 million.

# Proposed Program of Projects Federal Fiscal Year 2020

**Agency**

New York City Transit

**ACEP ID**

T7041245

**Project Name**

Mezz Ceiling Finishes: 2 Locs/Archer (ARC), Flushing (FLS) [SBMP]

**Planning Number / PIN**

ST21-3354

**County/Borough:**

Queens

**Zip Code**

Multiple

**Object/Purpose of Project**

The purpose of this project is to repair/replace ceilings, wall tiles, and concrete floor toppings due to their age and condition at Sutphin Boulevard Station on the Archer Line and the Junction Boulevard Station on the Flushing Line, in the Borough of Queens

**Units/Locations/Limits**

-Sutphin Blvd Station / Archer Line (ARC), Queens NY

-Junction Blvd Station / Flushing Line (FLS), Queens, NY

**Summary**

The purpose of this project is to replace existing and deficient mezzanine components which may include: wall tiles, concrete floor toppings, ceilings. This project is part of the Small Business Mentoring Program [SBMP].

The budget for this project is \$4.57 million. The request is for \$4.57 million.

# Proposed Program of Projects

## Federal Fiscal Year 2020

|   |                              |
|---|------------------------------|
| <b>Agency</b>                           | <b>ACEP ID</b>               |
| New York City Transit                   | T7041274                     |
| <b>Project Name</b>                     | <b>Planning Number / PIN</b> |
| Station Lighting: 8 Locations / Various | ST21-3750                    |
| <b>County/Borough:</b> Multiple         | <b>Zip Code</b> Multiple     |

### Object/Purpose of Project

The purpose of this project is to remove the existing incandescent and fluorescent lighting fixtures from the mezzanine, control areas, platforms, entrances and passageway and replace them with new vandal resistant LED fixtures at 8 locations system-wide.

### Units/Locations/Limits

-145 St, 14 St, Houston St, and Franklin St Stations / Broadway - 7AV Line (BW7)

-Dyckman St, 200 St, and 168 St Stations / 8AV Line

-Roosevelt Island Station / 63 St Line

-Gun Hill Road Station / White Plains Rd Line (WPR)

### Summary

The purpose of this project is to remove the existing incandescent and fluorescent lighting fixtures from the mezzanine, control areas, platforms, entrances and passageway and replace them with new vandal resistant LED fixtures at 8 locations system-wide.

The budget for this project is \$7.66 million. The request is for \$7.66 million.

# Proposed Program of Projects Federal Fiscal Year 2020

|                                      |                              |
|--------------------------------------|------------------------------|
| <b>Agency</b>                        | <b>ACEP ID</b>               |
| New York City Transit                | T8041201                     |
| <b>Project Name</b>                  | <b>Planning Number / PIN</b> |
| Station Renewals at 10 ADA Locations |                              |
| <b>County/Borough:</b> Multiple      | <b>Zip Code</b> Multiple     |

**Object/Purpose of Project**  
The purpose of this project is the renewal of 10 stations at ADA locations, system-wide.

**Units/Locations/Limits**  
Stations at ADA locations, system-wide

**Summary**

The scope of work for these project may include: repair or replace street stairs, mezzanine to platform stairs, mezzanine floors, doors and windows, interior and exterior walls, and canopies as required. Stations will also be painted. Work is being done in conjunction with the ADA project at the same locations. Some of the work may be performed as part of the Small Business Mentoring Program [SBMP].

The budget for this project is \$629.5 million. The request is for \$50.0 million.

## Proposed Program of Projects Federal Fiscal Year 2020

|   |                              |
|---|------------------------------|
| <b>Agency</b>                                     | <b>ACEP ID</b>               |
| New York City Transit                             | T8041203                     |
| <b>Project Name</b>                               | <b>Planning Number / PIN</b> |
| Plat, Mezz, & Interior Stair Comps: ADA Locations |                              |
| <b>County/Borough:</b> Multiple                   | <b>Zip Code</b> Multiple     |

**Object/Purpose of Project**

The purpose of this project is to replace all deficient mezzanine, lighting, platform, and interior stair components at various locations system-wide.

**Units/Locations/Limits**

Mezzanine and Lighting Components, system-wide

**Summary**

The scope of work for these projects may include: repair/replace all deficient mezzanine and lighting components. Work may include: mezzanine columns, mezzanine walls/ceilings, mezzanine floors, lighting, emergency lighting. Some of the work may be performed as part of the Small Business Mentoring Program [SBMP].

The budget for this project is \$133.4 million. The request is for \$2.16 million.

# Proposed Program of Projects Federal Fiscal Year 2020

|  |                              |
|--|------------------------------|
| <b>Agency</b>                          | <b>ACEP ID</b>               |
| New York City Transit                  | T8041204                     |
| <b>Project Name</b>                    | <b>Planning Number / PIN</b> |
| Platform Components: Various Locations |                              |
| <b>County/Borough:</b> Multiple        | <b>Zip Code</b> Multiple     |

**Object/Purpose of Project**  
The purpose of this project is to replace deficient platform components at various locations, system-wide.

**Units/Locations/Limits**  
Platform Components, system-wide

**Summary**  
The scope of work for these projects may include: eliminate deficient components including repairing the platform edges and platform floors, and abating environmental risks for lead paint. The station will also be painted. Work is being done in conjunction with the ADA project at the same locations. Some of the work may be performed as part of the Small Business Mentoring Program [SBMP].

The budget for this project is \$625.7 million. The request is for \$10.6 million.

# Proposed Program of Projects Federal Fiscal Year 2020

**Agency**

New York City Transit

**ACEP ID**

T8041205

**Project Name**

Station Ventilators: Various Locations

**Planning Number / PIN****County/Borough:**

Multiple

**Zip Code**

Multiple

**Object/Purpose of Project**

The purpose of this project is to repair ventilators at various locations.

**Units/Locations/Limits**

Ventilators at various locations, system-wide

**Summary**

The scope of work for these projects may include: repair ventilators at various locations; work will vary by station and the scope may include: ventilator gratings, adjacent sidewalk, ventilator walls, steel members, drip pans, and drains. All selected components' deficiencies within the stations will be eliminated.

The budget for this project is \$52.9 million. The request is for \$9.86 million.



# Proposed Program of Projects

## Federal Fiscal Year 2020

|                                       |                              |
|---------------------------------------|------------------------------|
| <b>Agency</b>                         | <b>ACEP ID</b>               |
| New York City Transit                 | T7041338                     |
| <b>Project Name</b>                   | <b>Planning Number / PIN</b> |
| ADA: Tremont Avenue / Concourse (BXC) | ST04-2444                    |
| <b>County/Borough:</b> Bronx          | <b>Zip Code</b> 10453        |

**Object/Purpose of Project**

The purpose of this project is to provide full Americans with Disabilities (ADA) accessibility at Tremont Avenue Station on the Concourse Line in the Borough of Bronx.

**Units/Locations/Limits**

Tremont Av Station / Concourse Line (BXC), Bronx, NY

**Summary**

The purpose of this project is to provide full Americans with Disabilities (ADA) accessibility at Tremont Avenue Station on the Concourse Line in the Borough of Bronx. Work may include modification of any of the following: platforms, gates, agent booth windows, handrails, Customer Information Screens, public toilets and ramps and elevators, as needed.

The budget for this project is \$46.8 million. The request is for \$46.8 million.

# Proposed Program of Projects Federal Fiscal Year 2020

|                                 |                              |
|---------------------------------|------------------------------|
| <b>Agency</b>                   | <b>ACEP ID</b>               |
| New York City Transit           | T80413A1                     |
| <b>Project Name</b>             | <b>Planning Number / PIN</b> |
| ADA: Various Stations - 2020    |                              |
| <b>County/Borough:</b> Multiple | <b>Zip Code</b> Multiple     |

|  |
|--|
| <b>Object/Purpose of Project</b>   |
| The purpose of this project is to provide full Americans with Disabilities (ADA) accessibility at various stations, system-wide. |

|                                |
|--------------------------------|
| <b>Units/Locations/Limits</b>  |
| Various Stations, system-wide. |

|  |
|--|
| <b>Summary</b>   |
| <p>This project will provide full Americans with Disabilities (ADA) accessibility at selected stations which may include the following: Avenue H Station, Sheepshead Bay Station, and Church Av Station on the Brighton Line, Dyckman St, 125th St, 168 St Station and 137 St Station on the Broadway-7Av Line, Mosholu Parkway Station on the Jerome Line, 110th St, 28th St, 86 St Station on the Lexington Av Line, Neptune Av Station on the Culver Line, 36th St 4th on Av Line, Kings Highway, Sea on Beach Line, Beach 67th St, on Far Rockaway, 7th Av, on 6th Av Line, Classon Av, Metropolitan Av on Crosstown Line, Clifton, New Dorp and Huguenot on SIRTOA, Broadway on Astoria Line, Lorimer St and Grand St on Canarsie Line, 7th Av, Briarwood, Northern Blvd, Court Sq- 23rd St, Steinway St on QBL, Vernon-Blvd – Jackson Av, Flushing, 96th St, 81st St-Museum of Natural History, 181st St on 8th Av Line, E. 149th St, and Brook Av, Pelham Line, Harlem-148th St, on Lenox Line, Wilson Ave, Myrtle Av, on Jamaica Line, Hoyt-Schermerhorn on the Fulton Line Aqueduct North Conduit Ave, Rockaway Line, and Junius St, on New Lots and additional stations may be identified. Work may include modification of any of the following: platforms, gates, agent booth windows, handrails, Customer Information Screens, public toilets and ramps and elevators, as needed.</p> |

The budget for this project is \$5,108.6 million. The request is for \$5,108.6 million.

# Proposed Program of Projects Federal Fiscal Year 2020

|                                 |                              |
|---------------------------------|------------------------------|
| <b>Agency</b>                   | <b>ACEP ID</b>               |
| New York City Transit           | T8050201                     |
| <b>Project Name</b>             | <b>Planning Number / PIN</b> |
| Mainline Track Replacement      |                              |
| <b>County/Borough:</b> Multiple | <b>Zip Code</b> Multiple     |

|   |
|---|
| <b>Object/Purpose of Project</b>  |
| The purpose of this project is to maintain track infrastructure in a state of good repair through normal replacement. |

|                               |
|-------------------------------|
| <b>Units/Locations/Limits</b> |
| Mainline track, system-wide   |

|   |
|---|
| <b>Summary</b>  |
| This project, Mainline Track Rehab - Direct Fixation, will restore deteriorated Type VIIIM (direct fixation) track in which rubber rail seats were anchored directly to the concrete invert or placed on epoxy-sand mix plinths anchored to the structural concrete invert. The project will repair broken and cracked epoxy-sand plinths and broken lag bolts in the rubber rail seat's container plates, remedy water conditions that corrode the base of the rail, and stem further deterioration of the rubber rail seats fixed directly to the concrete invert. The Mainline Track Replacement project will reconstruct segments of mainline track that have reached the end of their useful life. |

This project has a budget of \$1,453.5 million. This request is for \$160.72 million.

## Proposed Program of Projects Federal Fiscal Year 2020

|  |                              |
|--|------------------------------|
| <b>Agency</b>                                      | <b>ACEP ID</b>               |
| New York City Transit                              | T7060505                     |
| <b>Project Name</b>                                | <b>Planning Number / PIN</b> |
| Rehab Vent Plant Damper System - Various Locations | MW24-2567                    |
| <b>County/Borough:</b> Multiple                    | <b>Zip Code</b> Multiple     |

**Object/Purpose of Project**  
The purpose of this project is to rehabilitate the fan plant dampers at seven locations in the Boroughs of Brooklyn and Queens.

**Units/Locations/Limits**  
-Fan Plants 5106 and 5107, Brooklyn, NY  
  
-Fan Plants 6408, 6409, 6410, 6411, and 6412, Queens, NY

**Summary**  
This project will repair or replace dampers, damper cable and damper components and perform related communications work.

The budget for this project is \$40.70 million. This request is for \$40.70 million.

# Proposed Program of Projects

## Federal Fiscal Year 2020

|                                 |                              |
|---------------------------------|------------------------------|
| <b>Agency</b>                   | <b>ACEP ID</b>               |
| New York City Transit           | T8060502                     |
| <b>Project Name</b>             | <b>Planning Number / PIN</b> |
| Fan Plants: Various Locations   |                              |
| <b>County/Borough:</b> Multiple | <b>Zip Code</b> Multiple     |

### Object/Purpose of Project

The purpose of this project is to perform component repairs on existing fan plants to keep them in good repair, and where practicable, upgrade fan plants to achieve higher velocities.

### Units/Locations/Limits

Vent Plants, system-wide

### Summary

The scope of this project may include: design, furnish, install and test new electrical, instrumentation and controls, and communication equipment at the Rail Control Center (RCC) and Backup Command Center (BCC) to control and monitor fan plants. Additional data racks, Programmable Logic Controller (PLC), and circuit breaker equipment will be installed at each location as necessary to facilitate the upgrade.

The budget for this project is \$159.5 million. This request is for \$39.99 million.

## Proposed Program of Projects Federal Fiscal Year 2020

**Agency**

New York City Transit

**ACEP ID**

T8060504

**Project Name**

Additional Work: Line Equipment

**Planning Number / PIN****County/Borough:**

Multiple

**Zip Code**

Multiple

**Object/Purpose of Project**

The purpose of this project is to upgrade, rehabilitate, or replace line equipment at various locations, systemwide.

**Units/Locations/Limits**

Line equipment, systemwide.

**Summary**

This project will construct a new pump room, including a sump, pump, access openings, install discharge lines, sewer lines and manholes, and provide motor and supervisory control cabinets.

The budget for this project is \$129.3 million. This request is for \$35.00 million.

# Proposed Program of Projects

## Federal Fiscal Year 2020

|   |                              |
|---|------------------------------|
| <b>Agency</b>                               | <b>ACEP ID</b>               |
| New York City Transit                       | T8070301                     |
| <b>Project Name</b>                         | <b>Planning Number / PIN</b> |
| Subway Structure Repairs: Various Locations |                              |
| <b>County/Borough:</b> Multiple             | <b>Zip Code</b> Multiple     |

### Object/Purpose of Project

The purpose of this project is to address priority subway structural defects throughout the system.

### Units/Locations/Limits

Subway structure, system-wide

### Summary

This investment will help achieve the goals of addressing priority subway structural defects. The scope of work for these project may include: removal of all plenum plates, clean vent gratings, grout leaks, repair corroded beams, columns, and knee braces, and patch the spalled or missing concrete around those members.

Other work may include: rehabilitate or replace ventilators in the four boroughs that are not in a state of good repair due to water infiltration, corroded structural steel, or deteriorated concrete. This work may include: rehabilitation of ventilator structure, diverting water to prevent deterioration of structural members, designing/upgrading drainage system, cleaning existing drainage pipe fittings, replacing old check and gate valves, and providing new sidewalk gratings and frames. Additional work may include: repair subway structural components system-wide that have deteriorated in the face of water damage, corrosion, and normal wear-and-tear. Work may also be required to rehabilitate Emergency Exits throughout the subway system to bring them to a state of good repair and to help avoid the need for more comprehensive and expensive remedial work in the future.

The budget for this project is \$702.3 million. The request is for \$165.46 million.

# Proposed Program of Projects

## Federal Fiscal Year 2020

|   |                              |
|---|------------------------------|
| <b>Agency</b>                                 | <b>ACEP ID</b>               |
| New York City Transit                         | T8070302                     |
| <b>Project Name</b>                           | <b>Planning Number / PIN</b> |
| Elevated Structure Repairs: Various Locations |                              |
| <b>County/Borough:</b> Multiple               | <b>Zip Code</b> Multiple     |

**Object/Purpose of Project**

The purpose of this project is the extensive rehabilitation or replacement of elevated structures to address priority conditions, system-wide.

**Units/Locations/Limits**

Elevated structure, system-wide

**Summary**

This investment will help achieve the goals of rehabilitating and replacing elevated structures. The scope of work for these project may include: replacing various bridge structure to bring the bearings and supporting structure to a state of good repair. The entire existing structure may be demolished and reconstructed. Other work may include: replace electrical and mechanical equipment in order to address bridge deficiencies, or rehabilitate the closed deck elevated structure in order to restore the structural integrity of the structure. Work may include reinforcing longitudinal girders, repair of concrete beneath the platforms, and reinforcement of duct banks. Additional work may include: remove the top concrete layer of the upper track bed to allow for the installation of a waterproofing membrane on the upper level of the structure; on the lower structure, all leaks will be grouted on the ceiling and walls and all of the outstanding priority steel and concrete defects will be repaired.

The budget for this project is \$324.4M. This request is for \$245.68M



## Proposed Program of Projects Federal Fiscal Year 2020

|   |                              |
|---|------------------------------|
| <b>Agency</b>                                 | <b>ACEP ID</b>               |
| New York City Transit                         | T8070303                     |
| <b>Project Name</b>                           | <b>Planning Number / PIN</b> |
| Line Structure Overcoating: Various Locations |                              |
| <b>County/Borough:</b> Multiple               | <b>Zip Code</b> Multiple     |

### Object/Purpose of Project

The purpose of this project is to paint and repair elevate lines at various locations system-wide.

### Units/Locations/Limits

Elevated structures, system-wide.

### Summary

This investment will help achieve the goals of painting/repairing priority structural defects to maintain structural integrity, and to bring the assets into a state of good repair. Work will be done on both steel and concrete elements to prevent corrosion, spalling, leaks and cracks, repair or replace vent gratings, their steel framing, steel or concrete support beams, concrete drip pans, drains, drain pipes, sidewalk slabs, crack and spalled concrete, and vent dampers as required. Some of the work may be performed as part of the Small Business Mentoring Program [SBMP].

The budget for this project is \$1,011.8 million. The request is for \$38.3 million.

## Proposed Program of Projects Federal Fiscal Year 2020

|                                 |                              |
|---------------------------------|------------------------------|
| <b>Agency</b>                   | <b>ACEP ID</b>               |
| New York City Transit           | T8080302                     |
| <b>Project Name</b>             | <b>Planning Number / PIN</b> |
| System-Wide Signal Improvements |                              |
| <b>County/Borough:</b> Multiple | <b>Zip Code</b> Multiple     |

**Object/Purpose of Project**  
The purpose of this project is to repair and replace antiquated equipment on high priority signal systems to maintain their reliability, and conduct various other improvements, system-wide.

**Units/Locations/Limits**  
Various relay rooms, system-wide

**Summary**  
The scope of work for these projects may include: remove outdated equipment on high priority signal lines and replace them with redundant programmable logic controllers (PLCs) and associated software and fiber optic cable.

The budget for this project is \$181.1 million. This request is for \$55.97 million.

## Proposed Program of Projects Federal Fiscal Year 2020

|  |                              |
|--|------------------------------|
| <b>Agency</b>                            | <b>ACEP ID</b>               |
| New York City Transit                    | T8080601                     |
| <b>Project Name</b>                      | <b>Planning Number / PIN</b> |
| Comm Network Upgrades: Various Locations |                              |
| <b>County/Borough:</b> Multiple          | <b>Zip Code</b> Multiple     |

**Object/Purpose of Project**  
The purpose of this project is to upgrade various aspects of the communication networks to ensure proper functioning of the infrastructure, system-wide.

**Units/Locations/Limits**  
Various communication assets, system-wide

**Summary**  
The scope of work for these project may include: furnish and install all equipment, wiring, and cabling for repair/upgrading the Fiber Optic Network, repair/upgrade/replace outdated transport equipment, outdated rectifiers, converters, and transmission technology for existing fiber optic rings.

The budget for this project is \$217.0 million. This request is for \$33.05 million.

# Proposed Program of Projects

## Federal Fiscal Year 2020

|                                 |                              |
|---------------------------------|------------------------------|
| <b>Agency</b>                   | <b>ACEP ID</b>               |
| New York City Transit           | T8080609                     |
| <b>Project Name</b>             | <b>Planning Number / PIN</b> |
| Passenger ID: Various Locations |                              |
| <b>County/Borough:</b> Multiple | <b>Zip Code</b> Multiple     |

### Object/Purpose of Project

The purpose of this project is to improve the overall security of the subway system for riders and employees, as well as NYCT assets.

### Units/Locations/Limits

PIDs at various stations, system-wide

### Summary

The scope of work for these projects may include: install CCTV cameras, cabling conduit, panels, and network/recording equipment at various stations throughout the four boroughs. By improving the ability to identify those committing terrorist or other illegal acts by their entry/exit points, this project will allow for the deterrence of nefarious activity with overt surveillance, as well as trace the movements of perpetrators to increase the ability to respond to security concerns. Some of the work may be performed as part of the Small Business Mentoring Program [SBMP].

The budget for this project is \$202.4 million. The request is for \$9.62 million.

## Proposed Program of Projects Federal Fiscal Year 2020

|   |                              |
|---|------------------------------|
| <b>Agency</b>                                   | <b>ACEP ID</b>               |
| New York City Transit                           | T8080610                     |
| <b>Project Name</b>                             | <b>Planning Number / PIN</b> |
| Security Technology Upgrades: Various Locations |                              |
| <b>County/Borough:</b> Multiple                 | <b>Zip Code</b> Multiple     |

**Object/Purpose of Project**  
The purpose of this project is to provide security technology upgrades at various locations, to ensure the safety of NYCT assets, employees, and riders

**Units/Locations/Limits**  
Security Technology Upgrades, system-wide

**Summary**  
This investment will install the latest currently available intrusion detection system or similar technology at all tunnels throughout the four boroughs in order to ensure the successful protection of these assets, and the riding public.

The budget for this project is \$130.9 million. The request is for \$113.0 million.

## Proposed Program of Projects Federal Fiscal Year 2020

|   |                              |
|---|------------------------------|
| <b>Agency</b>   | <b>ACEP ID</b>               |
| New York City Transit                                       | T6090217                     |
| <b>Project Name</b>   | <b>Planning Number / PIN</b> |
| Reconstruct 6 Negative Manholes - Central Substation / 6 AV | PW09-6991                    |
| <b>County/Borough:</b> Manhattan                            | <b>Zip Code</b> 10019        |

**Object/Purpose of Project**  
The purpose of this project is to repair or rehabilitate six negative manholes as a part of the Central Substation renewal.

**Units/Locations/Limits**  
Six negative manholes, 53 St, Manhattan, NY

**Summary**  
This project will perform concrete repair, repair of corroded steel, and water remedy six manholes as a part of the Central Substation renewal.

The budget for this project is \$2.10 million. This request is for \$2.10 million.

## Proposed Program of Projects Federal Fiscal Year 2020

|  |                              |
|--|------------------------------|
| <b>Agency</b>  | <b>ACEP ID</b>               |
| New York City Transit                                    | T7090203                     |
| <b>Project Name</b>                                      | <b>Planning Number / PIN</b> |
| Central Substation Renewal Including New Rectifier / 6AV | PW11-2544                    |
| <b>County/Borough:</b> Manhattan                         | <b>Zip Code</b> 10019        |

**Object/Purpose of Project**  
The purpose of this project is to perform a renewal of the Central Substation in Manhattan in order to improve reliability of train services on multiple subway lines.

**Units/Locations/Limits**  
Central Substation, Manhattan, NY

**Summary**  
This project will install one transformer-rectifier unit, new high tension switchgear, a new battery set, replace feeder breakers, power cable, fiber optics and perform related architectural, mechanical, communication and utility work at the substation.

The budget for this project is \$47.51 million. This request is for \$47.51 million.

## Proposed Program of Projects Federal Fiscal Year 2020

|                                    |                              |
|------------------------------------|------------------------------|
| <b>Agency</b>                      | <b>ACEP ID</b>               |
| New York City Transit              | T7090219                     |
| <b>Project Name</b>                | <b>Planning Number / PIN</b> |
| New Substation: Canal Street / 8AV | PW09-6133                    |
| <b>County/Borough:</b> Manhattan   | <b>Zip Code</b> 10013        |

### Object/Purpose of Project

The purpose of this project is to construct a new substation around Canal Street to provide traction power for reliable train operations on the 8th Avenue Line in the Borough of Manhattan.

### Units/Locations/Limits

Canal Street and 8 Av, Manhattan, NY

### Summary

This project will construct a new underground substation with three rectifier power transformers, three silicon diode rectifiers, DC Switchgear and disconnect switches, auxiliary switchgear, controls, batteries, programmable logic controller (PLC) control cabinets, and other equipment.

The budget for this project is \$68.17 million. This request is for \$68.17 million.



# Proposed Program of Projects Federal Fiscal Year 2020

|  |                              |
|--|------------------------------|
| <b>Agency</b>                          | <b>ACEP ID</b>               |
| New York City Transit                  | T8090201                     |
| <b>Project Name</b>                    | <b>Planning Number / PIN</b> |
| Substation Renewals: Various Locations |                              |
| <b>County/Borough:</b> Multiple        | <b>Zip Code</b> Multiple     |

## Object/Purpose of Project

The purpose of this project is to construct new substations at select locations system-wide to support additional traction power needs in preparation for new signal systems on the line.

## Units/Locations/Limits

Substations, system-wide

## Summary

The scope of these projects may include: repair/rehabilitate/construct new substations at select locations throughout the subway system, repair/replace all associated equipment like breakers, supervisory control and data acquisition (SCADA), cable and communication systems. Other work may include reconstruction ducts and installation of cables along portions of the subway where the existing ducts cannot be reused.

The budget for this project is \$317.6 million. This request is for \$80.81 million.

## Proposed Program of Projects Federal Fiscal Year 2020

|  |                              |
|--|------------------------------|
| <b>Agency</b>                                    | <b>ACEP ID</b>               |
| New York City Transit                            | T8090204                     |
| <b>Project Name</b>                              | <b>Planning Number / PIN</b> |
| Power Improvements for SigMod: Various Locations |                              |
| <b>County/Borough:</b> Multiple                  | <b>Zip Code</b> Multiple     |

### Object/Purpose of Project

The purpose of this project is to provide power improvements system-wide including new power substations and additional power cabling in support of sufficient traction power for greater train throughput.

### Units/Locations/Limits

Power improvements, system-wide

### Summary

This investment will help achieve the goal of improved traction power and providing greater train throughput system-wide. The scope of these projects may include: install new negative side feeders and equalizers along line structures at necessary locations in the four boroughs.

The budget for this project is \$514.6 million. This request is for \$46.36 million.

## Proposed Program of Projects Federal Fiscal Year 2020

|   |                              |
|---|------------------------------|
| <b>Agency</b>                             | <b>ACEP ID</b>               |
| New York City Transit                     | T8090401                     |
| <b>Project Name</b>                       | <b>Planning Number / PIN</b> |
| Circuit Breaker Houses: Various Locations |                              |
| <b>County/Borough:</b> Multiple           | <b>Zip Code</b> Multiple     |

**Object/Purpose of Project**  
The purpose of this project is to bring CBHs into a state of good repair to improve reliability and reduce service disruptions, system-wide.

**Units/Locations/Limits**  
Circuit Breaker Houses, system-wide

**Summary**  
The scope of work may include: repair/upgrade/replace the CBH roofs, windows, and lighting; install new breakers, supervisory control and data acquisition (SCADA), battery wiring and communication system.

The budget for this project is \$251.8 million. This request is for \$41.30 million.

## Proposed Program of Projects Federal Fiscal Year 2020

|  |                              |
|--|------------------------------|
| <b>Agency</b>                            | <b>ACEP ID</b>               |
| New York City Transit                    | T8090402                     |
| <b>Project Name</b>                      | <b>Planning Number / PIN</b> |
| Traction Power Cables: Various Locations |                              |
| <b>County/Borough:</b> Multiple          | <b>Zip Code</b> Multiple     |

### Object/Purpose of Project

The purpose of this project is to provide reliable power supply to trains and avoid "brakes in emergency" (BIEs). Rehabilitation of the cables and associated improvements will bring the negative return system into a state of good repair.

### Units/Locations/Limits

Negative Cables, system-wide

### Summary

The scope of work may include: replace all existing negative feeder cables negative equalizer cables, negative buses, and associated negative cable connections along selected lines Line in the four boroughs. The work will also include repairing manhole walls, ceilings, corroded steel, as well as repairing sliding doors and removing, as required, toxic materials.

The budget for this project is \$159.4 million. The request is for \$50.3 million.

## Proposed Program of Projects Federal Fiscal Year 2020

|                                 |                              |
|---------------------------------|------------------------------|
| <b>Agency</b>                   | <b>ACEP ID</b>               |
| New York City Transit           | T8090403                     |
| <b>Project Name</b>             | <b>Planning Number / PIN</b> |
| Miscellaneous Power Investments |                              |
| <b>County/Borough:</b> Multiple | <b>Zip Code</b> Multiple     |

**Object/Purpose of Project**  
The purpose of this project is to provide power improvements for advanced signals.

**Units/Locations/Limits**  
Power improvements, system-wide

**Summary**  
The scope of work for may include: remove existing contact rail and install low resistance 84-C contact rail on selected line in the four boroughs.

The budget for this project is \$133.7 million. This request is for \$19.44 million.

## Proposed Program of Projects Federal Fiscal Year 2020

|  |                              |
|--|------------------------------|
| <b>Agency</b>                                      | <b>ACEP ID</b>               |
| New York City Transit                              | T7100441                     |
| <b>Project Name</b>                                | <b>Planning Number / PIN</b> |
| Rail Car Acceptance and Testing Facility, Brooklyn | CM03-8207                    |
| <b>County/Borough:</b> Brooklyn                    | <b>Zip Code</b> 11232        |

### Object/Purpose of Project

The purpose of this project is to construct a facility in the 38th Street Yard that will accommodate the structure, utilities, equipment, and administrative functions required for the new railcar receiving operation.

### Units/Locations/Limits

New Railcar Receiving Facility, 38 St Yard, Brooklyn, NY

### Summary

This project will: remove/replace two existing yard tracks, build new foundation slab/footings for installation of facility, build a new concrete floor, deliver and install a butler building structure for facility's exterior walls/roof, build a platform adjacent to track nearest facility for inspection of railcars, install one 3-ton overhead bridge crane, install required HVAC, AC, and DC power systems, install overhead pit and task lighting, deliver two battery powered railcar movers with charging stations, provide space for DCE and vendor personnel.

The budget for this project is \$78.8 million. The request is for \$78.8 million.

## Proposed Program of Projects Federal Fiscal Year 2020

|   |                              |
|---|------------------------------|
| <b>Agency</b>                                       | <b>ACEP ID</b>               |
| New York City Transit                               | T7120418                     |
| <b>Project Name</b>                                 | <b>Planning Number / PIN</b> |
| Automated Fuel and Fluid Management Systems Phase 1 | SF04-2427                    |
| <b>County/Borough:</b> Multiple                     | <b>Zip Code</b> Multiple     |

**Object/Purpose of Project**  
This project will replace the end of useful life fuel management system with next-generation technology at 20 bus depot fuel lanes.

**Units/Locations/Limits**  
20 bus depot fuel lanes, system-wide

**Summary**  
The scope of work for these projects may include: modernize the dispensing of fuel and other fluids within all depots to facilitate and modernize analysis, reporting and forecasting of fluid use and needs, and eliminate related manual data entry and reconciliation. The first phase would install fuel management system at 20 bus depot fuel lanes. The project includes the installation of fuel management terminals, hoses, and associated equipment at all fuel lanes and maintenance bays at all MTA depots and maintenance facilities.

The budget for this project \$2.4 million. This request is for \$2.4 million.

# Proposed Program of Projects Federal Fiscal Year 2020

|  |                              |
|--|------------------------------|
| <b>Agency</b>                              | <b>ACEP ID</b>               |
| New York City Transit                      | T8120301                     |
| <b>Project Name</b>                        | <b>Planning Number / PIN</b> |
| Depot Component Repairs: Various Locations |                              |
| <b>County/Borough:</b> Multiple            | <b>Zip Code</b> Multiple     |

**Object/Purpose of Project**  
The purpose of this project is to address high-priority deficient components at depots, system-wide.

**Units/Locations/Limits**  
Depots, system-wide

**Summary**

This investment will help achieve the goal of addressing high-priority deficient components. The scope of work for these projects may include: remove/repair/replace existing roofing system, expansion joints and waterproofing to bring the system to a state of good repair . Other work may include: repair/replace chassis wash lifts and platform lifts provide a lead and asbestos abatement at various depots. The project will also assessment, the work may also include removing existing chassis wash and platform lifts and replace them with new lifts. Additional work will upgrade the HVAC system, boilers, and air curtains, at various depots. Work may include, asbestos and lead abatement, removal of existing units, installation of new heating units, installation of new building management system (BMS) to manage HVAC, and installation of new non-heated air curtains.

The budget for this project is \$229.7 million. The request is for \$45.85 million.



## Proposed Program of Projects Federal Fiscal Year 2020

**Agency**

New York City Transit

**ACEP ID**

T8120401

**Project Name**

Automatic Bus Lane Enforcement (ABLE), Phase 2

**Planning Number / PIN**

SF01-8921

**County/Borough:**

Multiple

**Zip Code**

Multiple

**Object/Purpose of Project**

This project will install bus camera systems for bus lane enforcement on all authorized Select Bus Service (SBS) routes.

**Units/Locations/Limits**

Bus Camera Systems, system-wide

**Summary**

The project will install automated bus lane camera systems to support bus lane enforcement on select bus routes throughout system-wide.

The budget for this project is \$85.0 million. The request is for \$85.0 million.

## Proposed Program of Projects Federal Fiscal Year 2020

|                                 |                              |
|---------------------------------|------------------------------|
| <b>Agency</b>                   | <b>ACEP ID</b>               |
| New York City Transit           | T8160402                     |
| <b>Project Name</b>             | <b>Planning Number / PIN</b> |
| Information Systems Upgrades    |                              |
| <b>County/Borough:</b> Multiple | <b>Zip Code</b> Multiple     |

**Object/Purpose of Project**  
This project will improve information systems for NYCT assets, system-wide.

**Units/Locations/Limits**  
Information systems, system-wide

**Summary**  
This project will improve the operating systems and servers at the Rail Control Center (RCC) and proposes to construct a redundant (mirror) site at the Backup Command Center (BCC) for all the critical systems with all required communication, power, and HVAC to provide true redundancy with the Rail Control Center (RCC).

The budget for this project is \$22.5 million. This request is for \$20.0 million.

## Proposed Program of Projects Federal Fiscal Year 2020

**Agency**

New York City Transit

**ACEP ID**

T8160701

**Project Name**

Subways Employee Facility Repairs: Various Locs

**Planning Number / PIN**

**County/Borough:** Multiple

**Zip Code** Multiple

**Object/Purpose of Project**

The purpose of this project is to improve the conditions at subway employee facilities, system-wide.

**Units/Locations/Limits**

Employee Facilities, system-wide

**Summary**

The scope of work for these projects may include: upgrade/replace/install electrical and mechanical infrastructure systems and provide additional redundant emergency systems.

The budget for this project is \$269.4 million. This request is for \$33.86 million.

## Proposed Program of Projects Federal Fiscal Year 2020

**Agency**

New York City Transit

**ACEP ID**

T8160703

**Project Name**

Misc./Administrative Facility Investments

**Planning Number / PIN**

**County/Borough:** Multiple

**Zip Code** Multiple

**Object/Purpose of Project**

The purpose of this project is to improve the conditions at employee facilities, system-wide.

**Units/Locations/Limits**

Various Employee Facilities, system-wide.

**Summary**

The scope of work for these projects may include: rehabilitate/construct/expand administrative and training facilities in the four boroughs.

This project has a budget of \$92.0 million. This request is for \$20.0 million.

## Proposed Program of Projects Federal Fiscal Year 2020

|                                 |                              |
|---------------------------------|------------------------------|
| <b>Agency</b>                   | <b>ACEP ID</b>               |
| Long Island Rail Road           | L8010102                     |
| <b>Project Name</b>             | <b>Planning Number / PIN</b> |
| Purchase Dual Mode Locomotives  |                              |
| <b>County/Borough:</b> Multiple | <b>Zip Code</b>              |

### Object/Purpose of Project

The existing Dual-Mode Locomotive fleet is aging and requires extensive upkeep and costly maintenance. The fleet is exceeding its useful life. Locomotive design will comply with the requirements of the USDOT Passenger Rail Investment and Improvement Act of 2008 (PRIIA).

### Units/Locations/Limits

Approximately 21 dual mode locomotives

### Summary

The purchase of Dual Mode Locomotives will help modernize the LIRR with new technologies, increase customer satisfaction, increase service reliability and reduce maintenance. Many of the existing Dual Mode Locomotives are aging and require extensive upkeep and maintenance and are approaching the end of their useful life.

The budget for this project is \$150.0 million. This request is for \$50.0 million.

## Proposed Program of Projects Federal Fiscal Year 2020

|                                 |                              |
|---------------------------------|------------------------------|
| <b>Agency</b>                   | <b>ACEP ID</b>               |
| Long Island Rail Road           | L8010103                     |
| <b>Project Name</b>             | <b>Planning Number / PIN</b> |
| Purchase Coaches                |                              |
| <b>County/Borough:</b> Multiple | <b>Zip Code</b>              |

### Object/Purpose of Project

This project will purchase approximately 37 diesel-hauled coaches to replace the existing aging coaches that were built by Kawasaki between 1997-1998.

### Units/Locations/Limits

Approximately 37 diesel hauled coaches

### Summary

The purchase of Diesel Hauled Coaches will help modernize the LIRR with new technologies, increase customer satisfaction, increase service reliability and reduce maintenance. Many of the existing Diesel-Hauled Coaches are aging and require extensive upkeep and maintenance and are approaching the end of their useful life.

The budget for this project is \$60.0 million. This request is for \$30.0 million.

# Proposed Program of Projects

## Federal Fiscal Year 2020

|   |                              |
|---|------------------------------|
| <b>Agency</b>                                 | <b>ACEP ID</b>               |
| Long Island Rail Road                         | L8020402                     |
| <b>Project Name</b>                           | <b>Planning Number / PIN</b> |
| Station Platform Components Various Locations |                              |
| <b>County/Borough:</b> Multiple               | <b>Zip Code</b>              |

### Object/Purpose of Project

This project will install tactile detectable warning strips at 25 LIRR stations lacking this safety feature. Installation of tactile strips will improve the safe use of these LIRR platforms by the visually impaired pedestrian to be able to safely travel independently. This project will address station platform component replacement, replacement of slabs, railing installation, signage, edge boards, track access staircases. Replacement of ornamental fencing, lighting, enhance accessibility components.

### Units/Locations/Limits

Various locations

### Summary

Work includes installing tactile detectable warning strips along the edge of LIRR platforms, adjacent to the track. This type of strip is a horizontal surface preparation that is easily detectable underfoot and by cane. It is placed at boundary locations between safe pedestrian areas and other potentially hazardous areas. This provides a warning to the pedestrian that they are entering an area of differing conditions such as a traffic crossing or in this case exiting the station's platform, crossing a gap and entering a train car. Station platform component replacement activities. Brentwood and Central Islip overpass fencing, lighting, various components. Northport platform replacement.

The budget for this project is \$252.1million. This request is for \$38.4 million.

# Proposed Program of Projects

## Federal Fiscal Year 2020

|   |                              |
|---|------------------------------|
| <b>Agency</b>                                 | <b>ACEP ID</b>               |
| Long Island Rail Road                         | L8020403                     |
| <b>Project Name</b>                           | <b>Planning Number / PIN</b> |
| Station Building Components Various Locations |                              |
| <b>County/Borough:</b> Multiple               | <b>Zip Code</b>              |

### Object/Purpose of Project

This project will replace station building components at various stations. Replacement components consists of doors, windows, HVAC, restrooms, roofs, and painting. Many LIRR stations have aged and deteriorated, therefore require upgrades to the station building to continue to serve their intended function. A majority of this effort will be performed by MTA Mentor contractor's which supplement Platform Component Replacement and other projects. Replace retaining wall adjacent to Sea Cliff Station.

### Units/Locations/Limits

Systemwide; Sea Cliff Station.

### Summary

Station building component replacement will allow the repair, replacement or upgrade of station components to support customer safety, comfort and positive experience. Those component replacement activities include, but are not limited to; doors, windows, HVAC, restrooms, roofs, and painting. Sea Cliff - new ADA ramps, retaining wall, concrete sidewalk affected by work.

The budget for this project is \$6.9 million. This request is for \$4.12 million.



## Proposed Program of Projects Federal Fiscal Year 2020

|                                 |                              |
|---------------------------------|------------------------------|
| <b>Agency</b>                   | <b>ACEP ID</b>               |
| Long Island Rail Road           | L8020408                     |
| <b>Project Name</b>             | <b>Planning Number / PIN</b> |
| Mentor Allowance - Stations     |                              |
| <b>County/Borough:</b> Multiple | <b>Zip Code</b>              |

### Object/Purpose of Project

This project provides for construction contracts through the MTA's Small Business Mentor Program in support of various station projects in the LIRR's 2020 - 2024 Capital Program.

### Units/Locations/Limits

### Summary

This request is for construction work undertaken as part of the MTA's Small Business Mentor Program. Work activities include, but are not limited to; replacement of fencing, platform railings, shelter sheds, canopies, lighting, replacement / renewal of various components, and full replacement of signage.

The budget for this project is \$16.0 million. This request is for \$7.59 million.

# Proposed Program of Projects

## Federal Fiscal Year 2020

**Agency**

Long Island Rail Road

**ACEP ID**

L8020501

**Project Name**

Parking Rehabilitation & Access Improvements

**Planning Number / PIN****County/Borough:**

Suffolk

**Zip Code**

11779

**Object/Purpose of Project**

This project will rehabilitate the existing Ronkonkoma Parking Garage located in Ronkonkoma on the Ronkonkoma Branch. The Ronkonkoma Parking Garage is a LIRR - owned commuter parking facility that was built in 1997 and is located adjacent to the Ronkonkoma Station. Ronkonkoma is the end point of electrification on the LIRR's Main Line and serves as a major commuter hub for central Suffolk County. The station has over 6,000 parking spaces, including 1,038 spaces located within the Ronkonkoma Parking Garage. Station access improvements; and surface parking rehabilitation and expansion.

**Units/Locations/Limits**

Ronkonkoma in Suffolk County; various locations

**Summary**

Work activities include, but are not limited to; blast cleaning, repair of steel structural members, painting of all exposed interior steel and other miscellaneous repairs. Portions of rehabilitation work have been completed under prior Capital Programs projects such as; exterior painting, staircase tower rehabilitation, fire alarm and standpipe systems replacement.

The budget for this project is \$17.1 million. This request is for \$12.8 million.

## Proposed Program of Projects Federal Fiscal Year 2020

**Agency**

Long Island Rail Road

**ACEP ID**

L8020601

**Project Name**

Penn Station HVAC, Platform & Building Improvement

**Planning Number / PIN****County/Borough:**

Manhattan

**Zip Code**

10001

**Object/Purpose of Project**

This project provides for the rehabilitation of platform surface, tactile edging, structural repairs, platform repairs (7 and 8), platform lighting, column cladding, granite tiles, painting, stairway rehabilitation, and the completion of the staircases that began in the 2015 - 2019 Capital Program.

**Units/Locations/Limits**

Pennsylvania Station in midtown Manhattan, between Seventh and Eighth Avenue and between 31st and 33rd Streets in Manhattan

**Summary**

Work activities include, but are not limited to; platform resurfacing, platform repairs (7 and 8), tactile edging, structural repairs, platform lighting, granite tiles, painting, column cladding, new ceiling system, LED lighting, multiple staircases replacement and/or renovation, track to platform height corrections and concourse lighting improvements.

The budget for this project is \$39.4 million. This request is for \$7.2 million.

# Proposed Program of Projects Federal Fiscal Year 2020

|  |                              |
|--|------------------------------|
| <b>Agency</b>                          | <b>ACEP ID</b>               |
| Long Island Rail Road                  | L8030101                     |
| <b>Project Name</b>                    | <b>Planning Number / PIN</b> |
| Construction Equipment & Geometry Cars |                              |
| <b>County/Borough:</b> Multiple        | <b>Zip Code</b>              |

## Object/Purpose of Project

The purpose of this project is to procure various new construction equipment that will support the multitude of construction projects scheduled for the LIRR 2020 - 2024 Capital Program. The new equipment will support regular maintenance tasks and outdated equipment will be replaced.

## Units/Locations/Limits

Systemwide

## Summary

Equipment to be purchased under this program include, but are not limited to; the following: new ballast cars, concrete tie job support equipment, surfacing, cranes, tamper, loaders, mechanized tie and rail, snow fighting equipment, brush cutters, and other miscellaneous equipment. This project may also include a rehabilitation/building of the TC-82 Track Inspection Vehicles.

The budget for this project is \$55.0 million. This request is for \$40.0 million.

# Proposed Program of Projects Federal Fiscal Year 2020

|                                       |                              |
|---------------------------------------|------------------------------|
| <b>Agency</b>                         | <b>ACEP ID</b>               |
| Long Island Rail Road                 | L8030102                     |
| <b>Project Name</b>                   | <b>Planning Number / PIN</b> |
| Retaining Walls/Right-of-Way Projects |                              |
| <b>County/Borough:</b> Multiple       | <b>Zip Code</b>              |

|                                  |
|----------------------------------|
| <b>Object/Purpose of Project</b> |
|----------------------------------|

This project will provide retaining wall and Right-of-Way improvements at locations throughout the LIRR network. This project will construct high security fencing along the LIRR Right-of-Way, to enhance safety and security within the communities LIRR serves. This will replace existing deteriorated fencing and/or install fencing in locations where fencing currently does not exist.

|                               |
|-------------------------------|
| <b>Units/Locations/Limits</b> |
|-------------------------------|

|                   |                                   |
|-------------------|-----------------------------------|
| Various locations | Approximately 38 miles of fencing |
|-------------------|-----------------------------------|

|                |
|----------------|
| <b>Summary</b> |
|----------------|

Work activities include, but are not limited to; renewing, replacing or upgrading of retaining wall components, extending existing retaining walls, replacing existing deteriorated wood railroad tie walls, backfilling the structures, surfacing existing track and replacement of track shoulders. It also includes rehabilitation of culverts, including drainage, installation of new culverts and headwalls, track reliability/retaining walls, as well as, slope and overflow protection and Right-of-Way and track drainage improvements. This project will install fencing along the LIRR Right-of-Way to enhance safety and security and prevent unauthorized entry into the Right-of-Way. Fencing will be installed at locations to be identified based upon a listing of priority sites

The budget for this project is \$15.0 million. This request is for \$5.4 million.

## Proposed Program of Projects Federal Fiscal Year 2020

|                                 |                              |
|---------------------------------|------------------------------|
| <b>Agency</b>                   | <b>ACEP ID</b>               |
| Long Island Rail Road           | L8030103                     |
| <b>Project Name</b>             | <b>Planning Number / PIN</b> |
| Yard Track Rehabilitations      |                              |
| <b>County/Borough:</b> Multiple | <b>Zip Code</b>              |

### Object/Purpose of Project

This project will rehabilitate track structure and switches in yards that are beyond their useful life at various locations. Currently, LIRR's track structure and switches are high maintenance and are in need of replacement. West Side Storage Yard rehab of walkways, switches, direct fixation,

### Units/Locations/Limits

Jamaica Storage Yard, Port Washington and various other locations, West Side Storage Yard

### Summary

Yard track rehabilitations activities include, but are not limited to; replacement of existing track infrastructure (switches, rail, ties, clips, plates, etc.) and installation of yard switch machine heaters as needed. WSY rehab of walkways, switches, direct fixation.

The budget for this project is \$28.0 million. This request is for \$24.0 million.

# Proposed Program of Projects Federal Fiscal Year 2020

**Agency**

Long Island Rail Road

**ACEP ID**

L8030104

**Project Name**

Annual Track Program

**Planning Number / PIN****County/Borough:** Multiple**Zip Code****Object/Purpose of Project**

The purpose of this project is to continue the cyclical State of Good Repair (SGR) track program, based upon age and condition. The annual replacement needs are designed to replace segments of track before defects occur, and to ensure reliability of service by avoiding unscheduled/lengthy delays due to track failure. This serves to maximize work efficiency while also minimizing impacts to customers. This project will install concrete ties at various locations as outages allow.

**Units/Locations/Limits**

Systemwide

**Summary**

Major track component activities include, but are not limited to; replacing switches, new switches in the Queens Interlocking for ML3T Readiness, cyclical replacement of mechanized ties, thermite welding, Continuous Welded Rail (CWR), wood ties, concrete turnouts, wood turnouts, grade crossing renewal, track surfacing and surfacing of interlocking switches, undercutting, rail profiling and joint elimination. Work is performed throughout the LIRR system, with selected branches or branch segments targeted to maximize the use of track time and to coordinate track outages with other infrastructure work. Work activities include, but are not limited to; removing approximately 100,000 existing ties and replacing them with concrete ties at various locations.

The budget for this project is \$585.0 million. This request is for \$262.6 million.

## Proposed Program of Projects Federal Fiscal Year 2020

**Agency**

Long Island Rail Road

**ACEP ID**

EL0303ZT

**Project Name**

Long Beach Branch Elevation Improvements

**Planning Number / PIN****County/Borough:** Nassau**Zip Code** 11561**Object/Purpose of Project**

This project will raise the elevation of the LIRR infrastructure that frequently floods along the Long Beach Branch. Flooding can cause service to be suspended on the branch for extended periods of time. The section of trackage from approximately Oceanside Station to Wreck Lead Bridge is highly susceptible to unusually high tides, severe rain events, storm surge and hurricanes. This project will raise the height of the Right-of-Way by approximately 4 inches and will cover the area between Atlantic Avenue in Oceanside and Long Beach Road in Island Park.

**Units/Locations/Limits**

East of Atlantic Avenue Grade Crossing to Wreck Lead Bridge on the Long Beach Branch

**Summary**

The activities for this project include, but are not limited to; incrementally raising the low-lying track which will reduce/prevent infrastructure damage and service disruptions which are caused by flooding conditions.

The budget for this project is \$10.0 million. This request is for \$10.0 million.



## Proposed Program of Projects Federal Fiscal Year 2020

**Agency**

Long Island Rail Road

**ACEP ID**

L8030403

**Project Name**

E Yard Extension

**Planning Number / PIN****County/Borough:** Queens**Zip Code** 11435**Object/Purpose of Project**

This project will construct a new closed-deck rail bridge over 150th Street and Atlantic Track 1. This project is an element of Jamaica Capacity Improvements – Phase II, which completes the Jamaica reconfiguration, increasing overall capacity, reducing customer travel time and improving system reliability. The eastern extension of E-Yard tracks over 150th Street and the modifications to Guy Brewer Blvd. Bridge structures will add new routes through the center of the Hall interlocking with access to Main Line and Montauk Branch Tracks.

**Units/Locations/Limits**

Hall Interlocking, Jamaica Station

**Summary**

The project will require the construction of a new closed-deck rail bridge over 150th Street and Atlantic Track #1 which includes; new track, turnouts/crossovers, third rail, utility conveyance systems, associated retaining structures, structural modifications at Guy Brewer Blvd. and extending/raising Tracks E2 and E3.

The budget for this project is \$100.0 million. This request is for \$100.0 million.

## Proposed Program of Projects Federal Fiscal Year 2020

|   |                              |
|---|------------------------------|
| <b>Agency</b>                                 | <b>ACEP ID</b>               |
| Long Island Rail Road                         | L8040101                     |
| <b>Project Name</b>                           | <b>Planning Number / PIN</b> |
| Painting, Drainage & Waterproofing of Bridges |                              |
| <b>County/Borough:</b> Multiple               | <b>Zip Code</b>              |

### Object/Purpose of Project

This project will provide for painting based upon prioritization established by the LIRR's Engineering Department. Bridge painting reduces maintenance and prolong the life of the structure. Painting improves the aesthetic qualities of bridges and viaducts and advances the LIRR's overall efforts to improve the condition of bridges and viaducts, bringing them closer to a state of good repair. Drainage and waterproofing for various bridges and viaducts.

### Units/Locations/Limits

Manhasset Viaduct, Wreck Lead Bridge, and Main Street (Southampton), and other various locations; Beaver Viaduct and various locations.

### Summary

Work activities include painting various bridges and viaducts. Painting efforts advanced through this program will also improve the aesthetic qualities of the bridges and advance the railroad's overall efforts to improve the condition of bridges and viaducts, maintaining them in a state of good repair. Upgradig and renewing drainage and waterproofing various bridges, keep state of good repair.

The budget for this project is \$36.2 million. This request is for \$10.2 million.

## Proposed Program of Projects Federal Fiscal Year 2020

**Agency**

Long Island Rail Road

**ACEP ID**

L8040102

**Project Name**

Replacement and Rehabilitation of Bridges

**Planning Number / PIN****County/Borough:** Nassau**Zip Code** 11530**Object/Purpose of Project**

This project will replace LIRR bridge (No. 60-O-182) over Cherry Valley Road and will increase vertical clearance, reduce maintenance and bring the structure to a state of good repair. The bridge has one span with a total bridge length of approximately 86 feet. The two LIRR electrified tracks are tangent across the bridge. The Hempstead Branch has a posted speed of 60 mph.

When the bridge was built in 1871 vehicular traffic below was significantly different. With the current vertical clearance posted at 10'-4" bridge strikes by vehicles have been a common occurrence at this location. The age of the bridge and frequency of bridge strikes have made replacement a priority for the LIRR.

**Units/Locations/Limits**

Cherry Valley Road, Garden City, LIRR Hempstead Branch

**Summary**

Work includes replacing the LIRR bridge (No. 60-O-182) over Cherry Valley Road to increase vertical clearance, reduce maintenance and bring the structure to a state of good repair.

The budget for this project is \$126.1 million. This request is for \$40.8 million.

## Proposed Program of Projects Federal Fiscal Year 2020

|                                 |                              |
|---------------------------------|------------------------------|
| <b>Agency</b>                   | <b>ACEP ID</b>               |
| Long Island Rail Road           | L8040103                     |
| <b>Project Name</b>             | <b>Planning Number / PIN</b> |
| Miscellaneous Bridge Work       |                              |
| <b>County/Borough:</b> Multiple | <b>Zip Code</b>              |

### Object/Purpose of Project

The Bridge Program will rehabilitate and or replace railroad bridges and or overpasses. Additional bridges will be included in this project based upon the most recent bridge inspections and need for structural rehabilitation/replacement. Murray Hill ROW concrete panel fencing

### Units/Locations/Limits

Various locations; Murray Hill, Pt Wash Br, Approx 6,000 ft. high security fencing, 2,700 ft. new guardrail.

### Summary

Rehabilitation of work will consist of girder repairs, diaphragm and stiffener rehabilitation, deck and under-deck rehabilitation, and substructure repairs. Additional bridges will be included in this project to be identified based upon the most recent bridge inspections and need for structural rehabilitation/replacement. Murray Hill ROW concrete panel fencing, concrete spalls on existing retaining walls repair.

The budget for this project is \$72.4 million. This request is for \$8.3 million.

## Proposed Program of Projects Federal Fiscal Year 2020

|  |                              |
|--|------------------------------|
| <b>Agency</b>                              | <b>ACEP ID</b>               |
| Long Island Rail Road                      | L8040104                     |
| <b>Project Name</b>                        | <b>Planning Number / PIN</b> |
| Small Business Mentoring Program - Bridges |                              |
| <b>County/Borough:</b> Multiple            | <b>Zip Code</b>              |

### Object/Purpose of Project

This project provides for the construction contracts through MTA's Small Business Mentor Program in support of various Line Structure projects in the LIRR's 2020 - 2024 Capital Programs.

### Units/Locations/Limits

Various locations

### Summary

This request is for the construction work undertaken as part of the MTA's Small Business Mentor Program. Work activities include, but are not limited to painting various bridges. Painting efforts advanced through this program will also improve the aesthetic qualities of the bridges and advance the railroad's overall efforts to improve the condition of bridges and viaducts, and maintaining them in a state of good repair.

The budget for this project is \$33.8 million. This request is for \$7.78 million.

## Proposed Program of Projects Federal Fiscal Year 2020

|                                 |                              |
|---------------------------------|------------------------------|
| <b>Agency</b>                   | <b>ACEP ID</b>               |
| Long Island Rail Road           | L8050101                     |
| <b>Project Name</b>             | <b>Planning Number / PIN</b> |
| Communication Pole Line         |                              |
| <b>County/Borough:</b> Multiple | <b>Zip Code</b>              |

### Object/Purpose of Project

The purpose of this project is to survey and replace the deteriorated line poles and applicable hardware at various locations along the railroad Right-of-Way. These poles carry the cable lines providing communication services to the LIRR. This includes fiber optic cable (data, telephones, CCTV), signal cabling, supervisory systems, substation control lines, and assorted communication copper cables.

### Units/Locations/Limits

Replace approximately 125 poles per year at various locations

### Summary

This project includes removal of non-hazardous cable, identifying asbestos containing material for abatement, replacing existing poles, removing old poles, installation of new poles as needed to rebuild existing and failing pole lines. Ancillary hardware at locations identified by the condition assessment would also be replaced including existing deteriorated anchors, insulators, brackets, ground rods/clamps, U Guards, hand holes, c-cases, pole mounted cable boxes and all other hardware as applicable will be replaced with new line equipment.

The budget for this project is \$8.0 million. This request is for \$4.0 million.

## Proposed Program of Projects Federal Fiscal Year 2020

**Agency**

Long Island Rail Road

**ACEP ID**

L8050102

**Project Name**

Comm Component Replacement

**Planning Number / PIN****County/Borough:**

Multiple

**Zip Code****Object/Purpose of Project**

This project will address the State of Good Repair (SGR) backlog in communication component replacement.

**Units/Locations/Limits**

Systemwide

**Summary**

Communication component replacement work activities include, but are not limited to; the replacement of battery strings, and screens.

The budget for this project is \$8.0 million. This request is for \$4.0 million.

## Proposed Program of Projects Federal Fiscal Year 2020

|                                 |                              |
|---------------------------------|------------------------------|
| <b>Agency</b>                   | <b>ACEP ID</b>               |
| Long Island Rail Road           | L8050103                     |
| <b>Project Name</b>             | <b>Planning Number / PIN</b> |
| Fiber Optic Network             |                              |
| <b>County/Borough:</b> Multiple | <b>Zip Code</b>              |

### Object/Purpose of Project

This project will replace legacy Dense Wavelength Division Multiplexing (DWDM) core and stations access nodes installed under the 2010 - 2014 Capital Program with new industry carrier class IP/MPLS equipment supporting high bandwidth at stations.

### Units/Locations/Limits

Approximately 57 legacy DWDM core and stations access nodes

### Summary

This project will replace approximately fifty-seven (57) of the one hundred and fourteen (114) legacy DWDM core and stations access nodes installed under the MTA 2010 - 2014 Capital Program with new industry carrier class IP/MPLS equipment supporting high bandwidth at stations.

The budget for this project is \$20.0 million. This request is for \$7.60 million.



# Proposed Program of Projects Federal Fiscal Year 2020

**Agency**

Long Island Rail Road

**ACEP ID**

L8050201

**Project Name**

Babylon Interlocking Renewal & New Sidings

**Planning Number / PIN****County/Borough:**

Suffolk

**Zip Code**

11704

**Object/Purpose of Project**

Babylon Interlocking Renewal will renew and upgrade the existing signal equipment in Babylon Interlocking on the Montauk Branch. The existing system was originally installed in the 1960's and has exceeded its useful life. Project benefits include significant improvement of the on-time performance, reducing the number of delays resulting from signal system failures within train traffic territory and reduced maintenance cost of the signal system.

**Units/Locations/Limits**

Babylon Interlocking on the Montauk Branch

**Summary**

The work for this project includes replacing switches, signals, cables, highway-rail crossing gate mechanisms, impedance bonds, cases and associated components. In support of this work new signal bridges, duct banks and retaining walls must also be installed.

The budget for this project is \$60.9 million. This request is for \$52.9 million.

## Proposed Program of Projects Federal Fiscal Year 2020

**Agency**

Long Island Rail Road

**ACEP ID**

L8050205

**Project Name**

Signal Replacement and Interlocking Improvements

**Planning Number / PIN**

**County/Borough:** Multiple

**Zip Code**

**Object/Purpose of Project**

The purpose of this project is to renew and upgrade the existing signal equipment throughout the entire signal system in order to maintain a state of good repair. This project will replace various signal system components that have reached and/or exceeded their useful life based on a recent condition assessment. The prioritization of equipment replacement will be based upon equipment failure instances and field surveys. Upgrade and replace Lightning Protection.

**Units/Locations/Limits**

Systemwide

**Summary**

The signal equipment to be replaced includes, but is not limited to, relays, cables, batteries, switch machines, huts, signals, crossing gate mechanisms, impedance bonds, cases and associated components. Upgrade and replace Lightning Protection.

The budget for this project is \$60.40 million. This request is for \$37.0 million.

## Proposed Program of Projects Federal Fiscal Year 2020

**Agency**

Long Island Rail Road

**ACEP ID**

L8060101

**Project Name**

Rolling Stock Support Shop Equipment

**Planning Number / PIN**

**County/Borough:** Queens

**Zip Code** 11423

**Object/Purpose of Project**

This project provides a cyclical replacement and refurbishment of miscellaneous shop equipment. The specialized equipment used to maintain LIRR rolling stock has reached the end of its useful life and must be replaced or refurbished.

**Units/Locations/Limits**

LIRR Hillside Maintenance Complex, Hollis, NY

**Summary**

This project will replace and refurbish rolling stock support shop equipment.

The budget for this project is \$43.4 million. This request is for \$4.0 million.

# Proposed Program of Projects Federal Fiscal Year 2020

**Agency**

Long Island Rail Road

**ACEP ID**

L8060102

**Project Name**

Shop Improvements at Various Locations

**Planning Number / PIN****County/Borough:** Queens**Zip Code** 11423**Object/Purpose of Project**

The existing aging LIRR Hillside Support Facility and Hillside Maintenance Complex car maintenance shops, require maintenance and upgrading in preparation for the implementation of LIRR's new M9 fleet and maintenance of the existing rolling stock. Work for this project will upgrade and maintain the aging car maintenance shops at the LIRR's Hillside Maintenance Complex and the adjacent Hillside Support Facility. Morris Pk Turntable Repl Design; East Maint Shop Expansion; WS Shop Improvements design.

**Units/Locations/Limits**

LIRR Hillside Maintenance Complex, Hollis, NY

**Summary**

Work activities include, but are not limited to; improvements to the layout of equipment and office spaces, employee ready/breakaway room, replacement of communication systems, installation of safety shunt jumper on high voltage cable to running rails in shops and general maintenance of the aging shops.

The budget for this project is \$12.6 million. This request is for \$1.04 million.

## Proposed Program of Projects Federal Fiscal Year 2020

|  |                              |
|--|------------------------------|
| <b>Agency</b>                          | <b>ACEP ID</b>               |
| Long Island Rail Road                  | L8060103                     |
| <b>Project Name</b>                    | <b>Planning Number / PIN</b> |
| Yard Improvements at various locations |                              |
| <b>County/Borough:</b> Queens          | <b>Zip Code</b> 11418        |

### Object/Purpose of Project

The purpose of this project is to address the Jamaica Storage Yard- Ladder Track switches alignment and configuration. The LIRR Corporate Safety Department seeks to improve safety and operational characteristics of the existing and aging Ladder Track serving the Jamaica Storage Yard. Historic observations and investigations indicate substandard track geometry are a contributing factor to frequent derailments experienced on this section of track. Derailments at this location cause adverse operational service impacts, rolling stock impacts, yard impacts and equipment storage impacts. Pt. Wash Track Extensions; Mid Suffolk Yd, Ph 2; EIC Platform design.

### Units/Locations/Limits

LIRR Jamaica Storage Yard, Richmond Hill, NY

### Summary

The intent of this project is to reconfigure the Ladder Track and eliminate or reduce the potential for derailments, reduce rail incidents at this location and ultimately improve railroad performance.

The budget for this project is \$60.5 million. This request is for \$6.8 million.

## Proposed Program of Projects Federal Fiscal Year 2020

|  |                              |
|--|------------------------------|
| <b>Agency</b>                                    | <b>ACEP ID</b>               |
| Long Island Rail Road                            | L8060104                     |
| <b>Project Name</b>                              | <b>Planning Number / PIN</b> |
| Small Business Mentoring Program - Shops & Yards |                              |
| <b>County/Borough:</b> Multiple                  | <b>Zip Code</b>              |

### Object/Purpose of Project

This project provides for construction contracts through the MTA's Small Business Mentor Program in support of various Shops and Yards projects in the LIRR's 2020 - 2024 Capital Program.

### Units/Locations/Limits

Various locations

### Summary

This request is for the construction of work undertaken as part of the MTA's Small Business Mentor Program. Work activities at various maintenance and repair shops and yards include, but are not limited to; replacement of deteriorating roofing systems, lightning protection systems, a concrete loading dock, milling and paving of driveways and walkways, new train roof access platform, HVAC systems and windows and doors.

The budget for this project is \$2.4 million. This request is for \$.96 million.

# Proposed Program of Projects

## Federal Fiscal Year 2020

**Agency**

Long Island Rail Road

**ACEP ID**

L8060401

**Project Name**

Rehabilitation of Employee Facilities - Various Locations

**Planning Number / PIN****County/Borough:** Queens**Zip Code** 11418**Object/Purpose of Project**

The purpose of this project is to replace the existing deteriorating wood employee platforms at the Bolands Landing employee stop. Existing platforms are constructed of deteriorating wood which is uncommon for platform construction. The Bolands Landing stop is for LIRR employees only and serves the LIRR's Morris Park and nearby employee facilities. The stop has two platforms located just east of the Atlantic Ave. tunnel portal, one eastbound and one westbound platform, both serve two Multiple Unit (MU) cars. Rehab employee facilities, shops, towers, yards, offices, state of good repairs. Rehab and Renew facilities ground surfaces.

**Units/Locations/Limits**

LIRR Atlantic Branch, Morris Park, Richmond Hill, NY; Eastern and Western employee facilities; Hillside Facility; Upper Holban and other various locations. Paving, various locations.

**Summary**

This project will replace the wood platforms with new standard high-level concrete slabs, including stairs, handrails and LED lighting. Existing platforms are constructed of deteriorating wood which is now quite uncommon for platform construction. Rehab employee facilities, shops, towers, yards, offices, state of good repairs. Rehab and Renew facilities ground surfaces.

The budget for this project is \$43.2 million. This request is for \$12.0 million.

## Proposed Program of Projects Federal Fiscal Year 2020

**Agency**

Long Island Rail Road

**ACEP ID**

L8060405

**Project Name**

Small Business Mentoring Program Emp. Facs.

**Planning Number / PIN****County/Borough:**

Multiple

**Zip Code****Object/Purpose of Project**

This project provides for construction contracts through the MTA's Small Business Mentor Program in support of various Shops and Yards (Employee Facilities) projects in the LIRR's 2020 - 2024 Capital Program.

**Units/Locations/Limits**

Various locations

**Summary**

This request is for the construction of work undertaken as part of the MTA's Small Business Program. Work activities at various Shops and Yards (Employee Facilities) projects include, but are not limited to; replacement of deteriorating roofing systems, lightning protection systems, milling and paving of driveways and walkways, HVAC systems and windows and doors.

The budget for this project is \$21.8 million. This request is for \$8.16 million.



# Proposed Program of Projects

## Federal Fiscal Year 2020

**Agency**

Long Island Rail Road

**ACEP ID**

L8070101

**Project Name**

Substation Replacements

**Planning Number / PIN****County/Borough:** Multiple**Zip Code****Object/Purpose of Project**

This project will replace traction power substations at various LIRR locations. Included in this project is the demolition/removal of existing substation buildings with their components and installation of new substation equipment in modular buildings. The existing substations at these locations have exceeded their useful lives and are in need of replacement.

**Units/Locations/Limits**

Queens Breaker House, Rosedale, Murray Hill, Grand Ave, Bayside, Jamaica, Winfield, and Forest Hills

**Summary**

Substation replacements include removing the existing switchgear, rectifiers, transformers and demolishing the existing building and installing modular buildings. The modular buildings will contain new alternate current (AC) switchgear and transformers, pre-wired rectifier(s), direct current (DC) switchgear, DC breakers, control cabinets and associated equipment preinstalled. New cables will be installed to the AC switchgear and to third rail. All other associated substation component infrastructure including high tension feeders, DC cables, control cables, fiber optic cables, conduit, manholes, fire alarms, and associated equipment will be provided as necessary.

The budget for this project is \$80.0 million. This request is for \$32.0 million.

# Proposed Program of Projects Federal Fiscal Year 2020

**Agency**

Long Island Rail Road

**ACEP ID**

L8070102

**Project Name**

Lighting Improvements

**Planning Number / PIN****County/Borough:** Queens**Zip Code** 11418, 11421**Object/Purpose of Project**

The purpose of this project is to continue the cyclical State of Good Repair (SOG) replacement of the tunnel lighting components in the Atlantic Avenue tunnel. The program is based on a twenty-five-year useful life of fixtures, switchgear and wiring due to the highly corrosive environment in which they reside. Replace high mast poles and light fixtures with new poles and LED lights, HSF yard, and other locations.

**Units/Locations/Limits**

Atlantic Avenue Tunnel - Dunton to Woodhaven tunnel segments (completion of effort from the last Capital Program); HSF Yd - approximately 29 poles at HSF.

**Summary**

The scope of work includes replacement of all components (wire, cable, conduit, fixtures and switchgear) in tunnel segments between the Dunton and Woodhaven. Replace high mast poles and light fixtures with new poles and LED lights, HSF yard, and other locations.

The budget for this project is \$18.0 million. This request is for \$14.0 million.

# Proposed Program of Projects

## Federal Fiscal Year 2020

|  |                              |
|--|------------------------------|
| <b>Agency</b>                            | <b>ACEP ID</b>               |
| Long Island Rail Road                    | L8070103                     |
| <b>Project Name</b>                      | <b>Planning Number / PIN</b> |
| Power Component Repairs and Replacements |                              |
| <b>County/Borough:</b> Multiple          | <b>Zip Code</b>              |

### Object/Purpose of Project

The purpose of this project is to replace platform and station lighting, while upgrading lights to high efficiency LED. The cyclical State of Good Repair (SGR) will replace station lighting systems including the existing lighting fixtures, conduits, cables and electric service at several station platforms/canopies. Substation Component renewals; 3rd rail negative reactors; batteries and associated equipment inside substations; signal power motor generators and associated equipment; DC breaker protection and auto reclose; Power pole lines and applicable hardware; 4,160 Volt Feeder power lines.

### Units/Locations/Limits

Various locations

### Summary

This project will replace platform and station lighting, while upgrading lights to high efficiency LEDs at four to five stations per program. Substation Component renewals; 3rd rail negative reactors; batteries and associated equipment inside substations; signal power motor generators and associated equipment; DC breaker protection and auto reclose; Power pole lines and applicable hardware; 4,160 Volt Feeder power lines.

The budget for this project is \$55.0 million. This request is for \$22.20 million.

## Proposed Program of Projects Federal Fiscal Year 2020

**Agency**

Long Island Rail Road

**ACEP ID**

L8070104

**Project Name**

Third Rail Upgrades

**Planning Number / PIN****County/Borough:** Multiple**Zip Code****Object/Purpose of Project**

This project will replace and upgrade third rail feeder cable and associated system components in areas where it is beyond its useful life and is undersized to properly support electric fleet operations. Replacement will be undertaken at various locations throughout LIRR's electric territory, based upon priority locations identified by the Power Department. This project also includes the removal of the old feeder cables. DC Feeder Disconnect Switches; Protection Board & Aluminum Rail.

**Units/Locations/Limits**

Approximately 5,900 linear feet of duct lines and 53,000 linear feet of 2000 MCM Cable throughout LIRR's electric territory; 176 3rd rail disconnect switches; 69,200 lf/yr protection board; 32,200 lf/yr aluminum rail system wide.

**Summary**

This project will replace/upgrade approximately 5,900 linear feet of duct lines and 53,000 linear feet of 2000 MCM cable at various locations where it is deteriorated and/or beyond its useful life. The old cable will be removed, and the new ducts and cables will be installed. This includes double feeds to all expansion gaps, transpositions and substation feeds. DC Feeder Disconnect Switches; Protection Board & Aluminum Rail.

The budget for this project is \$43.0 million. This request is for \$16.60 million.

# Proposed Program of Projects

## Federal Fiscal Year 2020

|   |                              |
|---|------------------------------|
| <b>Agency</b>                           | <b>ACEP ID</b>               |
| Long Island Rail Road                   | L8070105                     |
| <b>Project Name</b>                     | <b>Planning Number / PIN</b> |
| Central Branch Electrification          |                              |
| <b>County/Borough:</b> Nassau / Suffolk | <b>Zip Code</b> 11714, 11735 |

### Object/Purpose of Project

The purpose of this project is to electrify the LIRR's Central Branch and all the infrastructure improvements that are necessary to support the use of electric Multiple Unit (MU) train equipment on the Branch. The Central Branch connects the LIRR's electrified Main Line (ML) at Farmingdale with the electrified Montauk Branch at Babylon in Suffolk County. The western end of the Central Branch begins on the ML at Bethpage Interlocking (between Bethpage and Farmingdale Stations). The Branch proceeds southeast connecting with the Montauk Branch at Belmont Junction (Babylon Interlocking ) between Lindenhurst and Babylon Stations.

### Units/Locations/Limits

The locations are at the western end of the Central Branch between Bethpage and Farmingdale Stations and continues southeast connecting with the Montauk Branch at Babylon Interlocking between Lindenhurst and Babylon Stations.

### Summary

The work activities for this project will include, but are not limited to; site preparation, drainage, track construction, grade crossings, signal improvements, power infrastructure improvements, utility work and systems integration.

The budget for this project is \$230.0 million. This request is for \$230.0 million.

## Proposed Program of Projects Federal Fiscal Year 2020

**Agency**

Long Island Rail Road

**ACEP ID**

L8090410

**Project Name**

Program Administration

**Planning Number / PIN**

**County/Borough:** Multiple

**Zip Code**

**Object/Purpose of Project**

This project provides support for the implementation of capital projects, including ongoing general administrative functions by in-house personnel.

**Units/Locations/Limits**

Systemwide

**Summary**

Work under this project will support the implementation of projects under the Capital Program.

The budget for this project is \$138.0 million. This request is for \$138.0 million.

## Proposed Program of Projects Federal Fiscal Year 2020

|                                 |                              |
|---------------------------------|------------------------------|
| <b>Agency</b>                   | <b>ACEP ID</b>               |
| Long Island Rail Road           | TRANTECH                     |
| <b>Project Name</b>             | <b>Planning Number / PIN</b> |
| Transit Technical Assistance    |                              |
| <b>County/Borough:</b> Multiple | <b>Zip Code</b>              |

### Object/Purpose of Project

This project provides for the development and implementation of a comprehensive marketing campaign, directed to both employers and residents, to increase transit usage in Nassau County and Suffolk County.

### Units/Locations/Limits

Nassau County and Suffolk County

### Summary

The marketing plan activities include, but are not limited to; developing marketing materials, canvassing train stations and communities, developing promotional campaigns, meeting with employers to share information, and delivering presentations to groups. The objective of the marketing plan is to generate awareness of transit options and to increase transit options.

The budget for this project is \$.400 million. This request is for \$.400 million.

## Proposed Program of Projects Federal Fiscal Year 2020

|                                  |                              |
|----------------------------------|------------------------------|
| <b>Agency</b>                    | <b>ACEP ID</b>               |
| Metro-North Railroad             | M702-01-06                   |
| <b>Project Name</b>              | <b>Planning Number / PIN</b> |
| GCT Elevator Improvements        |                              |
| <b>County/Borough:</b> Manhattan | <b>Zip Code</b>              |

### Object/Purpose of Project

The purpose of this project is to rehabilitate Waldorf elevator. The freight elevator has reached the end of its useful life, its used to move equipment and materials between the various levels of the terminal and is necessary for the terminal's continuing operations.

### Units/Locations/Limits

One freight elevator - Waldorf-Astoria Hotel freight elevator in Grand Central Terminal.

### Summary

This project will rehabilitate the Waldorf-Astoria Hotel freight elevator. The work includes the following:

The Waldorf-Astoria Hotel freight elevator will be rehabilitated and upgraded to meet applicable codes and will include the replacement of the controller, drive unit, relocation of controls and call stations, addition of automatic recall, and the addition of emergency telephone and communications. The car enclosure, enclosure door, doors at each elevation and indicators are to be reconditioned.

The budget for this project is \$7.12 million. This request is for \$7.12 million.



## Proposed Program of Projects Federal Fiscal Year 2020

|   |                              |
|---|------------------------------|
| <b>Agency</b>                           | <b>ACEP ID</b>               |
| Metro-North Railroad                    | M702-01-08                   |
| <b>Project Name</b>                     | <b>Planning Number / PIN</b> |
| Mentoring -Grand Central Terminal (GCT) |                              |
| <b>County/Borough:</b> Manhattan        | <b>Zip Code</b>              |

### Object/Purpose of Project

Metro-North will make investments in Grand Central Terminal as part of the MTA's Small Business Development Program (SBDP), supporting planned work to be undertaken in the ongoing 2015-2019 Capital Program. Areas of investment may include, but are not limited to emergency exits stairs and hatches, structural painting etc.

### Units/Locations/Limits

Grand Central Terminal

### Summary

This project makes SBDP investments in support of planned ongoing Capital Program investments in Grand Central Terminal.

The budget for this project is \$6.00 million. This request is for \$6.00 million.

# Proposed Program of Projects

## Federal Fiscal Year 2020

|  |                              |
|--|------------------------------|
| <b>Agency</b>  | <b>ACEP ID</b>               |
| Metro-North Railroad                                   | M702-01-09                   |
| <b>Project Name</b>                                    | <b>Planning Number / PIN</b> |
| Park Avenue Tunnel Emergency Exits/GCT Column Painting |                              |
| <b>County/Borough:</b> Manhattan                       | <b>Zip Code</b>              |

### Object/Purpose of Project

This project provides replacement of existing emergency exit hatches and stairs along the Park Avenue Tunnel (PAT), which will preserve a safe means of egress out of the tunnel in the event of system emergency. Include in this project will be painting of columns in Grand Central Terminal. The project shall be progressed under the MTA's Small Business Development Mentoring program (SBMP).

### Units/Locations/Limits

Park Avenue Tunnel emergency exits at select locations in the tunnel in Manhattan.

### Summary

The replacement of emergency exit hatches and stairs in the Park Avenue Tunnel will consist of a condition assessment, design, prioritization of procurement of a total of 12 emergency exit hatches and stairs along with construction under three (3) separate Tier I third-party mentoring contracts. The existing hatches and stairs are painted with lead-based paint, requiring lead contaminated waste disposal. The existing deteriorated hatches and stairs will be replaced with new ones that are more robust and durable, and deteriorated structural elements will be repaired or replaced. Included is painting of various columns in Grand Central Terminal.

The budget for this project is \$1.91 million. This request is for \$1.91 million.

# Proposed Program of Projects Federal Fiscal Year 2020

|   |                              |
|---|------------------------------|
| <b>Agency</b>                               | <b>ACEP ID</b>               |
| Metro-North Railroad                        | M802-01-03                   |
| <b>Project Name</b>                         | <b>Planning Number / PIN</b> |
| GCT Building Component Repairs/Replacements |                              |
| <b>County/Borough:</b> Manhattan            | <b>Zip Code</b>              |

## Object/Purpose of Project

This project provides for Grand Central Terminal (GCT) building component repairs/replacements. Included in the project is the replacement of the T-35 (C Hall) freight elevator in GCT and the replacement of the GCT Fire & Sprinkler Standpipe System in the Trainshed. The freight elevator has reached the end of its useful life, is used to move equipment and materials between the various levels of the terminal and is necessary for the terminal's continuing operations. This multi-program project, in its final phase, will complete that rehabilitation and provide much-needed upgrades including capacity improvements to this freight elevator. The GCT Trainshed Sprinkler Standpipe System is also a continuation of a phased multi-capital program project for the replacement of the fire and sprinkler standpipe system in the Trainshed.

## Units/Locations/Limits

One freight elevator – T-35 (C-Hall) freight elevator in Grand Central Terminal. GCT fire & Sprinkler Standpipe Replacement - Replacement of the north part of upper level system, north of 47th Street and upgrade fire protection piping system at 45th, 46th and 47th Streets.

## Summary

The scope of work for the T-35 Elevator includes the following:

- ☐ Removal of the existing T-35 elevator, associated hoist way & machine room equipment, structural ramps, structural & architectural walls and selective finishes & fittings.
- ☐ The elevator will be replaced.
- ☐ The new elevator pit will be a hung pit.
- ☐ The machine room will be reconfigured/renovated for the new elevator equipment

The scope of work for the Fire and Sprinkler Standpipe System in the Trainshed includes the following:

- Upgrade north part of upper level system, north of 47th St., including replacement of piping, valves and hose connections.
- Upgrade fire protection piping system at 45th, 46th and 47th St. including replacement of piping, valves and hose connections.

The budget for this project is \$60.89 million. This request is for \$60.89 million.

# Proposed Program of Projects

## Federal Fiscal Year 2020

|                                    |                              |
|------------------------------------|------------------------------|
| <b>Agency</b>                      | <b>ACEP ID</b>               |
| Metro-North Railroad               | M702-02-04                   |
| <b>Project Name</b>                | <b>Planning Number / PIN</b> |
| Harlem Line Station Improvements   |                              |
| <b>County/Borough:</b> Westchester | <b>Zip Code</b>              |

### Object/Purpose of Project

As part of a recently completed station condition assessment, deficiencies have been identified at Scarsdale and Hartsdale on the Metro-North Harlem Line. This project will provide the following improvements:

- Hartsdale station: 2 new elevators including elevator machine rooms
- Scarsdale Station: 1 new elevator with elevator machine room on the Inbound (Track #2) side. In addition, the station overpass will be raised approximately 7" (to achieve a Plate E vertical clearance) with modifications to the existing overpass stairs and utilities accordingly.

### Units/Locations/Limits

Metro-North Harlem Line Hartsdale and Scarsdale Stations, Westchester County New York.

### Summary

This project will provide construction improvements:

- Hartsdale station: 2 new elevators with elevator machine rooms.
- Scarsdale Station: 1 new elevator with elevator machine room on the Inbound (Track #2) side and jacking the station overpass approximately 7" (to achieve a Plate E vertical clearance) modifying the existing overpass stairs and utilities accordingly.

The budget for this project is \$16.25 million. This request is for \$16.25 million.

## Proposed Program of Projects Federal Fiscal Year 2020

**Agency**

Metro-North Railroad

**ACEP ID**

M702-02-09

**Project Name**

Mentoring Program – Stations

**Planning Number / PIN****County/Borough:**

Multiple

**Zip Code****Object/Purpose of Project**

Metro-North will make investments in outlying stations as part of the MTA's Small Business Development Program (SBDP), supporting planned work to be undertaken in the ongoing 2015-2019 Capital Program. Areas of investment may include, but are not limited to, platform surfaces, platform edges, staircases, and other station area components in deteriorated condition requiring priority repairs.

**Units/Locations/Limits**

Select Metro-North Railroad locations system-wide.

**Summary**

This project makes SBDP investments in support of planned ongoing Capital Program investments in select outlying stations system-wide.

The budget for this project is \$8.96 million. This request is for \$8.96 million.

# Proposed Program of Projects

## Federal Fiscal Year 2020

**Agency**

Metro-North Railroad

**ACEP ID**

M802-02-01

**Project Name**

Upper H&H Station Priority Repairs

**Planning Number / PIN****County/Borough:**

Multiple

**Zip Code****Object/Purpose of Project**

This project includes construction of priority repairs at select stations between Cortlandt and Poughkeepsie on the Hudson Line and between North White Plains and Brewster on the Harlem Line. This project will address priority repairs identified in the 2015-2019 consultant stations assessment, which included construction packaging that grouped stations together for optimal construction of component repairs to help minimize disruption. The focus is on completing safety critical priority repairs with the goal of extending the useful life of station elements

**Units/Locations/Limits**

Hudson Line stations between Cortlandt and Poughkeepsie, and Harlem Line stations between North White Plains and Brewster.

**Summary**

The project includes multiple construction packages (determined through the design process) for priority repairs at Hudson Line stations between Cortlandt and Poughkeepsie, and Harlem Line stations between North White Plains and Brewster.

The repairs will address the following significant issues at these stations:

- Major cracks and spalling in platform surfaces, supports and piers
- Repair platform expansion joints and seal them from future deterioration
- Repairs to platform edges
- Repairs to stairs and ramps
- Repairs to overpasses and underpasses

The budget for this project is \$21.05 million. This request is for \$21.05 million.

# Proposed Program of Projects Federal Fiscal Year 2020

|                                    |                              |
|------------------------------------|------------------------------|
| <b>Agency</b>                      | <b>ACEP ID</b>               |
| Metro-North Railroad               | M802-02-02                   |
| <b>Project Name</b>                | <b>Planning Number / PIN</b> |
| Harlem Line Station Renewals       |                              |
| <b>County/Borough:</b> Westchester | <b>Zip Code</b>              |

## Object/Purpose of Project

This project includes the design and construction for a phased renewal of station components at stations between Botanical Gardens and North White Plains on the Harlem Line. Upgrades at these stations may include new platforms, new lighting, improved customer information systems, new platform canopies, and modernized passenger waiting areas.

## Units/Locations/Limits

Select Stations between Botanical Gardens and North White Plains on the Harlem Line.

## Summary

Project scope for each station may include the following:

- Replace or rehabilitate existing concrete platform and canopy structure
- Expand canopy coverage compared to existing platforms
- Repair or replace existing stairs and ramps
- Upgrade electrical systems
- Install new lighting, new customer service information systems, and new shelters
- Make repairs to other station areas (entrance plazas, underpasses, etc)

At certain stations, accessibility improvements are under consideration, budgeted in a separate project for Harlem Line ADA Improvements. The project implementation strategy will consider the benefits of packaging work scope into a single larger contract.

The budget for this project is \$193.55 million. This request is for \$21.59 million.

## Proposed Program of Projects Federal Fiscal Year 2020

|                                 |                              |
|---------------------------------|------------------------------|
| <b>Agency</b>                   | <b>ACEP ID</b>               |
| Metro-North Railroad            | M802-02-07                   |
| <b>Project Name</b>             | <b>Planning Number / PIN</b> |
| Station Mentoring Program       |                              |
| <b>County/Borough:</b> Multiple | <b>Zip Code</b>              |

### Object/Purpose of Project

Metro-North will make investments in outlying stations as part of the MTA's Small Business Development Program (SBDP), supporting planned work to be undertaken in the 2020-2024 Capital Program. Areas of investment may include, but are not limited to, platform surfaces, platform edges, staircases, and other station components exhibiting some deterioration needing priority repair.

### Units/Locations/Limits

Select Metro-North Railroad system-wide.

### Summary

This project makes SBDP investments in support of planned 2020-2024 Capital Program investments in select outlying stations system-wide.

The budget for this project is \$25.0 million. This request is for \$3.0 million



# Proposed Program of Projects

## Federal Fiscal Year 2020

**Agency**

Metro-North Railroad

**ACEP ID**

M702-03-01

**Project Name**

Strategic Facilities -Upper Harlem Parking Improvements at Croton F

**Planning Number / PIN****County/Borough:**

Westchester

**Zip Code****Object/Purpose of Project**

The purpose of this project is to improve station access in the Croton Falls/Purdy's areas on the Upper Harlem Line. This project will design and construct up to a 450 space surface lot with connecting sidewalk to the existing sidewalk on the station side of the Croton Falls Road/RT 202 intersection.

**Units/Locations/Limits**

Up to 450 additional parking spaces Croton Falls New York, Westchester County

**Summary**

This project will provide improved station access and expand existing railroad parking facilities at select stations on the Upper Harlem Line in Westchester County. This project will construct up to 450 additional parking spaces for Metro-North customers that use the parking facilities at Croton Falls, Purdy's and Goldens Bridge. The project will improve safety by eliminating unsafe roadside parking for customers at these locations.

The budget for this project \$16.50 million. The request is \$6.60 million.

## Proposed Program of Projects Federal Fiscal Year 2020

|  |                              |
|--|------------------------------|
| <b>Agency</b>                            | <b>ACEP ID</b>               |
| Metro-North Railroad                     | M702-03-02                   |
| <b>Project Name</b>                      | <b>Planning Number / PIN</b> |
| Mentoring Program – Strategic Facilities |                              |
| <b>County/Borough:</b> Multiple          | <b>Zip Code</b>              |

**Object/Purpose of Project**

Metro-North will make investments in strategic facilities and parking as part of the MTA's Small Business Development Program (SBDP), supporting planned work to be undertaken in the ongoing 2015- 2019 Capital Program. Areas of investment may include, but are not limited to, station area opportunities to improve parking facilities and rail access.

**Units/Locations/Limits**

Select Metro-North Railroad system-wide

**Summary**

This project supports planned ongoing Capital Program strategic facilities investments.

The budget for this project is \$2.05 million. This request is for \$2.05 million.

## Proposed Program of Projects Federal Fiscal Year 2020

**Agency**

Metro-North Railroad

**ACEP ID**

M802-03-02

**Project Name**

Parking Mentoring Program

**Planning Number / PIN**

**County/Borough:** Multiple

**Zip Code**

**Object/Purpose of Project**

Metro-North will make investments in strategic facilities and parking as part of the MTA's Small Business Development Program (SBDP), supporting planned work to be undertaken in the 2020-2024 Capital Program. Areas of investment may include, but are not limited to, station area opportunities to improve parking facilities and rail access.

**Units/Locations/Limits**

Select Metro-North Railroad system-wide

**Summary**

This project supports planned 2020-2024 Capital Program strategic facilities and parking investments.

The budget for this project is \$9.0 million. This request is for \$3.0 million

## Proposed Program of Projects Federal Fiscal Year 2020

**Agency**

Metro-North Railroad

**ACEP ID**

M803-01-01

**Project Name**

2020 Cyclical Track Program

**Planning Number / PIN****County/Borough:**

Multiple

**Zip Code****Object/Purpose of Project**

This program maintains Metro-North's track in a state of good repair ensuring that the physical plant does not deteriorate requiring unprogrammed replacement. This program continues the replacement program undertaken in previous Capital Programs, providing for the replacement of the ties and rail along with cyclical surfacing required throughout the entire Metro- North territory East of the Hudson River in New York State.

**Units/Locations/Limits**

Metro-North Railroad System -wide.

**Summary**

This project provides for the replacement of the ties and rail along with cyclical surfacing required throughout the entire Metro-North territory East of Hudson River in New York State.

The budget for this project is \$18.00 million. This request is for \$18.00 million.

# Proposed Program of Projects

## Federal Fiscal Year 2020

|                                 |                              |
|---------------------------------|------------------------------|
| <b>Agency</b>                   | <b>ACEP ID</b>               |
| Metro-North Railroad            | M803-01-03                   |
| <b>Project Name</b>             | <b>Planning Number / PIN</b> |
| Turnouts- Mainline, GCT & Yards |                              |
| <b>County/Borough:</b> Multiple | <b>Zip Code</b>              |

### Object/Purpose of Project

This project provides for the replacement of interlocking switches and turnouts at locations throughout the Metro-North territory in New York State as switches and turnouts reach the end of their useful life. In select locations, turnouts are replaced with high-speed turnouts to help reduce travel time for Metro-North customers and provide greater flexibility for the railroad. In GCT, the cyclical replacement of switches and stick/jointed rail in the platform areas continues in this project as well to keep pace with the high volume of traffic and tight configuration within the terminal, accelerating the wear of the switches. These investments help maintain a state of good repair for Metro-North track assets, so that service may operate reliably.

### Units/Locations/Limits

Metro-North Railroad Grand Central Terminal and System-wide

### Summary

This project will provide for replacement of interlocking switches and turnouts at various locations throughout the Metro-North territory in New York State. The high level of traffic on Metro North results in heavy usage of track switches causing a need for cyclical replacement and renewal. Interlockings are vital in providing the ability to move around track work, a disabled train or other operational impact. In GCT, the cyclical replacement of switches and stick/jointed rail in the platform areas continues in this project as well to keep pace with the high volume of traffic and tight configuration within the terminal, accelerating the wear of the switches.

The budget for this project is \$86.70 million. This request is for \$15.85 million.

# Proposed Program of Projects

## Federal Fiscal Year 2020

|                              |                              |
|------------------------------|------------------------------|
| <b>Agency</b>                | <b>ACEP ID</b>               |
| Metro-North Railroad         | M803-01-06                   |
| <b>Project Name</b>          | <b>Planning Number / PIN</b> |
| ROW Drainage Improvements    |                              |
| <b>County/Borough:</b> Bronx | <b>Zip Code</b>              |

### Object/Purpose of Project

The project objective is to upgrade existing drainage systems and provide new drainage systems to address problems of trackbed drainage and flooding, which has resulted in constant maintenance problems and loss of service during a major storm event. This project shall achieve these objectives with creative, cost-conscious solutions that satisfy permitting and regulatory requirements, and that can be constructed with minimal disruptions to service. Location of planned drainage improvements may include but not limited to the Melrose Tunnel located in the Bronx on the Harlem Line.

### Units/Locations/Limits

Various locations, potentially including Melrose Tunnel located in the Bronx on the Harlem Line.

### Summary

The scope of work generally includes installation of underdrains, installation of catch basins to collect the storm water from a larger area and allow a regulated discharge to the NYC sewers or the town sewers. The drainage pattern at each location is unique to its topography, configuration of existing sewerage connections and has a unique drainage permit from the Department of Environmental Protection (DEP). The work at Melrose tunnel would address the drainage and flooding caused by broken water pipes from adjacent NYCHA buildings above the tracks, poor drainage at track areas, and potential water emanating from a NYC water main.

The budget for this project is \$8.57 million. This request is for \$8.57 million.

# Proposed Program of Projects

## Federal Fiscal Year 2020

|  |                              |
|--|------------------------------|
| <b>Agency</b>                            | <b>ACEP ID</b>               |
| Metro-North Railroad                     | M803-01-07                   |
| <b>Project Name</b>                      | <b>Planning Number / PIN</b> |
| Purchase of Maintenance of Way Equipment |                              |
| <b>County/Borough:</b> Multiple          | <b>Zip Code</b>              |

**Object/Purpose of Project**

This project provides for the annual replacement of Maintenance of Way (M of W) Equipment that has reached the end of their useful life.

**Units/Locations/Limits**

Various types of heavy maintenance equipment that has reached its end of useful life. This may include items such as milling machine, stabilizer, junior tamper, tie crane, backhoe with trailer, asphalt paver with trailer, industrial fork truck, hi-rail track excavator with trailer, asphalt roller with trailer, utility/work implement vehicle, shop floor cleaning machine, hammer spiker, mini loader backhoe with snow blower, and rough terrain scissor lift.

**Summary**

Metro North operates a fleet of M of W Equipment that is utilized to maintain its track in a state of good repair, ensuring that the physical plant does not deteriorate.

The budget for this project is \$16.64 million. This request is for \$8.03 million.

## Proposed Program of Projects Federal Fiscal Year 2020

|   |                              |
|---|------------------------------|
| <b>Agency</b>                             | <b>ACEP ID</b>               |
| Metro-North Railroad                      | M703-02-03                   |
| <b>Project Name</b>                       | <b>Planning Number / PIN</b> |
| Undergrade Bridge Rehab. - East of Hudson |                              |
| <b>County/Borough:</b> Multiple           | <b>Zip Code</b>              |

### Object/Purpose of Project

This project will perform replacement/repair work on various bridges located on the Harlem, Hudson and New Haven Lines.

### Units/Locations/Limits

Various bridges located on the Harlem, Hudson and New Haven lines including superstructure repair of the bridge and fender (pier protection at waterline) repair at the Harlem River Lift Bridge HU4.69, and repair of the HU 4.82 pier (north approach to lift bridge) in New York.

### Summary

This project will repair and replace bridges over or supporting the railroads right-of-way approaching the end of their useful lives. The project is a continuation of undergrade bridge work performed in previous Capital Programs.

The budget for this project is \$16.60 million. This request is for \$16.60 million.



## Proposed Program of Projects Federal Fiscal Year 2020

|                              |                              |
|------------------------------|------------------------------|
| <b>Agency</b>                | <b>ACEP ID</b>               |
| Metro-North Railroad         | M703-02-09                   |
| <b>Project Name</b>          | <b>Planning Number / PIN</b> |
| Harlem River Lift Bridge     |                              |
| <b>County/Borough:</b> Bronx | <b>Zip Code</b>              |

### Object/Purpose of Project

The purpose of this project is to continue the state of good repair/needs replacement investments on the Harlem River Lift Bridge.

### Units/Locations/Limits

Four piers (Piers B, C, D and E) on the Harlem River Lift Bridge and at approach spans to the Bronx and Manhattan side towers

### Summary

This project will repair four piers on the Harlem River Lift Bridge and at one location on the approach spans to the Bronx Side. The cracks on the bridge piers (Piers B, C, D and E) are located in the Harlem River. This project includes inspection of all underwater substructure units and Manhattan fender, inspection and design of the safety flag condition at the Manhattan Tower and Bronx Tower. The project further provides aerial beacon to comply with FAA rules, railing and fall protection, lightning protection of the towers, and inspection and design to remove the red structural flags at pier 3 and pier 7 of Bridge HU 4.82 on the north approach to the HRLB.

The budget for this project is \$8.22 million. The request is for \$8.22 million.

## Proposed Program of Projects Federal Fiscal Year 2020

|                                 |                              |
|---------------------------------|------------------------------|
| <b>Agency</b>                   | <b>ACEP ID</b>               |
| Metro-North Railroad            | M703-02-15                   |
| <b>Project Name</b>             | <b>Planning Number / PIN</b> |
| Mentoring Program - Structures  |                              |
| <b>County/Borough:</b> Multiple | <b>Zip Code</b>              |

### Object/Purpose of Project

Metro-North will make line structure component investments as part of the MTA's Small Business Development Program (SBDP), supporting planned work to be undertaken in the ongoing 2015-2019 Capital Program. Areas of investment will focus on structural components which are at or beyond their useful lives, or which do not meet current condition criteria.

### Units/Locations/Limits

Select Metro-North Railroad locations system-wide

### Summary

This project makes SBDP investments in support of planned ongoing Capital Program investments in select line structures components system-wide.

The budget for this project is \$6.00 million. This request is for \$6.00 million.

## Proposed Program of Projects Federal Fiscal Year 2020

|   |                              |
|---|------------------------------|
| <b>Agency</b>                             | <b>ACEP ID</b>               |
| Metro-North Railroad                      | M803-02-02                   |
| <b>Project Name</b>                       | <b>Planning Number / PIN</b> |
| Undergrade Bridge Rehab. - East of Hudson |                              |
| <b>County/Borough:</b> Multiple           | <b>Zip Code</b>              |

**Object/Purpose of Project**

This project is a continuation of the work under previous Capital Programs to perform replacement/repair work on various undergrade bridges located at priority locations on the Harlem, Hudson and New Haven Lines.

**Units/Locations/Limits**

Various bridges located on the Harlem, Hudson and New Haven lines.

**Summary**

This project will repair and replace bridges over or supporting the railroads right-of-way approaching the end of their useful lives. The project is a continuation of undergrade bridge work performed in previous Capital Programs.

The budget for this project is \$77.61 million. This request is for \$4.66 million.

# Proposed Program of Projects Federal Fiscal Year 2020

|  |                              |
|--|------------------------------|
| <b>Agency</b>                          | <b>ACEP ID</b>               |
| Metro-North Railroad                   | M803-02-03                   |
| <b>Project Name</b>                    | <b>Planning Number / PIN</b> |
| Overhead Bridge Program East of Hudson |                              |
| <b>County/Borough:</b> Westchester     | <b>Zip Code</b>              |

## Object/Purpose of Project

This project is a continuation of the work under previous Capital Programs to continue to repair or replace bridges over the New Haven Line and other bridges listed in serious to critical states of repair and over 100 years old.

The 2020-2024 Capital Program will support the construction of bridges at Fulton Avenue (NH 14.07), Centre Avenue New Rochelle (NH 16.37) and South Street (NH 12.85). The design of the next set of bridges in need of replacement is also included and may include the following: Broadway Bridge, William Street, West Street and Central Avenue.

## Units/Locations/Limits

Fulton Avenue and South Street on the New Haven Line in Mt Vernon

## Summary

This project will support the planned replacement of the Fulton Avenue and South Street bridges on the New Haven Line in Mt Vernon via third party contractors.

The budget for this project is \$75.98 million. This request is for \$38.80 million.

# Proposed Program of Projects Federal Fiscal Year 2020

|                                 |                              |
|---------------------------------|------------------------------|
| <b>Agency</b>                   | <b>ACEP ID</b>               |
| Metro-North Railroad            | M803-02-04                   |
| <b>Project Name</b>             | <b>Planning Number / PIN</b> |
| Railtop Culverts                |                              |
| <b>County/Borough:</b> Multiple | <b>Zip Code</b>              |

## Object/Purpose of Project

The focus of this project is to replace railtop to roadways, railtop culverts, as well as culverts and drainage systems that have exceeded their useful life. There are 39 locations with railtop culverts on the Hudson Line and 23 locations with railtop culverts on the Harlem Line, for a total of 62 locations, most of which are over 100 years old. Railtop structures are on the average 5' to 15' long and support the tracks over streams, roadways, sewers or other pipe ways. Railtops are all constructed of closely spaced running rails. Since these decks were rarely waterproofed and because the rails could not be painted due to the tight spacing, many of these structures exhibit heavy corrosion with some steel de-lamination. When a culvert does not function properly the waterway will run around the structure and will saturate the track bed and it can be washed out.

## Units/Locations/Limits

Harlem and Hudson Line Systemwide

## Summary

Railtop culverts have been prioritized for replacement based on condition. Metro-North forces construct the new structure made of wide flange steel beams embedded in a concrete slab.

The budget for this project is \$4.55 million. This request is for \$0.55 million.

# Proposed Program of Projects Federal Fiscal Year 2020

|                                 |                              |
|---------------------------------|------------------------------|
| <b>Agency</b>                   | <b>ACEP ID</b>               |
| Metro-North Railroad            | M803-02-05                   |
| <b>Project Name</b>             | <b>Planning Number / PIN</b> |
| Bridge Walkways                 |                              |
| <b>County/Borough:</b> Multiple | <b>Zip Code</b>              |

## Object/Purpose of Project

The purpose of this project is to construct employee walkways attached to various undergrade bridges on the Harlem, Hudson and Port Jervis lines in NYS. All design and construction to be performed by in house forces. At some bridge locations there are no means to cross the bridge span without walking on the track. This causes an unsafe condition for employees because some bridges are open deck types with spaces between the timbers to trip on or slip through. Some bridges are long and on curves with limited sight distance and without areas to stand clear of passing trains. Existing conditions make walking on the track a dangerous and life-threatening situation.

## Units/Locations/Limits

Various locations on the Harlem, Hudson and Port Jervis lines in NYS.

## Summary

Metro-North's approach is to systematically install the bridge walkways in order to comply with the Bridge Worker Safety Standards and to protect the safety of the employees. Locations are prioritized for investment based on a variety of safety issues, e.g., the embankment leading up to and at the structure is steep and a worker tends to slide and be positioned at the height of a train wheel making, a less visible location and more susceptible to injury by any item being dragged by a train, the approach on each end of the structure is curved so the train noise is not readily heard and the train crew is less likely to see if a worker is fouling the tracks, or the height of the structure is over the 12 feet prescribed by the regulations.

The budget for this project is \$2.27 million. This request is for \$0.91 million.

## Proposed Program of Projects Federal Fiscal Year 2020

**Agency**

Metro-North Railroad

**ACEP ID**

M803-02-09

**Project Name**

Mentoring Program - Structures

**Planning Number / PIN**

**County/Borough:** Multiple

**Zip Code**

**Object/Purpose of Project**

Metro-North will make line structure component investments as part of the MTA's Small Business Development Program (SBDP), supporting planned work to be undertaken in the 2020-2024 Capital Program. Areas of investment will focus on structural components which are at or beyond their useful lives, or which do not meet current condition criteria.

**Units/Locations/Limits**

Select Metro-North Railroad locations system-wide

**Summary**

This project makes SBDP investments in support of planned Capital Program investments in select line structures components system-wide.

The budget for this project is \$14.10 million. This request is for \$0.60 million.

## Proposed Program of Projects Federal Fiscal Year 2020

|  |                              |
|--|------------------------------|
| <b>Agency</b>                            | <b>ACEP ID</b>               |
| Metro-North Railroad                     | M803-03-03                   |
| <b>Project Name</b>                      | <b>Planning Number / PIN</b> |
| West of Hudson Undergrade Bridge Program |                              |
| <b>County/Borough:</b> Orange            | <b>Zip Code</b>              |

### Object/Purpose of Project

This project will repair, rehabilitate or replace existing undergrade bridges that are not in a State of Good Repair located on Metro-North's Port Jervis Line (PJL), West of the Hudson River.

### Units/Locations/Limits

Various locations on the Port Jervis Line in NYS.

### Summary

This project continues the on-going West of Hudson Undergrade bridge program included in each capital program since Metro-North assumed maintenance responsibility for the Port Jervis Line. Scope will include the repair, rehabilitation or replacement of undergrade bridges at select locations on the Port Jervis Line on a prioritized basis.

The budget for this project is \$10.53 million. This request is for \$1.97 million.



## Proposed Program of Projects Federal Fiscal Year 2020

|                               |                              |
|-------------------------------|------------------------------|
| <b>Agency</b>                 | <b>ACEP ID</b>               |
| Metro-North Railroad          | M803-03-04                   |
| <b>Project Name</b>           | <b>Planning Number / PIN</b> |
| Moodna/Woodbury Viaducts      |                              |
| <b>County/Borough:</b> Orange | <b>Zip Code</b>              |

### Object/Purpose of Project

The purpose of this project is to make priority repairs on two major structures – Woodbury and Moodna Viaducts – located on the Port Jervis Line.

### Units/Locations/Limits

Moodna Viaduct and Woodbury Viaduct Port Jervis NY.

### Summary

This project will make investments to address deteriorated conditions of the 100-year-old Moodna and Woodbury viaducts with inspection, design and construction of continued priority repairs to enable these major structures to remain in service. These priority repairs must be made to ensure the viability of these critical infrastructure links for West of Hudson service, until they can be replaced in a future Capital Program.

The budget for this project is \$40.00 million. This request is for \$30.00 million.

## Proposed Program of Projects Federal Fiscal Year 2020

|                                 |                              |
|---------------------------------|------------------------------|
| <b>Agency</b>                   | <b>ACEP ID</b>               |
| Metro-North Railroad            | M805-01-02                   |
| <b>Project Name</b>             | <b>Planning Number / PIN</b> |
| Substation Rehabilitation       |                              |
| <b>County/Borough:</b> Multiple | <b>Zip Code</b>              |

### Object/Purpose of Project

This project provides for the installation of enhanced, discriminating, high speed D.C. Circuit breakers that feed the 3rd Rail at nine substations on Metro-North's Hudson and New Haven lines. This includes the manufacture and replacement of the switchgear cubicles and circuit breakers at various substations locations along the right of way.

### Units/Locations/Limits

Various locations on Hudson and New Haven Lines in the NYS.

### Summary

This project consists of the upgrade and replacements of the DC Switchgear components at various substations locations along the right of way.

The budget for this project is \$14.80 million. This request is for \$10.70 million.

## Proposed Program of Projects Federal Fiscal Year 2020

|  |                              |
|--|------------------------------|
| <b>Agency</b>                                | <b>ACEP ID</b>               |
| MTA Bus                                      | U7030210                     |
| <b>Project Name</b>                          | <b>Planning Number / PIN</b> |
| Paint Booths - Eastchester and College Point | SF16-2587                    |
| <b>County/Borough:</b> Multiple              | <b>Zip Code</b>              |

**Object/Purpose of Project**  
The purpose of this project is to replace the paint booths at the Eastchester and College Point Depots during the MTA 2015-2019 Capital Program

**Units/Locations/Limits**  
Eastchester and College Point Depots

**Summary**  
This project will replace the paint booths at the Eastchester and College Point Depots that have exceeded their useful life and are dilapidated. Replacement will include demolition, purchase and installation of the paint booths and associated equipment.

The estimated cost of this project is \$4.9M of which the federal amount will be \$4.89M.

## Proposed Program of Projects Federal Fiscal Year 2020

|                               |                              |
|-------------------------------|------------------------------|
| <b>Agency</b>                 | <b>ACEP ID</b>               |
| MTA Bus                       | U7030219                     |
| <b>Project Name</b>           | <b>Planning Number / PIN</b> |
| Purchase 25 Standard Buses    | SF02-7927                    |
| <b>County/Borough:</b> Queens | <b>Zip Code</b>              |

### Object/Purpose of Project

The purpose of this project is to purchase 25 standard buses to be operated within the borough of Queens during the MTA 2015-2019 Capital Program.

### Units/Locations/Limits

Queens

### Summary

This project will purchase 25 standard buses to be operated within the borough of Queens. These buses will be designated to operate in revenue service for a minimum of 12 years of 500,000 miles. These buses will meet Environmental Protection Agency (EPA) emission standards, as well as American's With Disabilities (ADA) standards.

The estimated cost of this project is \$16.8M, of which the federal amount will be \$16.8M.

## Proposed Program of Projects Federal Fiscal Year 2020

|   |                              |
|---|------------------------------|
| <b>Agency</b>                           | <b>ACEP ID</b>               |
| MTA Bus                                 | U8030201                     |
| <b>Project Name</b>                     | <b>Planning Number / PIN</b> |
| Purchase 25 Standard All-Electric Buses | SF02-8751                    |
| <b>County/Borough:</b> Multiple         | <b>Zip Code</b>              |

### Object/Purpose of Project

The purpose of this project is to purchase 25 standard all-electric buses to be operated throughout New York City during the MTA 2020-2024 Capital Program.

### Units/Locations/Limits

Multiple

### Summary

This project will purchase 25 standard all-electric buses to be operated throughout New York City. These buses will be designated to operate in revenue service for a minimum of 12 years or 500,000 miles. These buses will meet Environmental Protection Agency (EPA) emission standards, as well as American With Disabilities (ADA) standards.

The estimated cost of this project is \$42.4 million, of which the federal amount will be \$42.38 million.

# Proposed Program of Projects

## Federal Fiscal Year 2020

|                                 |                              |
|---------------------------------|------------------------------|
| <b>Agency</b>                   | <b>ACEP ID</b>               |
| Capital Construction            | G81101XX                     |
| <b>Project Name</b>             | <b>Planning Number / PIN</b> |
| Penn Station Access             |                              |
| <b>County/Borough:</b> Multiple | <b>Zip Code</b>              |

### Object/Purpose of Project

This project will provide continuation of Penn Station Access.

### Units/Locations/Limits

Amtrak's Hell Gate Line, from New Rochelle, through the East Bronx, via Randalls Island, to Sunnyside, Queens, through the East River Tunnels to Penn Station in Manhattan

### Summary

Penn Station Access will connect Metro-North Railroad to Penn Station in Manhattan via Amtrak's existing Hell Gate Line (HGL). Improvements will be made along approximately 15 miles of the existing HGL Right-of-Way (ROW), including upgrade to power and signal systems, installation of new track and realignment of existing track, and reconstruction of railroad bridges to accommodate more trains. As part of the effort, four (4) new stations will be constructed in the East Bronx. This project will provide continuation of Penn Station Access.

The federal request for this project is \$904.757 million.