# **MONTAGUE SELECTBOARD MEETING**

# 1 Avenue A, Turners Falls and VIA ZOOM Monday, November 4, 2024 AGENDA

Join Zoom Meeting: https://us02web.zoom.us/j/89068108779

Meeting ID: 890 6810 8779 Password: 468354

Dial into meeting: +1 646 558 8656

This meeting/hearing of the Selectboard will be held in person at the location provided on this notice. Members of the public are welcome to attend this meeting. Please note that while an option for remote attendance and/or participation is being provided as a courtesy to the public, the meeting/hearing will not be suspended or terminated if technological problems interrupt the virtual broadcast, unless otherwise required by law. Members of the public with particular interest in any specific item on this agenda should make plans for in-person vs. virtual attendance accordingly.

Topics may start earlier than specified, unless there is a hearing scheduled

# Meeting Being Taped

# **Votes May Be Taken**

- Selectboard Chair opens the meeting, including announcing that the meeting is being recorded and roll call taken
   6:30 Approve Minutes: Selectboard Meeting, October 28, 2024
   6:32 Public Comment Period: Individuals will be limited to two (2) minutes each and the Selectboard will strictly adhere to time allotted for public comment
   6:35 Michael Perrault, Deputy Administrator Franklin Regional Transit Authority

   Proposed bus stop and safety improvements at the intersection of Millers Falls Road and Industrial Boulevard.
   Other relevant FRTA updates
- 5. 6:45 Walter Ramsey, Town Administrator and Angelica Desroches, Town Accountant
  - FY26 Budget Development: Review preliminary revenue projections and consider excess levy capacity options
- 6. 7:05 Assistant Town Administrators Business
  - Review of ARPA expenditures, remaining balances
  - FY26 Capital Planning overview
  - 11<sup>th</sup> Street Bridge: discussion on preferred funding source for upcoming Spring construction
  - Other project updates

### 7. 7:20 Town Administrators Business

- Discuss options to fill Tree Warden vacancy
- Execute FY25 Landfill Monitoring Agreement with Tighe and Bond in the amount of \$27,250. To be funded out of the Solid Waste operating budget.
- Topics not anticipated within 48 hours of posting deadline

# **Next Meeting:**

Selectboard, Monday, November 18, 2024 at 6:00 PM, via ZOOM

# FUSS & O'NEILL

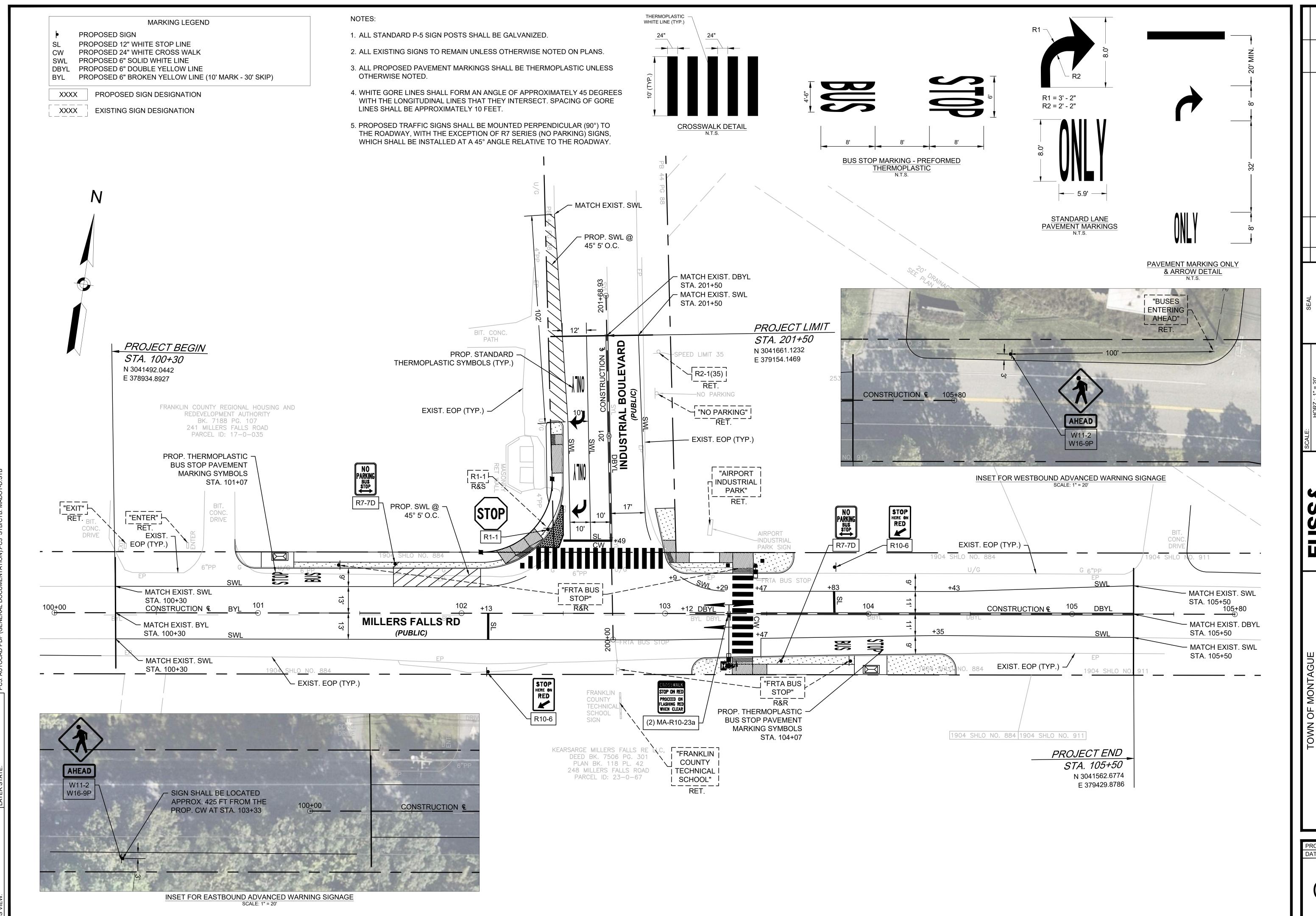
# FRTA – Industrial Blvd/Millers Falls Rd Bus Stop Improvements Montague, MA Preliminary Design Estimate 9/11/2024 PRELIMINARY DESIGN COST ESTIMATE SUMMARY

| CONCEPT STAGE                                | DATE       | TOTA | <b>AL</b> |
|--|------------|------|-----------|
| KITTLESON CONCEPT OPINION OF COST            | March 2022 | \$   | 178,376   |
| KITTLESON CONCEPT OPINION INFLATION ADJUSTED | Sept 2024  | \$   | 223,375   |

# **PRELIMINARY DESIGN ALTERNATIVE**

| ALTERNATIVE #1 OVERHEAD RRFB W/ SIMME SEATS                   |           | \$<br>235,663 |
|---|-----------|---------------|
| ALTERNATIVE #2 OVERHEAD RRFB W/ BUS SHELTERS                  | Sept 2024 | \$<br>343,453 |
| ALTERNATIVE #3 PEDESTRIAN HYBRID BEACON (HAWK) W/SIMME SEATS  |           | \$<br>436,831 |
| ALTERNATIVE #4 PEDESTRIAN HYBRID BEACON (HAWK) W/BUS SHELTERS |           | \$<br>544,818 |

Alt 1 cost estimate: \$235,663 Grant amount: \$178,376 Funding gap: \$57,287

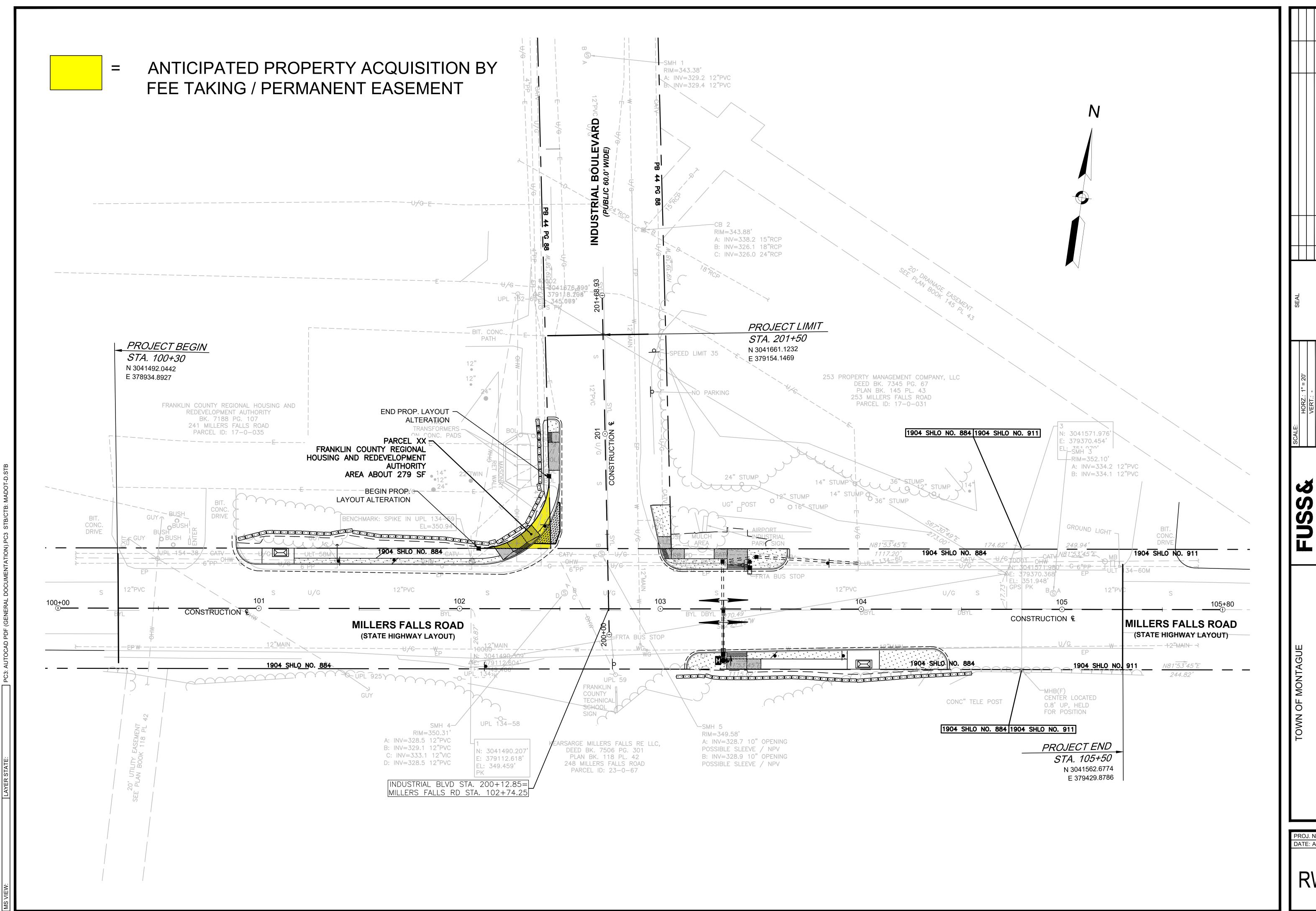


USS& O'NEIL

INDUSTRIAL BLVD/MILLERS FALLS RD BUS STOP IMPROVEMENTS SIGNING

PROJ. No.: 20240059.A10 DATE: AUGUST 2024

CT-101



 SEAL
 Control of the property of the pr

VERT.: 
DATUM:

HORZ.: 
VERT.: 
VERT.: 
VERT.: 
VERT.: 
VERT.: 
VERT.: -

JOURNAL SUITE 400 SPRINGFIELD, MA 01103

ICIPATED ROW OF IMPACT

DUSTRIAL BLVD/MILLERS FALLS RD

PROJ. No.: 20240059.A10

DATE: AUGUST 2024

RW-101

# FY26 Preliminary Revenue Estimates

31-Oct-24

|   | 31-Oct-24           |                     |                     |
|---|---------------------|---------------------|---------------------|
|   | FY2024              | FY2025              | FY2026<br>Proposed  |
|   | Actual              | Budget<br>Estimates | Budget<br>Estimates |
| Tax Levy  |                     |                     |                     |
| Prior Year Limit  | 21,041,319          | 21,944,209          | 22,567,814          |
| 2.50%   | 526,033             | 548,605             | 564,195             |
| New Growth  | 376,857             | 75,000              | 75,000              |
| Debt Exclusion  | 1,205,068           | 1,204,232           | 1,204,633           |
| Excess Capacity   | -1,241,751          | -1,149,544          | -1,149,544          |
| Subtotal Tax Levy   | 21,907,526          | 22,622,502          | 23,262,098          |
| Less Allowance for A&E                                    | -400,781            | -400,000            | -400,000            |
| Net Levy  | 21,506,745          | 22,222,502          | 22,862,098          |
| State Aid   | Cherry Sheet        |                     | Est                 |
| Unrestricted Aid  | 1,713,276           | 1,764,674           | 1,817,614           |
| Veterans' Benefits  | 40,519              | 25,468              | 25,468              |
|   | •                   |                     |                     |
| Exemptions V/B/SS/Eld                                     | 36,872              | 36,701              | 33,177              |
| State Owned Land  | 366,300             | 368,422             | 384,871             |
| Chapter 70 (Smith Vo-Tech)                                | 9,046               |                     | -                   |
| Public Libraries  | 25,647              | 25,647              | 29,252              |
| less offset   | -25,647             | -25,647             | -29,252             |
| Subtotal Cherry Sheet                                     | 2,166,013           | 2,195,265           | 2,261,130           |
| Less State Charges  | -104,836            | -110,000            | -109,585            |
| Net State Revenue   | 2,061,177           | 2,085,265           | 2,151,545           |
| Local Receipts  | Recap Budget        |                     |                     |
| Motor Vehicle Excise                                      | 859,408             | 775,000             | 798,250             |
|   | 039,400             | 113,000             | 190,230             |
| Other Excise  | 70.740              | 74.000              | 70 775              |
| Meals Tax   | 76,718              | 71,000              | 72,775              |
| Penalties & Interest                                      | 149,190             | 137,000             | 140,425             |
| PILOT   | 16,396              | 14,000              | 14,350              |
| Charges for Trash Disposal                                | 295,082             | 275,000             | 280,500             |
| Rental - 50% of Kearsarge +                               | 86,235              | 70,769              | 79,831              |
| Other Charges for Service                                 | 85,695              | 59,000              | 60,180              |
| Building Permits  | 120,292             | 109,000             | 112,270             |
| Licenses & Permits  | 59,391              | 46,000              | 47,380              |
| Fines & Forfeits  | 12,249              | 8,000               | 8,080               |
| Investment Income   | 59,926              | 2,000               | 10,000              |
| FCTS reimb for SRO-shown b                                | ·                   | _,000               | .0,000              |
| Miscellaneous Recurring                                   | 101,047             | 79,058              | 84,597              |
| Misc. Non-Recurring                                       | 281,898             | 70,000              | 04,007              |
|   | ·                   | 1 645 997           | 1 700 620           |
| Total Local Receipts For AA                               | 2,203,526           | 1,645,827           | 1,708,638           |
| Other Local Receipts                                      |                     |                     |                     |
| FCTS SRO Reimb  | 78,540              | 77,500              | 77,500              |
| GMRSD SRO Reimb   | 66,300              | 65,000              | 65,000              |
| 50% Kearsarge Lease                                       | 85,235              | 70,769              | 79,831              |
| Grand Total Local Receipts                                | 2,433,601           | 1,859,096           | 1,930,969           |
| <u>Available Funds</u>                                    |                     |                     |                     |
| Existing Sp Art Balances                                  | 12,099              |                     |                     |
| Capital Stabilization                                     | 100,000             | 228,500             |                     |
| CWF Capital Stabilization                                 | 100,000             | 220,000             |                     |
| Cannabis Impact Stabilization                             | •                   |                     |                     |
| <u>-</u>  |                     |                     |                     |
| Transportation Infrastructure                             | 7 -                 | 407                 |                     |
| Res for Excluded Debt                                     |                     | 487                 |                     |
| Town Stabilization for Sp Artic Town Stabilization For GM | cles                |                     |                     |
| Town Gen Stab to make up for                              | or lost Rev         |                     |                     |
| Sale of RE & Chapter 90                                   |                     | 26,041              |                     |
| Overlay Surplus   | 250,000             | ,                   |                     |
| Receipts Res for Approp                                   | 53,250              | 52,250              | 52,250              |
| Total Available Funds                                     | 415,356             | 307,278             |                     |
| Free Cash   |                     |                     |                     |
|   | 2 400 704           | 244.000             |                     |
| Individual Articles                                       | 2,180,701           | 314,000             |                     |
| Reduce Levy<br>Total Free Cash                            | 2,180,701           | 314,000             |                     |
| 10tai i 166 0a311   | ۷, ۱۵۵, <i>۱</i> ۵۱ | 314,000             |                     |
| Grand Total General Revenue                               | 28,597,580          | 26,788,141          | 26,944,612          |
| less available funds                                      | 26,001,523          | 26,166,863          | 26,944,612          |
|   |                     |                     |                     |

# Impact of Budgeted Excess Capacity Amount on Town Budget and Affordable Assessment

Note: Impact to Town represents available Taxation for Operating Budget after accounting for Wages with all other accounts level funded.

| Option 1 | Use FY25 Budgeted Excess Capacity Figure | 1,149,954  |
|----------|--|------------|
|          | Preliminary Working Budget Balance       | 309,367    |
|          | Impact to Affordable Assessment:         |            |
|          | Current Affordable Assessment            | 12,143,442 |
|          | Amount of Increase                       | 334,759    |
|          | FY26 Affordable Assessment               | 12,478,201 |
|          | % Increase                               | 2.76%      |

| Option 2 | Use FY24 Method to Integrate Unexpected New Growth FY25 Budgeted Excess Capacity plus 75% FY25 New Growth | 1,314,312  |
|----------|---|------------|
|          | Preliminary Working Budget Balance  | 157,012    |
|          | Impact to Affordable Assessment:  |            |
|          | Current Affordable Assessment   | 12,143,442 |
|          | Amount of Increase  | 254,847    |
|          | FY26 Affordable Assessment  | 12,398,289 |
|          | % Increase  | 2.10%      |

| Option 3 | Adjust to Allow Average Increase to AA (based on 10 year average) | 861,000    |
|----------|---|------------|
|          | Preliminary Working Budget Balance                                | 457,967    |
|          | Impact to Affordable Assessment:                                  |            |
|          | Current Affordable Assessment                                     | 12,143,442 |
|          | Amount of Increase  | 474,703    |
|          | FY26 Affordable Assessment  | 12,618,145 |
|          | % Increase  | 3.91%      |

### ARPA Spending Strategy Running Balance 10.30.2024

ARPA= American Rescue Plan Act of 2021

\$2,454,622 total available to Montague

### **Encumbered Projects**

| Account          | Category                       | Project                                    | Vote       | Allocated | Spent/obligated | Unspent/unobligated Status              |  |
|------------------|--------------------------------|--|------------|-----------|-----------------|---|--|
| 225-5-128-5800-0 | 04 Infrastructure/ Wastewater  | Vactor truck                               |            | 400,000   | 400,000         | 0 CLOSED                                |  |
| 225-5-128-5800-0 | 06 Infrastructure/ Wastewater  | Montague City Road Emergency Sewer Repair  | 11/1/2022  | 153,88    | 153,881         | 0 CLOSED                                |  |
| 225-5-128-5800-0 | 05 Infrastructure/ Wastewater  | Screw Pump Replacement (Engineering)       |            | 19,270    | 19,270          | 0 CLOSED                                |  |
| 225-5-128-5800-0 | 03 Infrastructure/ Wastewater  | Collection System Study                    | 2/7/2022   | 69,109    | 69,109          | 0 CLOSED                                |  |
| 225-5-128-5800-0 | 02 Infrastructure/ Wastewater  | CSO LTCP Update                            |            | 49,000    | 49,000          | 0 CLOSED                                |  |
| 225-5-128-5800-0 | 13 Infrastructure/ Wastewater  | Septage Receiving Station                  | 5/1/2023   | 3 264,000 | 228,131         | 35,869 under contract                   | will be installed this Fall              |
| 225-5-128-5800-0 | 12 Infrastructure/ Wastewater  | Operations Building Boiler Replacement     | 5/1/2023   | 3 500     | 500             | 0 CLOSED                                |  |
| 225-5-128-5800-0 | 11 Infrastructure/ Wastewater  | CWF RTV                                    | 5/1/2023   | 3 25,000  | 25,000          | 0 CLOSED                                |  |
| 225-5-128-5800-0 | 16 Infrastructure/ Wastewater  | Vactor Dumping Pad                         | 6/12/2023  | 15,000    | 15,000          | 0 CLOSED                                |  |
| 225-5-128-5800-0 | 25 Infrastructure/ Wastewater  | Burn Dump Closure Design                   | 11/13/2023 | 35,000    | 35,000          | 0 CLOSED                                |  |
| 225-5-128-5800-0 | 18 Infrastructure/ Wastewater  | CWF Generator install                      | 9/11/2023  | 3 (       | 0               | 0 CLOSED                                |  |
| 225-5-128-5800-0 | 31 Infrastructure/ Wastewater  | Screw Pump Bid Overage                     | 9/9/2024   | 240,78    | 240,784         | 0 under contract                        |  |
| 25-5-128-5800-0  | 32 Infrastructure/ Wastewater  | Screw Pump Contingency                     | 9/9/2024   | 88,92     | 3 0             | 88,923 contingency                      |  |
| 25-5-128-5800-0  | 09 Economic/Community Recovery | Trash Receptacles                          | 12/19/2022 | 11,68     | 11,685          | 0 CLOSED                                |  |
| 25-5-128-5800-0  | 05 Economic/Community Recovery | Holiday lights                             |            | 19,40     | 19,403          | 0 CLOSED                                |  |
| 25-5-128-5800-0  | 06 Economic/Community Recovery | Winter Parking signs                       |            | 5,758     | 5,758           | 0 CLOSED                                |  |
| 25-5-128-5800-0  | 10 Economic/Community Recovery | Avenue A Streetscape Phase IV Design       | 3/6/2023   | 46,800    | 46,800          | 0 under contract                        |  |
| 25-5-128-5800-0  | 26 Economic/Community Recovery | Avenue A Streetscape Phase IV Construction | 5/6/2024   | 232,778   | 3 232,778       | 0 under contract                        |  |
| 25-5-128-5800-0  | 17 Economic/Community Recovery | Social Services Gap Funding                | 5/8/2023   | 3 29,978  | 29,978          | 0 CLOSED                                |  |
| 25-5-128-5800-0  | 14 Economic/Community Recovery | Mural Project on Shea Theater              | 5/15/2023  | 25,000    | 25,000          | 0 under contract                        |  |
| 25-5-128-5800-0  | 15 Economic/Community Recovery | Falls Fest 2023                            | 6/12/2023  | 3,12      | 3,124           | 0 CLOSED                                |  |
| 25-5-128-5800-0  | 19 Economic/Community Recovery | Cultural Council Match FY24 and FY25       | 8/7/2023   | 18,000    | 12,410          | 5,590 waiting on remaining FY25 expendi | itures from Cultural Council             |
| 25-5-128-5800-0  | 21 General Capital             | Town Hall Annex Solar                      | 6/5/2023   | 192,93    | 192,931         | 0 under contract                        |  |
| 25-5-128-5800-0  | 22 General Capital             | Old Town Hall Windows                      | 6/5/2023   | 148,619   | 148,619         | 0 CLOSED                                |  |
| 25-5-128-5800-0  | 23 General Capital             | Old Town Hall Roof Repair                  | 6/5/2023   | 48,97     | 48,973          | 0 CLOSED                                |  |
| 25-5-128-5800-0  | 24 General Capital             | Unity Skate Park Lights                    | 6/5/2023   | 95,998    | 95,998          | 0 under contract                        |  |
| 25-5-128-5800-0  | 01 Contingency                 | COVID Test Kits                            | 1/3/2022   | 18,450    |                 | 0 CLOSED                                |  |
| 25-5-128-5800-0  | 27 Contingency                 | Airport Mower                              | 7/22/2024  | 16,04     | 16,043          | 0 CLOSED                                |  |
| 25-5-128-5800-0  | 28 Contingency                 | Montague Village Ctr Complete Streets      | 8/5/2024   | 20,200    | 20,200          | 0 under contract                        |  |
| 25-5-128-5800-0  | 30 Contingency                 | Sheffield Afterschool Program              | 9/9/2024   | 75,000    | 0               | 75,000                                  | documentation from GMRSD?                |
| 25-5-128-5800-0  | 29 Contingency                 | Carnegie Basement Overage                  | 9/9/2024   | 32,08     | 32,088          | 0 under contract                        | amount increased from 27k by vote on 10/ |
| 225-5-128-5800-0 | 33 Contingency                 | 11th Street Bridge Overage                 | 10/21/2024 | 51,73     | 51,738          | 0 under contract                        |  |

total allocated 2,453,034 2,247,651
ARPA Funds Unallocated 1,588
total closed out 1,068,793

205,383

 Spending Category
 Spending Target
 Allocated
 Difference

 50% Wastewater Infrastructure
 \$ 1,227,311
 \$ 1,360,467
 \$ (133,156)

 30% General Capital Improvements
 \$ 736,387
 \$ 486,521
 \$ 249,866

 10% Economic/ Community Recovery
 \$ 245,462
 \$ 392,527
 \$ (147,064)

 10% Contingency
 \$ 245,462
 \$ 213,519
 \$ 31,943

 \$ 2,454,622
 \$ 2,453,034
 \$ 1,588



# Office of the Selectboard Town of Montague

1 Avenue A (413) 863-3200 Ext. 107 Turners Falls, MA 01376 FAX: (413) 863-3231

# MEMORANDUM

**Date:** October 31, 2024

**To:** Selectboard

From: Christopher Nolan-Zeller, Assistant Town Administrator

Re: 11<sup>th</sup> Street Bridge Repairs; Recommendation from Capital Improvement Committee

As you recall, the Selectboard approved at its October 21<sup>st</sup> meeting the allocation of \$51,738.00 from the Town's remaining unallocated ARPA funds to be used toward the bid overage of making necessary structure repairs on the 11<sup>th</sup> Street Bridge. In addition, \$12,616.00 from the Bid Overrun Account were used toward this same purpose. A construction contract was then executed with Clayton D. Davenport Trucking, Inc. on October 28, and construction is anticipated to take place mostly in Spring 2025.

Given that this comprised a vast majority of the Town's remaining ARPA funds not already allocated to a project, the idea was raised to submit a Capital Request for funding at Special Town Meeting this February that would cover the full project cost, plus 10% contingency, allowing the ARPA and Bid Overrun costs to be re-allocated toward other purposes.

When discussed with the Capital Improvements Committee during their October 30<sup>th</sup> meeting, the CIC voted unanimously to recommend against this proposal, and instead advised that the Selectboard keep these funds allocated toward the 11<sup>th</sup> Street project. The Committee discussed uncertainty with federal guidance on the encumbrance of ARPA funds not allocated toward a project by December 31, 2024 as its primary motivation for this recommendation, and noted their preference for decisive allocation of these funds, rather than attempting to free up over \$50,000 from ARPA with no clear purpose or project assigned at this time.



# **AGREEMENT FOR ENGINEERING SERVICES**

FOR

SANITARY LANDFILL **ENVIRONMENTAL MONITORING FISCAL YEAR 2025** 

\*\*\*\*\*\*\*\*\*\*\*

# **HIGHWAY DEPARTMENT TOWN OF MONTAGUE, MASSACHUSETTS**

THIS AGREEMENT made this \_\_\_\_ day of October 2024 by and between the Town of Montague, Massachusetts, hereinafter designated as the "TOWN", a municipal corporation duly established by law in the Commonwealth of Massachusetts, as represented by its Board of Selectmen, hereinafter designated and referred to as the "BOARD" and Tighe & Bond, Inc., a corporation incorporated under the laws of Massachusetts, and having its principal office in the City of Westfield, said Commonwealth of Massachusetts, hereinafter designated as the "ENGINEER".

WHEREAS, the Massachusetts Department of Environmental Protection (MassDEP) requires groundwater and surface water monitoring of the Montague Sanitary Landfill (hereinafter "Project"), and

WHEREAS, the BOARD requires professional engineering services relative to conducting the monitoring activities.

**NOW THEREFORE**, the BOARD and the ENGINEER, for the consideration hereinafter named, agree as follows:

# **SECTION 1 - SCOPE OF THE WORK**

The professional engineering services, which are specifically included in this AGREEMENT, are as follows:

### Α. Groundwater, Surface Water and Landfill Gas Monitoring

The ENGINEER shall monitor landfill gas and collect and analyze groundwater and surface water samples in accordance with the program outlined in Attachment A. The ENGINEER shall summarize the data and forward the laboratory reports and data summary to the BOARD after each sampling event.



# **SECTION 2 - COMPENSATION**

The BOARD agrees to pay, and the ENGINEER agrees to accept as full compensation for all work called for and completed under the terms of this AGREEMENT, fees and charges as follows:

A. All services performed under Section 1 shall be furnished on an "hourly plus expense" basis. For the purposes of determining a contract value, it is mutually agreed that the services under this AGREEMENT shall be limited to a maximum fee of \$27,250 for Fiscal Year 2025, invoiced in accordance with ENGINEER's standard billing rates. The breakdown of this limiting fee is as follows:

# Task 1: Semi-Annual Groundwater and Surface Water Monitoring (2 events)

| Labor (Coordination, Sampling & Reporting)       | \$9,200         |
|--|-----------------|
| Laboratory Analysis, Equipment Rental & Expenses | <u>\$16,000</u> |
| Total Estimated Cost                             | \$25,200        |

# Task 2: Semi-Annual Landfill Gas Monitoring (2 events)

| Labor (Coordination, Sampling & Reporting) | \$1,400      |
|--|--------------|
| Equipment Rental & Expenses                | <u>\$650</u> |
| Total Estimated Cost                       | \$2,050      |

- B. For outside services, which are rendered for the ENGINEER by others than its direct employees, the fee shall be the ENGINEER's direct cost-plus ten percent.
- C. Automobile transportation for employees of the ENGINEER traveling in direct reference to the project shall be paid for at the standard Federal rate per vehicle mile at the time of travel.
- D. The ENGINEER shall not be required to provide any engineering services under this AGREEMENT that will result in the limiting fee being exceeded, without first amending this AGREEMENT. In the event that this limiting fee has to be exceeded for reasonable cause, the BOARD and the ENGINEER shall mutually revise it by written amendment to this AGREEMENT. In the event that the BOARD and the ENGINEER cannot reach agreement, the work shall thereupon cease.
- E. Interim payments shall be made monthly to the ENGINEER as the project proceeds. It is understood and agreed that the ENGINEER will be paid only for services rendered by its employees and expenses under this AGREEMENT. All services rendered by TOWN employees will be at no cost to the ENGINEER and it will receive no payment therefore.



# **SECTION 3 - MISCELLANEOUS**

- The BOARD and the ENGINEER each binds itself, its partners, successors, assigns and Α. legal representatives to the other party to this AGREEMENT and to the partners, successors, assigns and legal representatives of such other parties with respect to all covenants of this AGREEMENT. The ENGINEER shall not assign, sublet or transfer its interest in this AGREEMENT without the written consent of the BOARD.
- B. This AGREEMENT represents the entire and integrated Agreement between the BOARD and the ENGINEER and supersedes all prior negotiations, representations or Agreements, either written or oral. This AGREEMENT may be amended only by written instrument signed by both BOARD and ENGINEER.
- C. Nothing contained in this AGREEMENT shall create a contractual relationship with or a cause of action in favor of a third party against either the BOARD or the ENGINEER.

IN WITNESS WHEREOF, the BOARD and ENGINEER have caused these presents to be signed by their respective duly authorized representatives for the purpose on the day and year first written above.

**TOWN OF MONTAGUE** 

|  | BY IT'S BOARD OF SELECTMEN           |
|--|--------------------------------------|
| In the Presence of:                                |                                      |
| In the Presence of:  Certified as to Appropriation | Peter M. Valinski, PE Vice President |
| Town Accountant                                    |                                      |

www.tighebond.com

# **ATTACHMENT A**

GROUNDWATER, SURFACE WATER AND LANDFILL GAS MONITORING

# TABLE 1 Environmental Monitoring Program Parameters

# **General Chemistry**

Field pH

Field Temperature

Field Specific Conductance Field Dissolved Oxygen

Alkalinity

Chemical Oxygen Demand (COD)

Chloride Cyanide

Nitrate (As Nitrogen)

Sulfate

Total Dissolved Solids (TDS)

# Metals

Iron (Fe)

Manganese (Mn)

Arsenic (As)

Barium (Ba)

Cadmium (Cd)

Chromium (Cr)

Copper (Cu)

Lead (Pb)

Mercury (Hg)

Selenium (Se)

Silver (Ag)

Zinc (Zn) Calcium (Ca)

Sodium (Na)

# Volatile Organic Compounds (VOCs)

EPA Method 8260 Including:

Acetone

Methyl Ethyl Ketone (MEK)

Methyl Isobutyl Ketone (MIBK)

**Xylenes** 

+ ID Unknown Peaks @ 2x Base

Separate Low-Level Analysis for 1,4-Dioxane

# Landfill Gas Monitoring - Field Parameters

Methane - total percent

Carbon Dioxide – total percent

Oxygen – total percent

Balance Gas - total percent

| TABLE 2 Environmental Monitoring Program Locations                       |  |  |  |  |  |  |
|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |
| Location Description   |  |  |  |  |  |  |
| Monitoring Wells   |  |  |  |  |  |  |
| Downgradient Shallow Well - North of Landfill                            |  |  |  |  |  |  |
| Downgradient Shallow Well - Northwest of Landfill                        |  |  |  |  |  |  |
| Downgradient Shallow Well - West of Landfill (no longer exists)          |  |  |  |  |  |  |
| Downgradient Shallow Well - Southwest of Landfill                        |  |  |  |  |  |  |
| Upgradient Shallow Well - East of Landfill                               |  |  |  |  |  |  |
| Downgradient Shallow Well - Southeast of Landfill                        |  |  |  |  |  |  |
| Downgradient Shallow Well - Southwest of DW-4                            |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| & Seepage Area Stations  |  |  |  |  |  |  |
| Downstream Station @ Greenfield Road - Randall Brook                     |  |  |  |  |  |  |
| Downstream Confluence - North and South Branches of Randall Brook        |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Downgradient Seepage Area - South Branch Randall Brook                   |  |  |  |  |  |  |
| Discharge Pipe for Internal Drainage from the Old Burn Dump Area - North |  |  |  |  |  |  |
| Branch Randall Brook   |  |  |  |  |  |  |
| New Seepage Area at the Old Burn Dump Area                               |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Landfill Gas Monitoring (3 new gas monitoring wells by others)           |  |  |  |  |  |  |
| Proposed – Between the Landfill and the Transfer Station area            |  |  |  |  |  |  |
| Proposed – Between the Landfill and the Dog Shelter                      |  |  |  |  |  |  |
| Proposed – Between the Landfill and the Judd Wire, Inc. facility         |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |