MONTAGUE CAPITAL IMPROVEMENTS COMMITTEE

MEETING AGENDA

Town Hall Annex Meeting Room One Avenue A, Turners Falls, MA IN PERSON MEETING

Wednesday, November 13, 2024 from 3:30 to 5:00 pm

Votes May Be Taken

- 1. Call to Order and Approve any outstanding meeting minutes: 10/30/24
- 2. Discussion with Selectboard Member Matthew Lord Long-term financing strategy for capital projects
- 3. Discuss anticipated FY26 capital project budget
- 4. Review and approve FY26 capital planning cycle timeline
- 5. Initial review and discussion of FY26 non-school capital article requests and Winter Special Town Meeting requests
- 6. Status review of ongoing major capital projects
- 7. Topics not anticipated in the 48 hour posting requirements
- 8. Establish next meeting date(s)
- 9. Adjournment



Budget Year FY 26

This form is intended for use with capital article submissions ≥ \$25,000 with a lifespan of 5+ years. For major building projects, please consult the Town Administrator.

Please complete this form in its entirety! Initial Submission due 10/31/2024.

Department:	Airport	Submitted by:	Bryan Camden / Airport Commission
tem/Project Cost:	\$ 18,000	Date Prepared:	10/01/2024
tem/Project Title:	Repalce oil fired heatin	ng system with heat pump systen	n (Mini-Split System)

Proposed Article Wording:

To see if the Town will vote to raise and appropriate, transfer from available funds, borrow, or otherwise provide the sum of \$24,000, or any other amount, for the purpose of << >>, including any and all incidental and related costs, or pass any vote or votes in relation thereto.

Detailed Description for Background Materials: (Provide a full description of the item or service. <u>Use attachments as needed.</u>)

I have spent some time reviewing the HVAC systems around the airport this fall. One items that we have been looking at since the purchase of the Pioneer Aviation property is the hot air furnace located inside of Pioneer Aviation office building. The unit was installed in 2001 and is not really the best fit for our heating needs. While functional, it is oversized for the need and has very limited circulation ducting work. We do have the unit services annually, this year it was identified that we should be looking to re-duct the unit if we would like to increase the efficiency, as well as replace the blower unit assembly (motor is overheating and bearings are gone), and reseal the burner chamber. At this time, we have decided it would not be in the best financial interest to invest \$2,000 to \$2,500 into the unit for the recommended repairs / upgrades due to its age and efficiency. We have looked into other options that would combine a new efficient heating system with air conditioning and have gotten several quotes. Afte talking with 4 contractors, the consensus was to install an external heat pump & and internal air handler (mini-split system). We have looked into the rebates from MassSave, and from what we were told we can might be able to recover roughly 60% of the total cost of the unit and installation. Without any rebates, the quotes ranged from \$17,800 to \$29,500, with Nolan Plumbing being the lowest to date at \$18,800. An additional cost of \$5,000 may be needed to upgrade the existing electrical panel and connect the unit.

Scoping Questions	Yes	No		
Please elaborate in the comments box at bottom of the page				
Do you have a written estimate or proposal for the scope of work? If yes, attach the estimate	×			
Is there a lease option for this expense?		×		
Will this item or project replace a capital asset?		×		
Will this create ongoing costs or savings?	×			
Will this leverage grant or other external funding?	×			
Is this request identified on the Capital Improvement Plan?		×		
Describe how the project/ purchase will be managed				
Who will manage procurement and execution of the project? Will external resources be required for design, engineering, procurement, or construction oversight? The unit would be installed upon approval by the selected vendor. The vendor will have 30 days from approval to complete the project. Once installed, we will seek funds from MassSave to cover part of the total project cost.				

Why is it essential that the Town makes this investment now?

Make your argument for why this project is necessary and timely. Articulate the benefits of the project. If necessary, describe the consequences of inaction.

We do have a functioning heating system as of right now, and I do think it will operate for the duration of this heating season without much of an issue. Beyond that I am not as confident that the system will continue to operate correctly. Like we typically do, I am looking at the best course of action and best cost for the future operations. This is considered a preventative maintenance and upkeep item that we should address in the next year or so. We did intend in allocating some funds from the FY26 budget to update the system to be more user friendly, as right now we struggle to keep the pilots' training room, restrooms, and lounge warm in the winter and cool in the summer months, but only if the budget would allow.

Relative Priority: Your assessment of	f the how important this is to the	Town at the present time.
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Critical Importance

Highly Important

Moderately Important

0

0



ESTIMATE ESTIMATE DATE	#653 Sep 10, 2024
SERVICE DATE	Sep 10, 2024 Sep 3, 2024
TOTAL	\$18,700.00

Nolan Plumbing And Hvac

Town of Montague MA Town of Montague 10 Aviation Way Montague, MA 01376

(413) 522-8620

airport@montague-ma.gov

CONTACT US

26 Clark St Greenfield, MA 01301

(413) 325-8279

nolanplumbingandhvac@gmail.com

ESTIMATE

Services

HVAC INSTALLATION \$18,700.00

Samsung max heat system installation 1:1 installation of 1 indoor units: 36000 BTU AIRHANDLER

installation of refrigerant lines, drains and communication wire exposed lines will be covered in guard pressure test and evacuation of system system registration and overview outdoor unit will be placed on ground stand and blocks installation of new supply and return trunk runs installation of standard ceiling registers installation of return air box and filter

EQUIPMENT

Samsung CXH36SCB / AC036BXSCCH Outdoor Unit Heat Pump Max Heat CAC 36K BTU

Samsung CNH36ZDK / AC036KNZDCH Indoor Unit CAC Multi-Position Air Handler 36K BTU 208/230 Volt 1 Phase

Samsung MWR-WG00UN

Controller Advanced Wired 4-3/4L x 3/4W x 4-3/4H Inch Time Synchronization with DMS2.5 Gateways Dual Set Temperature and Quiet and Sleep Modes

Samsung VHK-210A Electric Heater Medium Chassis 10 Kilowatt

Total

\$18,700.00

NOTE

*Estimate is subject to a 10%-15% +/- change due to equipment price changes

Financing avaiable upon request

Rebates MAY BE available from mass save all rebates are not guaranteed and subject to change without notice

NPH can assist to file rebates but holds no responsibility for rebates or amounts

Energy Audits are required for most rebates must contact and schedule appointment at 866-527-7283

Thank you for doing business with us!



Budget Year FY 26

This form is intended for use with capital article submissions ≥ \$25,000 with a lifespan of 5+ years. For major building projects, please consult the Town Administrator.

Please complete this form in its entirety! Initial Submission due 10/31/2024.

Check Here if this an expedited request for Winter 2024 Special Town Meeting Bryan Camden / Airport Commission Submitted by: Department: Airport 10/01/2024 Date Prepared: \$95,000.00 Item/Project Cost: Item/Project Title: Pave Parking Lot Proposed Article Wording: To see if the Town will vote to raise and appropriate, transfer from available funds, borrow, or otherwise provide the sum of \$95,000.00, or any other amount, for the purpose of << >>, including any and all incidental and related costs, or pass any vote or votes in relation thereto. Detailed Description for Background Materials: (Provide a full description of the item or service. Use attachments as needed.) This project is to install 4" of pavement in the existing Pioneer Aviation parking lot. The existing parking lot consists of a mixture of failed pavement, sandy soils, and turf. The recent wet summer season caused significant washout issues for the parking lot, and the lack of any permanent freezing for the last 2 winter seasons created maintenance issues. This project would include the removal of all existing materials, grading for drainage, installation of 10" of hard pack base materials, and 4" of asphalt final paving layers. This project will be overseen by the airport on call engineering firm Gale Associates.

Scoping Questions	Yes	No
Please elaborate in the comments box at bottom of the page		
Do you have a written estimate or proposal for the scope of work?	×	
If yes, attach the estimate		×
Is there a lease option for this expense?		
Will this item or project replace a capital asset?		×
Will this create ongoing costs or savings?	×	
Will this leverage grant or other external funding?	×	
Is this request identified on the Capital Improvement Plan?		×
Describe how the project/ purchase will be managed		
Who will manage procurement and execution of the project? Will external rengineering, procurement, or construction oversight? The majority of the polynomial engineering firm Gale Associates.	resources be re roject will be	overseen by the airport
Why is it essential that the Town makes this investment now? Make your argument for why this project is necessary and timely. Articulate the be consequences of inaction. Like other airport projects, this is part of the long term property upgrades a no maintenance prior to the purchase of the property has created a backlo be funded from airport revenues and federal grants, some do not qualify for parking lots, walkways, and roadways currently do not qualify for state or for and usable access parking area for the airport users it is critical that we executed the property of the property has created a backlo be funded from airport revenues and federal grants, some do not qualify for parking lots, walkways, and roadways currently do not qualify for state or for any users it is critical that we executed the property has created a backlo be funded from airport revenues and federal grants, some do not qualify for parking lots, walkways, and roadways currently do not qualify for state or for any users it is critical that we executed the property has created a backlo be funded from airport revenues and federal grants, some do not qualify for state or for any users.	and daily upke g of projects. V or any externa Gederal funding	ep. Due to years of limited or While many of the projects can I funding. Public areas such as 3. In order to maintain a safe
Relative Priority: Your assessment of the how important this is to the Critical Importance Highly Important Moderate	e Town at the	present time.
O O	0	
Comments and additional information:		





Warner Bros., LLC

PO Box 91, Sunderland, MA 01375 · 413.665.7021

To: Address:	Turners Falls Municipal Airport 1 Avenue A Turner's Falls, MA 01376	Contact: Phone: Fax:	Bryan Camden	
Project Name:	Hanger Turners Falls AP	Bid Number:	Q-360	
Project Location:	10 Aviation Way, Turners Falls, MA	Bid Date:	10/23/2024	
		 11-24	Unit Drice	Total Drice

Item #	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
zcciii iii	Reclaim	1,685.00	SY	\$6.75	\$11,373.75
170.	FINE GRADING AND COMPACTING	1,635.00	SY	\$3.95	\$6,458.25
450.	GRAVEL FOR SURFACING	68.00	CY	\$77.75	\$5,287.00
452.	ASPHALT EMULSION FOR TACK COAT	85.00	GAL	\$32.50	\$2,762.50
1635 +/- SY	SUPERPAVE SURFACE COURSE – 9.5 (SSC – 9.5)	140.00	TON	\$199.00	\$27,860.00
1.5" 1635 +/- SY 2.5"	SUPERPAVE INTERMEDIATE COURSE - 19.0 (SIC - 19.0	230.00	TON	\$169.00	\$38,870.00

Total	Bid	Price:	\$92,611.50

Notes:

- Please find the attached Standard Conditions document. By signing below, buyer acknowledges and agrees that it has also read and approved Contractor's Standard Conditions, as required included parts of this contract. This contract constitutes the entire agreement between the Contractor and Buyer and may only be modified by a written amendment executed by both parties. This proposal is accepted upon receipt of Buyer's signature, and the Contract is effective as of the date of Contractor's signature tendered to Buyer. Executed by both parties as a sealed instrument.
- Prices are based upon current liquid asphalt costs, which are not guaranteed by suppliers and, therefore, subject to sudden adjustment during the term of this agreement. The base cost (index) of asphalt for this quote is \$_560.00 per ton.
- Prices are based on two mobilization(s). Additional mobilizations which become necessary will be subject to a charge of \$ 3500.00
- All fees, permits, and engineering will be the responsibility of the buyer unless otherwise noted above. No bonds will be supplied. Above quantities are estimates only and are subject to adjustment determined by Field Measure unless otherwise noted above.
- Center Line layout & Slope Layout done By general Contractor.
- · Day work quoted in price.
- All traffic control shall be the responsibility of the General Contractor
- General Contractor to clean, prep, cover and mask existing surfaces as necessary
- Temporary Ramps and Removal of Temporary Pavement are not included in price
- CL Toms and Temp Striping As required By GC
- ASC To reserve the rights to subcontract Items as needed.
- · QC testing at the plant and the street is included in our pricing. Any Bonus or deduct attributable to the material is to be remitted to All States Construction Based on the installed bid price.
- · Survey control points as required to layout project to be supplied by others. All staking, layout, and establishment of grades to be done by others and clearly marked prior to work. Warner Bros., LLC will not accept responsibility for improper engineering and/ or areas where no grades were indicated prior to work.
- All Prep for Paving including sweeping and saw cutting are excluded unless stated otherwise herein.
- Gravel is to be placed by others and fine graded to the required grade, all compaction of sub-base and gravel is to be done by others prior to paving, any and all testing/ in place density tests are to be done by others. Unless specifically included in quoted scope of work. Fine Grading will be from 1" +/- if quoted
- Projects that are Tax exempt buyer will be responsible to submit exempt certificate with signed contract.
- All traffic and safety control by others unless stated Herein
- This is a unit price quotation with quantities to be verified upon completion. Contract amount will be determined by extending verified quantities at quoted unit prices. Customer is responsible to verify all quantities in this proposal.
- No Credit card payment is allowed unless stated Herein. Approved Credit Card payment will incur a 5% fee.
- PLEASE SIGN AND RETURN a copy of this quote by E-Mail, Fax (413-674-2021) to Warner Bros., LLC, if you agree with price, terms, and all conditions, so we may assign a job # to the project and schedule your work. (Work will NOT be scheduled until the quote is signed)
- This quote is valid if accepted within 30 days.
- · Loam & Seed by others
- Line Striping by others
- Paving after October 31st or when Ambient Temperatures are below 40 degrees will be on the Direction of Owner/ Buyer. Warner Bros., LLC will not accept responsibility for work affected by Temperature. Warner Bros., LLC may require a signed waiver to proceed.

• By others Line painting, Loam & Seed, Tree protection, Sediment Control, New Castings If needed

Payment Terms:

Payment terms are net 30 days, no retainage is permitted by Buyer, unless stated above, and subject to credit approval. Contractor may set off past due balances against any amount due or which becomes due to the Buyer from Contractor or any of its affiliates or subsidiaries. Balances not paid within above terms are subject to default interest at 1.5% monthly percentage rate. In such event, Buyer agrees to reimburse Contractor all collection costs including reasonable attorney's fees and court costs. Contractor reserves all rights to file lawfully permitted liens and seek other lawful remedies.

ACCEPTED:	CONFIRMED:
The above prices, specifications and conditions are satisfactory and hereby accepted.	WB LLC
Buyer:	James Houle
Signature:	Authorized Signature:
Date of Acceptance:	Estimator: James Houle jimh@asmg.com

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Budget Year **FY 26**

This form is intended for use with capital article submissions ≥ \$25,000 with a lifespan of 5+ years. For major building projects, please consult the Town Administrator.

Please complete this form in its entirety! Initial Submission due 10/31/2024.

Department:	CWF	Submitted by:	Chelsey Little
Item/Project Cost:	\$48,500	Date Prepared:	10/28/2024
Item/Project Title:	Conference Room/Break Room Rer	novation (Main Gener	rator Project Phase-Two)

Check Here if this an expedited request for Winter 2024 Special Town Meeting

Proposed Article Wording:

To see if the Town will vote to raise and appropriate, transfer from available funds, borrow, or otherwise provide the sum of \$48,500, or any other amount, for the purpose of conducting a conference room and breakroom renovation, including any and all incidental and related costs, or pass any vote or votes in relation thereto.

Detailed Description for Background Materials: (Provide a full description of the item or service. <u>Use attachments as needed</u>.)

Breakroom	
Mini-Split:	\$5,000
Drop Ceiling:	\$3,000
Exterior Wall Repairs (from old louver and double door):	\$5,000
New Exterior Insulated Door:	\$2,500
Breakroom Kitchen:	\$11,500
Tile Floors:	
Asbestos Removal:	\$10,000
Total:	\$39,500
Conference Room	
Conference Table ~120"x48":	\$3,000
Chairs x10:	\$1,500
File Cabinets x5:	
Paper Plans/Maps Cabinet:	\$300
Total:	\$6,600
Contingency 5%:	\$2,305
Grand Total:	.\$48,405→Rounded to \$48,500

Scoping Questions Please elaborate in the comments box at bottom of the page	Yes	No
Do you have a written estimate or proposal for the scope of work? If yes, attach the estimate		
Is there a lease option for this expense?		\boxtimes
Will this item or project replace a capital asset?		\boxtimes
Will this create ongoing costs or savings?		\boxtimes
Will this leverage grant or other external funding?		\boxtimes
Is this request identified on the Capital Improvement Plan?	\boxtimes	
Describe how the project/ purchase will be managed	(From Original	Project)
The CWF will oversee procurement and execution of the project.		
Why is it essential that the Town makes this investment now? This project is considered phase two of the Main Consister replacement project.	ct whore after t	the main generator has
This project is considered phase two of the Main Generator replacement project been removed from the room in the Administration Building, the room will be		-
Converting the old generator room would alleviate two issues by:		
-creating a larger updated staff breakroom space		
-provide a much-needed conference/meeting room for the facility (Staff curred impromptu meeting room space)	ntly shares the b	reakroom as an
As the old generator room has a larger footprint than the current break room, breakroom. The old staff breakroom will be converted into a conference/meet storage.		

Relative Priority: Your assessment of the how important this is to the Town at the present time.

Critical Importance

Highly Important

Moderately Important

0



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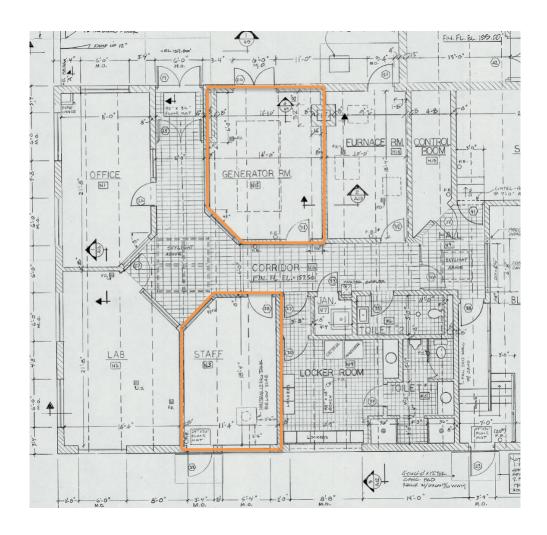
Comments and additional information:

Request to fund through retained earnings.

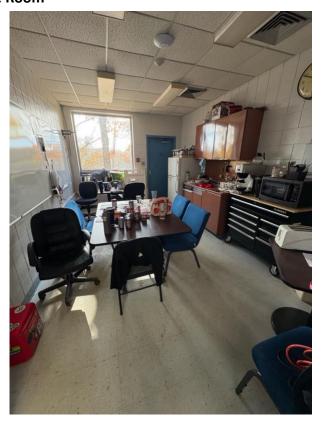
Supporting Photos/Diagrams/Documents

Generator Room→New Break Room





Staff Breakroom→Conference Room



Special Article Request: Capital Expense (rev 9.26.24)



Budget Year **FY 26**

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Please complete this form in its entirety! Initial Submission due 10/31/2024.

Check Here if this an expedited request for Winter 2024 Special Town Meeting				
Department:	CWF	Submitted by:	Chelsey Little	
Item/Project Cost:	\$60,000	Date Prepared:	10/28/2024	
Item/Project Title:	Excavator (used)			
Proposed Article Word	ling:			
provide the sum of	vill vote to raise and appropriate, the second seco	the purpose of pro	ocuring an excavator including any	
Detailed Description fo	or Background Materials: (Provide a fu	ll description of the item	or service. <u>Use attachments as needed</u> .)	
Mini/Small Excavator	(used):		\$60,000	
Total:			\$60,000	

Scoping Questions		Yes	No
Please elaborate in the com	ments box at bottom of the page		
Do you have a written estim If yes, attach the esti	ate or proposal for the scope of wor	k? 🗵	
Is there a lease option for th	is expense?	\boxtimes	
Will this item or project repl	ace a capital asset?		\boxtimes
Will this create ongoing cost	s or savings?	\boxtimes	
Will this leverage grant or ot	ther external funding?		\boxtimes
Is this request identified on	the Capital Improvement Plan?		\boxtimes
Describe how the project/ p	ourchase will be managed		
Who will manage procuremen	nt and execution of the project? Will ext	ernal resources be requi	red for design,
engineering, procurement, or	construction oversight?		
The CWF will oversee procure	ement and execution of the project.		
The CWF performs many on-s facility is also responsible for has borrowed other municipal on multiple projects for calen excavator to have on site con	Town makes this investment now? Fite and off-site routine updates and specifie and off-site routine updates and specified and groundskeeping, except excavators and spent over \$25,000 on dar year 2024, and would rather invest sistently. In the purchase a brand-new excavator,	avation, and lifting work the rental of a small exc that money in the futur	when necessary. The CWF avator to perform site work e into purchasing a used
	ssment of the how important this is		esent time.
Critical Importance O	Highly Important Mod O	derately Important	
Comments and additional in	nformation:		
Request to fund through retai	ined earnings		

Supporting Photos/Diagrams/Documents

Example of Requested Excavator

2017 VOLVO ECR88D



USD - USD \$57,500

Machine Location: 60 State Rd. Phillipston, Massachusetts 01331

(978) 249-4600

Seller Information

BROOKSIDE EQUIPMENT

Contact: Sales

Phillipston, Massachusetts

01331



Description

Hide Thumbnails

24" bucket, hydraulic thumb, cab w/ a/c, 7'7" blade, 4 cyl Volvo turbo, roadliner pads, swing boom, 21k lbs



Budget Year **FY 26**

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Please complete this form in its entirety! Initial Submission due 10/31/2024.

Check Here if this an expedited request for Winter 2024 Special Town Meeting				
Department:	CWF	Submitted by:	Chelsey Little	
Item/Project Cost:	\$30,000	Date Prepared:	10/28/2024	
Item/Project Title:	Pump Station Portable Generator F	Replacement		
Proposed Article Word	ling:			
provide the sum of	•	the purpose of re	able funds, borrow, or otherwise placing the pump station portable vote or votes in relation thereto.	
Detailed Description fo	or Background Materials: (Provide a fu	III description of the item	or service. <u>Use attachments as needed</u> .)	
30 kW 3-Phase Portab	le Generator:	\$30	0,000	
Total:		\$30	0,000	

Scoping Questions	Yes	No			
Please elaborate in the comments box at bottom of the page					
Do you have a written estimate or proposal for the scope of work? If yes, attach the estimate					
Is there a lease option for this expense?		\boxtimes			
Will this item or project replace a capital asset?	\boxtimes				
Will this create ongoing costs or savings?		\boxtimes			
Will this leverage grant or other external funding?		\boxtimes			
Is this request identified on the Capital Improvement Plan?	\boxtimes				
Describe how the project/ purchase will be managed					
Who will manage procurement and execution of the project? Will externo	al resources be requ	uired for design,			
engineering, procurement, or construction oversight?					
The CWF will oversee procurement and execution of the project.					
Why is it essential that the Town makes this investment now?					
The current back-up portable generator is circa 1981 and is overdue for replacement. A recent inspection performed by the service technician. PowerGen Technologies LLC, has recommended replacement as parts on the 1981 generators.					
the service technician, PowerGen Technologies LLC, has recommended replacement as parts on the 1981 generators					
have become obsolete and cannot be replaced if the generators fail. DEP/MGL also requires operable and serviceable					
generators at all wastewater pumping stations in order to prevent a backup and discharge of untreated sewage during power outages. The portable generator is a redundant back-up power supply to any out of service fixed generators					
located at any of the eight (8) pump stations.	pply to any out of s	service fixed generators			
located at any of the eight (8) pump stations.					
Relative Priority: Your assessment of the how important this is to t	he Town at the pr	resent time.			
Critical Importance Highly Important Modera	tely Important				
0	0				
Comments and additional information:					
Request to fund through retained earnings.					

Supporting Photos/Diagrams/Documents

Current Portable Generator



1616 JAMES P RODGERS DR VALDOSTA, GA 31601-7094 PHONE: (229)-671-9171 WWW.PDGPOWER.COM



Estimate

Order#	Date
S15440	10/02/2024

Bill To:

POWERGEN TECHNOLOGIES

44 Hopyard Rd

Stafford Springs, CT 06076

Customer: POWERGEN TECHNOLOGIES

Ship To:	
POWERGEN TECHNOLOGIES	
44 Hopyard Rd	
Stafford Springs, CT 06076	

Contact: POWERGEN TECHNOLOGIES

Sales Rep	Carrier	Ship Service	Estimated Tax
Elias Serrano	DELIVER		\$ 0.00

Description	Unit Price	Qty Ordered	Total Price
30 kW 3 PHASE OPEN FRAME GENERATOR - EPA CERTIFIED FOR EMERGENCY	\$12,068.00	1 ea	\$ 12,068.00
STANDBY USE			

PERKINS 404D-22TG Turbo After Cooled Diesel Engine

- 12 Volt System
- 1000 Amp Marine Grade Battery
- Low Oil Pressure & High Coolant Temp Shutdowns are Standard
- CK-4 Spec 15-40 Diesel Oil & 50/50 Engine Coolant Included
- Remote Oil Drain Valve Installed with Hose
- Industrial Grade Aluminized Exhaust Muffler
- Assembled, Wired, & Mounted on Steel Cross Members with Anti-Vibration

Motor Mounts

WOOD WOUTS			
THREE PHASE - 208 VOLT	\$0.00	1 ea	\$ 0.00
MAIN DISCONNECT BREAKER - 100 Amp 3 Pole 208 Volt NEMA 1 Installed, Wired	\$389.00	1 ea	\$ 389.00
ComAP AMF5	\$495.00	1 ea	\$ 495.00
REMOTE EMERGENCY STOP BUTTON	\$39.99	1 ea	\$ 39.99
COLD WEATHER PACKAGE 12V 750W - MOBILE Includes: •ComAp 12V Battery InteliCharger	\$648.00	1 ea	\$ 648.00
•Block Heater 750W			
•Noco AC Port Receptacle			
ENCLOSURE - LEVEL 1 ACOUSTIC	\$3,295.00	1 ea	\$ 3,295.00

- Industrial Grade Powder Coated Aluminum Enclosure with Steel Skid
- UL-94, MVSS 302, & HF-1 Certified, Foil Backed, Level 1 Sound Attenuating Acoustic Foam Installed.
- Large Access Doors with Locks for Security and Ease of Maintenance
- All Stainless Steel Latches and Hardware
- Includes Locking Door for Key Start or Auto Controller

A1

1616 JAMES P RODGERS DR VALDOSTA, GA 31601-7094 PHONE: (229)-671-9171 WWW.PDGPOWER.COM



Estimate

Order#	Date
S15440	10/02/2024

Description RODENT GUARD PACKAGE	Unit Price \$219.00	Qty Ordered 1 ea	Total Price \$ 219.00
 Safeguards Generator from Entry and Damage by Rodents, Snakes, and Birds Protects Intake & Exhaust Ports, Fork Pockets, and Any Points of Entry in the Enclosure or Skid 			
DOT FUEL TANK - 50 GALLON SINGLE WALL Sub-Base Fuel Tank Manufactured to DOT Compliant Standards - Industrial Powder Coated 11 Gauge Steel - Reinforced with Internal Structural Supports & Baffles - Forged UL Compliant Fittings - (Pickup, Return, Fill, Vent)	\$2,635.00	1 ea	\$ 2,635.00
Includes 1 quart of DIESEL MATE™ ALL SEASONS ADDITIVE (Treats 250 Gallons)			
External Coolant Drain- Flanged to Pass Through Frame or Skid	\$249.00	1 ea	\$ 249.00
External Oil Drain- Flanged to Pass Through Frame or Skid	\$249.00	1 ea	\$ 249.00
PDG HD GENSET TRAILER - SINGLE AXLE with BRAKES D.O.T. CERTIFIED - Single 5,200# Torsion Axle with Electric Brakes - 2" Ball Receiver - Drop Leg Tongue Jack - 15" Wheels & Tires - Fenders, License Plate Mount, & DOT Compliant Lights - Includes Certificate of Origin / Title GVWR: 5,200#	\$5,949.00	1 ea	\$ 5,949.00
ESTIMATED OUTBOUND FREIGHT CHARGES - HOTSHOT Shipping Charges are ESTIMATED at Time of Quotation and May be Higher at Time of Shipping. ACTUAL SHIPPING CHARGE will be Finalized at Time of Shipment. Any Difference will be added to Final Invoice. THIS IS A HOTSHOT FREIGHT DELIVERY * YOU MUST HAVE PROPER EQUIPMENT TO SAFELY REMOVE THE GENERATOR FROM THE DELIVERY VEHICLE OR TRAILER AT THE TIME OF ARRIVAL.	\$1,595.00	1 ea	\$ 1,595.00
WARRANTY KUBOTA KUBOTA ENGINE WARRANTY 3 YEARS / 3,000 HOURS CONTACT SALES CONSULTANT FOR MORE DETAILS	\$0.00	1 hr	\$ 0.00

1616 JAMES P RODGERS DR VALDOSTA, GA 31601-7094 PHONE: (229)-671-9171 WWW.PDGPOWER.COM



Estimate

Order#	Date
S15440	10/02/2024

Description	Unit Price	Qty Ordered	Total Price
PDG EXTRANEOUS COMPONENTS WARRANTY	\$0.00	1 hr	\$ 0.00
PDG Industrial - Extraneous Components Warranty			
PDG warrants the following components for a period of one year from date of			
delivery to original owner:			
Enclosures, Fuel Tanks, Meters & Gauges, Timers, Block Heaters, and Auto-			
Controllers.			
This warranty is handled by Powerhouse Diesel Generators			
LEAD TIME ESTIMATES ARE CALCULATED TO PROJECT BUILD TIME AND	\$0.00	1 hr	\$ 0.00
APPROXIMATE SHIP DATE. LEAD TIMES DO NOT INCLUDE TRANSIT/DELIVERY			
TIME. LEAD TIME STARTS UPON RECEIPT OF PAYMENT.			
Lead time estimates are not guaranteed, and are sometimes at the mercy of			
our supply chain as well as circumstances beyond our control. Feel free to			
contact us for a more accurate assessment of production time.			
-Quotes Are Valid For 30 Days-			

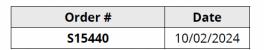
13 - 15 WEEKS ESTIMATED PRODUCTION LEAD TIME.

COVID STATEMENT We have all seen many changes in the status of the coronavirus situation in the past months, weeks, and days. Even though the outbreak is abating, it can and does occasionally have an impact on our supply chains and shipping. PDG, Inc,	\$0.00	1 hr	\$ 0.00
however, will do everything possible to meet the estimated completion times for your generator.			
PDG, Inc will continue to communicate regularly with our suppliers and shippers, to closely monitor all developments and keep you informed of any changes that may impact the delivery of our products. Please understand that problems and delays with supply, production, or shipping related to COVID are beyond our control.			
Thank you for your patience in these trying times.			
The Staff of Powerhouse Diesel Generators, Inc.			
TERMS:	\$0.00	1 ea	\$ 0.00

A 50% deposit is required to begin processing your order. Balance is Due 7 Business Days Before Shipping.

1616 JAMES P RODGERS DR VALDOSTA, GA 31601-7094 PHONE: (229)-671-9171 WWW.PDGPOWER.COM







\$27,830.99	Subtotal:
\$0.00	AVATAX:
\$27,830.99	Total:
\$0.00	Paid:
\$27,830.99	Balance Due:



Budget Year **FY 26**

This form is intended for use with capital article submissions ≥ \$25,000 with a lifespan of 5+ years. For major building projects, please consult the Town Administrator.

Please complete this form in its entirety! Initial Submission due 10/31/2024.

	Check Here if this	an expedited reque	est for Winter 2024	Special Town Meeting
Department:	CWF		Submitted by:	Chelsey Little
Item/Project Cost:	\$37,800		Date Prepared:	10/28/2024
Item/Project Title:	Pump Station Ger	nerator Replaceme	nt	
Proposed Article Wor	ding:			
provide the sum of	\$ 37,800 , or any ot	ther amount, for t	he purpose of re	ilable funds, borrow, or otherwise eplacing a pump station generator, otes in relation thereto.
Detailed Description	for Background Mate	erials: (Provide a full	description of the iten	n or service. <u>Use attachments as needed</u> .)
45 kW 3-Phase Gene	rator:			\$25,000
Electrical Contractor				\$6,000
Site Work/Demolitio	n:			\$5,000
Contingency 5%:				\$1,800
Total:				\$37,800

Scoping Questions		Yes	No
Please elaborate in the comr	nents box at bottom of the page		
Do you have a written estim If yes, attach the esti	ate or proposal for the scope of wo mate	rk? 🗵	
s there a lease option for th	is expense?		\boxtimes
Will this item or project repl	ace a capital asset?	\boxtimes	
Will this create ongoing cost	s or savings?		\boxtimes
Will this leverage grant or ot	her external funding?		\boxtimes
Is this request identified on t	the Capital Improvement Plan?	\boxtimes	
Describe how the project/ p	urchase will be managed		
Who will manage procuremer	nt and execution of the project? Will ex	ternal resources be requi	red for design,
engineering, procurement, or	construction oversight?		
The CWF will oversee procure	ment and execution of the project.		
-	Town makes this investment now?		
·	uation of the nine (9) pump station gen	•	-
• •	n in Lake Pleasant and is circa 1981. Th nade semi-permanent due to a previo	•	- ,
portuble generator that was h	nade seriii permanent ade to a previol	asiy ianea stationary gene	interior.
parts on the 1981 generators	ne service technician, PowerGen Techi have become obsolete and cannot be able generators at all wastewater pum e during power outages.	replaced if the generator	s fail. DEP/MGL also
Relative Priority: Your asses	ssment of the how important this is	to the Town at the pre	sent time.
Critical Importance	Highly Important Mo	derately Important	
	0	О	
Comments and additional in	nformation:		
Request to fund through retai	ned earnings.		
- 15-22-22 15-15-15-15-16-16-16-16-16-16-16-16-16-16-16-16-16-			

Supporting Photos/Diagrams/Documents

Quotation

Powerhouse Diesel Generators

1616 JAMES P RODGERS DR VALDOSTA, GA 31601-7094 PHONE: (229)-671-9171 WWW.PDGPOWER.COM



Estimate

Order#	Date	
S15439	10/02/2024	

POWERGEN TECHNOLOGIES
44 Hopyard Rd
Stafford Springs, CT 06076

Customer: POWERGEN TECHNOLOGIES

Ship To:
POWERGEN TECHNOLOGIES
44 Hopyard Rd
Stafford Springs, CT 06076

Contact: POWERGEN TECHNOLOGIES

Sales Rep	Carrier	Ship Service	Estimated Tax
Elias Serrano	DELIVER		\$ 0.00

Description	Unit Price	Qty Ordered	Total Price
45 kW 3 Phase open frame generator - EPA certified for emergency	\$14,489.00	1 ea	\$ 14,489.00
STANDBY USE			

PERKINS 1104D-44TG1 Turbo Diesel Engine

- Remote Oil Drain Valve Installed with Hose
- CK-4 Spec 15-40 Diesel Oil & 50/50 Engine Coolant Included
- 1000 Amp Marine Grade Starting Battery
- Residential Grade Aluminized Automotive Muffler
- Assembled, Wired, & Mounted on a Steel Skid with Anti-Vibration Motor Mounts
- Low Oil Pressure & High Coolant Temp Shutdowns are Standard

THREE PHASE - 208 VOLT	\$0.00	1 ea	\$ 0.00
MAIN DISCONNECT BREAKER - 150 Amp 3 Pole 208 Volt NEMA 1	\$935.50	1 ea	\$ 935.50
ComAP AMF5	\$495.00	1 ea	\$ 495.00
REMOTE EMERGENCY STOP BUTTON	\$39.99	1 ea	\$ 39.99
COLD WEATHER PACKAGE 12V 750W - STATIONARY Includes: •ComAp 12V Battery InteliCharger •Block Heater 750W •20A GFCI Receptacle w/ Nema 3R Cover	\$648.00	1 ea	\$ 648.00
ENCLOSURE - LEVEL 1 ACOUSTIC	\$3,489.00	1 ea	\$ 3,489.00

- Industrial Grade Powder Coated Aluminum Enclosure with Steel Skid
- UL-94, MVSS 302, & HF-1 Certified, Foil Backed, Level 1 Sound Attenuating Acoustic Foam Installed.
- Large Access Doors with Locks for Security and Ease of Maintenance
- All Stainless Steel Latches and Hardware
- Includes Locking Door for Key Start or Auto Controller

A2

1616 JAMES P RODGERS DR VALDOSTA, GA 31601-7094 PHONE: (229)-671-9171 WWW.PDGPOWER.COM



Estimate

Order#	Date
S15439	10/02/2024

Description RODENT GUARD PACKAGE • Safeguards Generator from Entry and Damage by Rodents, Snakes, and Birds • Protects Intake & Exhaust Ports, Fork Pockets, and Any Points of Entry in the Enclosure or Skid	Unit Price \$219.00	Qty Ordered 1 ea	Total Price \$ 219.00
FUEL TANK - 50 GALLON DOUBLE WALL Powder Coated 11 Gauge Steel Reinforced with Internal Structural Supports & Baffles Forged UL Compliant Fittings	\$2,389.00	1 ea	\$ 2,389.00
ESTIMATED OUTBOUND FREIGHT CHARGES - HOTSHOT Shipping Charges are ESTIMATED at Time of Quotation and May be Higher at Time of Shipping. ACTUAL SHIPPING CHARGE will be Finalized at Time of Shipment. Any Difference will be added to Final Invoice. THIS IS A HOTSHOT FREIGHT DELIVERY * YOU MUST HAVE PROPER EQUIPMENT TO SAFELY REMOVE THE GENERATOR FROM THE DELIVERY VEHICLE OR TRAILER AT THE TIME OF ARRIVAL. DEDICATED HOT SHOT DELIVERY	\$1,395.00	1 ea	\$ 1,395.00
PERKINS ENGINE WARRANTY - STANDBY PERKINS STANDBY ENGINE WARRANTY 3 YEARS UP TO 500 HOURS PER YEAR CONTACT SALES CONSULTANT FOR MORE DETAILS	\$0.00	1 ea	\$ 0.00
PDG EXTRANEOUS COMPONENTS WARRANTY PDG Industrial - Extraneous Components Warranty PDG warrants the following components for a period of one year from date of delivery to original owner: Enclosures, Fuel Tanks, Meters & Gauges, Timers, Block Heaters, and Auto-Controllers. This warranty is handled by Powerhouse Diesel Generators	\$0.00	1 hr	\$ 0.00

1616 JAMES P RODGERS DR VALDOSTA, GA 31601-7094 PHONE: (229)-671-9171 WWW.PDGPOWER.COM



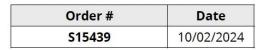
Estimate

Order#	Date
S15439	10/02/2024

OTACL #	Juce				
S15439	10/02/2024				
Description			Unit Price	Qty Ordered	Total Price
LEAD TIME ESTIMATES ARE C APPROXIMATE SHIP DATE. LE TIME. LEAD TIME STARTS UPO	AD TIMES DO NO ON RECEIPT OF P guaranteed, and ircumstances bey te assessment of s-	T INCLUDE TRANSIT/DELIVERY AYMENT. Are sometimes at the mercy of ond our control. Feel free to production time.	\$0.00	1 hr	\$ 0.00
past months, weeks, and day does occasionally have an im	rs. Even though th npact on our supp	of the coronavirus situation in the ne outbreak is abating, it can and ly chains and shipping. PDG, Inc, he estimated completion times	\$0.00	1 hr	\$ 0.00
PDG, Inc will continue to com shippers, to closely monitor a changes that may impact the Please understand that prob shipping related to COVID an	all developments delivery of our p lems and delays	and keep you informed of any roducts. vith supply, production, or			
Thank you for your patience The Staff of Powerhouse Die	, ,				
TERMS:	begin processing	your order. Balance is Due 7	\$0.00	1 ea	\$ 0.00

1616 JAMES P RODGERS DR VALDOSTA, GA 31601-7094 PHONE: (229)-671-9171 WWW.PDGPOWER.COM







Subtotal:	\$24,099.49
AVATAX:	\$0.00
Total:	\$24,099.49
Paid:	\$0.00
Balance Due:	\$24 099 49



Budget Year **FY 26**

This form is intended for use with capital article submissions ≥ \$25,000 with a lifespan of 5+ years. For major building projects, please consult the Town Administrator.

Please complete this form in its entirety! Initial Submission due 10/31/2024.

	Check Here if this an exp	pedited request for Winter 2024	4 Special Tow	n Meeting		
Department:	CWF	Submitted by:	Chelsey L	ittle		
Item/Project Cost:	\$104,000	Date Prepared:	10/28/20	24		
Item/Project Title: Thickened Sludge Pumps Replacement x2						
Proposed Article Wor	ding:					
provide the sum of	\$104,000 , or any other	oropriate, transfer from ava amount, for the purpose of related costs, or pass any vo	replacing tv	vo (2) thickened	d sludge	
,		(Provide a full description of the iter			ded.)	
	luges, pressure switches, s	tart-up/training, transportatio		.,,		
Stainless Steel Piping	and Main Headers Replac	ement:				
	Updated Controls:					
Total:				\$104,000		
Scoping Questions <i>Please elaborate in t</i>	he comments box at bot	tom of the page	Yes	No		
Do you have a writte	en estimate or proposal the estimate	for the scope of work?	\boxtimes			
Is there a lease optic	on for this expense?			\boxtimes		

Will this item or project replace a capital asset?	\boxtimes			
Will this create ongoing costs or savings?		\boxtimes		
Will this leverage grant or other external funding?		\boxtimes		
Is this request identified on the Capital Improvement Plan?	\boxtimes			
Describe how the project/ purchase will be managed				
Who will manage procurement and execution of the project? Will external engineering, procurement, or construction oversight?	l resources be req	uired for design,		
The CWF will oversee procurement and execution of the project.				
Why is it essential that the Town makes this investment now?				
The CWF has historically utilized three (3) thickened sludge pumps to pump sludge from the gravity thickener and two (2) sludge holding tanks to feed liquid sludge to the press for dewatering, and/or feed liquid sludge to a 9,000-gallon tanker for disposal. Since the loss of the papermills, the facility no longer needs to utilize all three (3) pumps, needing only the use of two (2). (Redundancy is required as per MGL) The old pumps are piston style pumps circa 1981 (drives from 2010) and are an outdated and are an extremely dangerous pump style, having exterior rotating parts which pose a death or serious injury safety risk to staff. (Mentioned in a recent Dept of Labor Standards/OSHA inspection February 2024.) This old-style pump also requires higher level of maintenance requirements as opposed to several other pump styles due to its wear parts. The typical life expectancy of a piston pump is 10-20 years, depending on how well it has been maintained and how many hours in operation.				
The update will replace two (2) of the pumps with an appropriate pump style, replace some of the deteriorated piping on both the inlet and discharge sides of the pump with stainless steel, and update controls. CWF staff will procure the equipment and perform the demolition and installation of the pumps in-house. The third pump will be completely removed from service and disposed of as per Town Policy/MGL.				
If the pumps are not replaced, they face imminent failure, which would problem sludge/solids, which will in turn cause a significant non-compliance with problem.	•	_		

Relative Priority: Your assessment of the how important this is to the Town at the present time.

Critical Importance

Highly Important

Moderately Important



0

0

Comments and additional information:

Request to fund through retained earnings.

Supporting Photos/Diagrams/Documents

Current Piston Pumps







The World Leader in Free-Disc Pumping Technology



To: Town of Montague, MA	Date: 09/05/2024 Quote No: 24137 Budget		
	Project: Montague, MA WWTP		
	Quoted by: Preston C	ampbell	

Qty	Description	Unit Price	Total Price
	Application: Rotary Press Feed Pump, ~2 - 5% solids		
	Duty: 20 – 100GPM @ 10 – 15ft TDH		
	Suction: Flooded on 6" line, approximately 200ft long		
	Discharge: 6" line, 20ft vertical static		
2	6" Model 6DDSX76CNU-MK2 Penn Valley Double Disc Pump™ unit: • 6" ASA/ANSI 150# flanged suction and discharge connections • Cast iron housing and neoprene elastomers • Maintain-in-place hinged housing design for ease of maintenance • Two-piece swan neck design with full port rigid clack valve • 7.5HP, 1160RPM 230-460/3/60 Severe duty, inverter ready motor • 140RPM Nominal pump speed achieved with V-belt and pulley drive • Suction and Discharge pulsation dampeners • 304SS Welded base with OSHA approved guards and covers • Pump and dampeners coated with industrial primer and topcoat • Per drawing PVD769 Side motor mount	\$34,950.00	\$69,900.00
2	Model PVP420V Suction vacuum sensor and gauge assembly consisting of: 1" NPT SS316 sensor with EPDM sleeve and 4" (30" Hg-30psi) SS gauge. Mounts to top of dampener to provide indication of line pressure.	\$760.00	\$1,520.00
2	Model PVP420PS Discharge pressure switch assembly consisting of: 1" NPT SS316 sensor w/ EPDM sleeve, NEMA 4X adjustable switch and 4" (0-100psi) SS gauge. Mounts to top of dampener to protect against over pressurization. (Must be wired to pump controls.)		\$2,810.00
2	Days of start-up and training services (one-trip), provided by NE3	\$1,300.00	\$2,600.00
1	Estimated transport to site. Estimated weight of shipment is 4,000lbs.	\$725.00	\$725.00
. :	Optional:		
1	Set of recommended spare parts to include: two (2) discs, two (2) trunnions, one (1) clack valve and one (1) set of gaskets	\$3,490,00	\$3,490.00

Commercial Information:

- 1. Shipment is 12 14 weeks after receipt of purchase order or approved submittals.
- 2. Submittals, if required, are 2-3 weeks after receipt of purchase order.
- 3. Freight terms are F.O.B. Factory, Warrington, PA with freight allowed to jobsite.
- 4. Terms are Net 30 days after receipt of invoice.
- 5. Quotation is valid for 60 days from date of issue.
- 6. Warranty is two (2) years from date of shipment for manufacturer's defects in materials and workmanship.

The following items have not been included:

- Installation
- · Foundations, anchor bolts, grouting and foundation design
- · Motor starters, Variable Frequency Drives (VFD's) or Controls



Budget Year **FY 26**

This form is intended for use with capital article submissions ≥ \$25,000 with a lifespan of 5+ years. For major building projects, please consult the Town Administrator.

Please complete this form in its entirety! Initial Submission due 10/31/2024.

	Check Here if this an expedit	ed request for Winter 2024	Special Town Meeting
Department:	DPW / Selectboard	Submitted by:	Chris Nolan-Zeller, Asst. Town Admin.
Item/Project Cost:	\$ 3,000,000	Date Prepared:	10/31/2024
Item/Project Title:	Phase 2 – Sewer Collection System Rehabilitation		
roposed Article Wor	ding:		
provide the sum of identified in the To	\$3,000,000, or any other an	nount, for the purpose on (LTCP), updated in 2022	lable funds, borrow, or otherwise f Priority 1 and Priority 2 work 2, including any and all incidental

Detailed Description for Background Materials: (*Provide a full description of the item or service. Use attachments as needed.*)

As part of the Town's combined sewer overflow (CSO) LTCP update, the Town contracted with the engineering firm Wright-Pierce to develop short and long-term implementation plans for improving the maintenance, operation, and condition of its wastewater collection system. The requested funding is needed to complete the work that has been designated as either Priority 1 or Priority 2 in need of completion. Completing this work within a 10-year period is a condition of the Town's National Pollutant Discharge Elimination System (NPDES) permit, meaning that implementing this rehabilitation is the Town's legal obligation.

This work includes the rehabilitation of 15 pipes (4,867 linear ft.) in Turners Falls, as well as 22 pipes (4,592 linear ft.) in Millers Falls, in addition to the rehabilitation of 74 manholes in Millers Falls. Phase 2 is a continuation of the ongoing Phase 1, which is expected to be completed by Spring 2025, and includes the rehabilitation of 53 manholes. Phase 1 has been funded through a \$500,000 Rural / Small Town Development Grant from the state.

Scoping Questions Please elaborate in the comment	s box at bottom of the page	Yes	No	
Do you have a written estimate o		vork?		
Is there a lease option for this ex	pense?		\boxtimes	
Will this item or project replace a	capital asset?		\boxtimes	
Will this create ongoing costs or	savings?	\boxtimes		
Will this leverage grant or other of	external funding?		\boxtimes	
Is this request identified on the C	apital Improvement Plan?	\boxtimes		
Describe how the project/ purch	ase will be managed			
engineering, procurement, or construction oversight? The Town will contract for engineering services. Construction to be procured through bidding process in accordance with MGL c.30 §39M. Initial procurement to be managed by Assistant Town Administrator, with ongoing oversight of contractor to be handled by Public Works Superintendent.				
Why is it essential that the Towr Make your argument for why this projute consequences of inaction.			If necessary, describe the	
The Town is obligated under its NPDES permit to implement the repairs identified in the LTCP. The work identified by the project engineer as being Priority 1 or 2 is essential to the continued functionality of the Town's wastewater collection system, of which much of the current infrastructure is 75-100 years old. Currently, several areas of excessive inflow and infiltration lead to undue strain on operations by increasing the overall volume of water in the system. Especially during heavy rainfall events, this also increases the likelihood of CSO discharges, which are an environmental and health hazard, and can further expose the Town to liability for noncompliance with its NPDES permit.				
Relative Priority: Your assessme Critical Importance OX	·	is to the Town at the pre loderately Important O	sent time.	

Comments and additional information:						



October 7, 2024

Mr. Walter Ramsey, Town Administrator Town of Montague 1 Avenue A Montague, MA 01376

SUBJECT: Town of Montague, MA – Proposal for Professional Engineering Services

Phase 2 Sewer and Manhole Rehabilitation Project

Dear Walter,

Wright-Pierce has previously conducted two studies of the sewer collection system and provided the following two deliverables to the Town of Montague to summarize the field investigation work and to provide rehabilitation recommendations with a planning level opinion of probable construction cost. The rehabilitation recommendations of sewer manholes and sewer pipes address structural defects and potential sources of infiltration and inflow (I/I) to the Town's collection system.

- 1. Turners Falls, Lake Pleasant, and Montague Center Wastewater Collection Study, dated March 3, 2023
- 2. Millers Falls Wastewater Collection System Study, dated April 14, 2023

The Town of Montague has requested that Wright-Pierce submit a proposed scope and fee to provide design, bidding, and construction administration services to implement the following Priority 1 and Priority 2 recommended rehabilitation in both Turners Falls and Millers Falls. The 51 Priority 1 manholes identified in Turner Falls areas are not included in this Project because they are separately being rehabilitated under the Phase 1 Sewer and Manhole Rehabilitation Project going out to bid in Fall 2024/Winter 2025 and constructed in Spring 2025.

Location	Priority	# of Manholes	# of Pipes	LF of Pipe
Turner Falls	1	51*	11	3,613
Turner Falls	2	0	4	1,254
Millers Falls	1	42	18	3,996
Millers Falls	2	32	4	596
Total		74	37	9,459

^{*}Not included in this project.

10/7/2024 Mr. Walter Ramsey, Town Administrator Page 2 of 5

The Town of Montague has also requested Wright-Pierce to update the planning level opinion of probable construction cost provided in the two deliverables indicated above separate from this proposal. Our proposed scope and budget for engineering services are presented below.

Proposed Scope of Work

Task 1 – Design

Scope of work under this task will include:

- 1. Wright-Pierce will perform project administration tasks including communicating with the Town, tracking budget and schedule, and preparing and submitting monthly invoices.
- 2. Wright-Pierce will prepare for and attend an in-person kick-off meeting, with the Town's and Wright-Pierce's project team members. At the kick-off meeting, Wright-Pierce will establish schedules for deliverables and communication protocols.
- 3. Wright-Pierce will develop a 75 percent submittal that includes bid document/specifications with GIS-based drawings and an opinion of probable construction cost. The front-end specifications will be based on EJCDC 2018 edition. Technical specifications will be prepared using the CSI 16 Division format. The location of the manholes will be shown on GIS-based 11"x17" figures.
 - a. The Bid/Contract documents will be prepared in accordance with MGL Chapter 30, 39M governing public works projects in the Commonwealth of Massachusetts.
 - b. Wright-Pierce will submit an electronic copy (PDF) of the bid document/specifications to the Town and meet with the Town to discuss review comments.
- 4. Wright-Pierce will address the Town's comments on the 75 percent bid document/specifications within 15 business days of receiving the Town's comments. Wright-Pierce will prepare and submit two hard copies and an electronic version of the 100 percent bid documents/specifications and an opinion of probable construction cost.

Task 2 – Bidding Assistance

Scope of work under this task will include:

- 1. Coordinate bidding through the Wright-Pierce bidding platform. The Town shall be responsible for all advertising costs.
- 2. Respond to bidders' questions.
- 3. Prepare and distribute up to two addenda to the bid documents.
- 4. Attend in-person bid opening for the construction contract.
- 5. Review all bids and prepare bid tabulation.
- 6. Review the qualifications of the apparent low bidder(s) and compliance with other contract requirements. Report on the results of the reviews and issue a bid summary to the Town.
- 7. The length of the Bidding Phase is assumed to be approximately 60 days. The length of the Bid Period from Advertisement to Bid Opening is assumed to be approximately 21 days.



Task 3 - Construction Administration

Scope of work under this task will include:

- 1. Project Administration and Management
 - a. Perform project administration and management tasks including communications with Town, tracking budget and schedule, and preparing and submitting monthly invoices.
- 2. Prepare for and attend up to three monthly progress meetings and one preconstruction meeting, with Town, Contractor, and Wright-Pierce's project team members. Progress meetings will include a report on budget, schedule updates, and review of technical aspects. Prepare and distribute minutes of the meetings.
- 3. Consult with and advise Town and act as Town's representative as provided in the Standard General Conditions and Supplementary Conditions of the Construction Contract. The extent and limitations of the duties, responsibilities, and authority of engineer as assigned in said Standard General Conditions shall not be modified, except as engineer may otherwise agree to in writing. The Town's instructions to Contractor will be issued through Wright-Pierce, who shall have authority to act on behalf of Town in dealings with Contractor to the extent provided in this Agreement and said Standard General and Supplementary Conditions except as otherwise provided in writing.
- 4. Review shop drawings, diagrams, illustrations, schedules, the results of tests and inspections, which the Contractor is required to submit to demonstrate conformance with the construction Contract Documents. Reject any materials, or other items which do not meet minimum requirements. Review warranties and manufacturers' information for products and materials supplied for the project.
- 5. Review Town's and/or Contractor's requests for materials substitution for items specified in the Contract Documents.
- 6. Make visits to the site at appropriate intervals to observe the progress of the construction work. Prepare reports of findings, as necessary.
- 7. Review field test reports, including those submitted by the Contractor's Independent Testing Laboratory. Attend field tests, as necessary.
- 8. Review Contractors' draft and final requests for payment and estimate amounts to be paid. Process the final request for payment. It is assumed that four payment requests will be processed for this project.
- 9. Review and negotiate changes in the scope of work, price, and/or completion time. Prepare change orders which may become necessary due to factors discovered during the progress of the work. Review and provide clarifications and interpretations of the Contract Documents.
- 10. Monitor work progress for conformance with established schedules and budget.
- 11. Prepare punch list of uncompleted or unacceptable work.
- 12. Conduct a Substantial Completion inspection and prepare a Certificate of Substantial Completion.
- 13. Provide an electronic copy in PDF format showing those deviations from the original drawings during the Construction Phase based on marked-up prints, figures, and other data furnished by the Contractor to Wright-Pierce and that Wright-Pierce considers significant.



Task 4 – Resident Project Representative

Scope of work under this task will include:

1. Coordinate and provide a Resident Project Representative (RPR) to represent the Town and Wright-Pierce in the field during construction. The assigned RPR will have an active NASSCO Inspector Training Certification Program (ITCP) Cured-in-Place-Pipe (CIPP) certification in observing progress and quality of the Work. Wright-Pierce anticipates the contractor will be onsite for 90 calendar days (13 weeks) to perform the work. Wright-Pierce shall provide a full-time RPR for up to 585 hours based on 9 hours per day for 65 workdays.

Items Not Included in Proposed Scope of Services and Assumptions

- 1. A pre-bid conference will not be held.
- 2. All materials testing specified will be included in the General Contractor's bid.
- 3. Requirements for meeting M/WBE goals for engineering services.
- 4. Permits are not anticipated due to the no-dig nature of the work. It is also assumed that the Town will obtain an exemption from its Conservation Commission for a Notice-of-Intent (NOI) because this work is sewer maintenance related and mostly trenchless.
- 5. Development of permit applications and payment of applicable fees.
- 6. Topographical and utility location survey; wetland delineation; and subsurface investigation (i.e., borings, probes, etc.) of the project area.
- 7. Post-construction services.
- 8. The design will be based on the NASSCO MACP and PACP coding from the field investigation work in 2022. No additional inspections will be performed.
- 9. Unless otherwise indicated, construction phase services assume a construction timeline of 120 calendar days (17 weeks) from the Notice to Proceed to substantial completion and another 30 calendar days (4 weeks) to final completion.

Proposed Fee

We propose to provide the scope of services described above based on a time charge basis with a not-to-exceed fee of \$257,900, including labor and reimbursable expenses, for Tasks 1 through 4. Should additional services be required, we will not exceed this fee without written authorization.



10/7/2024 Mr. Walter Ramsey, Town Administrator Page 5 of 5

Task	Labor	Reimbursable Expenses	Fee
Task 1 – Design	\$69,600	\$700	\$70,300
Task 2 – Bidding	\$13,900	\$600	\$14,500
Task 3 – Construction Administration	\$84,500	\$1,100	\$85,600
Task 4 – Resident Project Representative	\$75,800	\$11,700	\$87,500
Total	\$243,800	\$14,100	\$257,900

If the proposed scope and fee is acceptable, Wright-Pierce will prepare a Task Order under our existing on-call Agreement. We appreciate being considered for this assignment and look forward to working with you and your staff.

Sincerely,

WRIGHT-PIERCE

Lisa M. Muscanell-DePaola, PE

Y. M. Muxanell-Delada

Project Manager

lisa.muscanell@wright-pierce.com

Christopher N. Pierce, PE Senior Vice President

chris.pierce@wright-pierce.com



Chris Nolan

From: Lisa Muscanell lisa.muscanell@wright-pierce.com>

Sent: Wednesday, October 9, 2024 3:48 PM

To: Walter Ramsey

Cc: Chris Nolan; Michael Stein

Subject: RE: Phase 2 Sewer and Mahole Rehabilitation

Attachments: Phase2SewerRehab_DesignCA_ProposalLetter_v2.pdf

Follow Up Flag: Follow up Flag Status: Flagged

Walter,

Attached is the scope and fee proposal letter that you requested by mid-October to assist with budgeting and planning for the Annual Town Meeting in May 2025.

Regards,

Lisa

Lisa M. Muscanell-DePaola, PE (she/her)

Wright-Pierce | Lead Project Engineer | Project Manager direct 860.852.1912 | office 860.343.8297



From: Lisa Muscanell

Sent: Tuesday, September 17, 2024 6:15 PM

To: Walter Ramsey < Walter R@montague-ma.gov>
Cc: Chris Nolan < Chris N@montague-ma.gov>
Subject: Phase 2 Sewer and Mahole Rehabilitation

Walter,

We are having our Vice President QAQC the scope and fee proposal letter for our technical services, however, I wanted to let you know that our budgetary, planning level (10% design) opinion of probable construction cost (including contingencies, technical services (design, construction, inspection etc.), construction contract etc.) is \$2.5Million.

This uses a 25% construction contingency right now and 30% engineering and administrative fees.

If you think this could still pass at \$3M, you may want to use that number especially if this will take a few years to get out to bid and constructed.

Lisa

Lisa M. Muscanell-DePaola, PE (she/her)

Wright-Pierce | Lead Project Engineer | Project Manager direct 860.852.1912 | office 860.343.8297

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Budget Year **FY 26**

This form is intended for use with capital article submissions ≥ \$25,000 with a lifespan of 5+ years. For major building projects, please consult the Town Administrator.

Please complete this form in its entirety! Initial Submission due 10/31/2024.

	Check Here if this an expedited requ	est for Winter 2024 S	Special Town Meeting
Department:	DPW	Submitted by:	Sam Urkiel
Item/Project Cost:	\$365,000	Date Prepared:	October 31, 2024
Item/Project Title:	10 Wheel Dump Truck		
Proposed Article Word	ing:		
provide the sum of \$	vill vote to raise and appropriate, t \$365,000 or any other amount, for including any and all incidental and	the purpose of a 1	.0 wheeled dump truck with wing
Detailed Description fo	or Background Materials: (Provide a ful	l description of the item c	or service. <u>Use attachments as needed</u> .)
The truck will be used materials to and from		e including clearing w	vinter roads and hauling construction

_		
\boxtimes		
	\boxtimes	
\boxtimes		
•	_	
-	oresent time.	
0		
	nd spreader. The treplacement require Town at the pately Important	nd spreader. The truck has underg replacement request follows the content of the truck has undergular to the truck



Budget Year **FY 26**

This form is intended for use with capital article submissions ≥ \$25,000 with a lifespan of 5+ years. For major building projects, please consult the Town Administrator.

Please complete this form in its entirety! Initial Submission due 10/31/2024.

	Check Here if this an expedited requ	est for Winter 2024	Special Town Meeting
Department:	DPW	Submitted by:	Sam Urkiel
Item/Project Cost:	\$325,000	Date Prepared:	October 31, 2024
Item/Project Title:	Large Dump Truck		
Proposed Article Word	ing:		
provide the sum of \$\foatincluding any and al	vill vote to raise and appropriate, to 325,000 or any other amount, for lincidental and related costs, or p	r the purpose of a l ass any vote or vot	large dump truck with spreader, es in relation thereto.
			winter roads and hauling construction

Scoping Questions Yes No

Please elaborate in the comm	nents box at bottom of the pag	2		
Do you have a written estimate of the estimate	ate or proposal for the scope of mate	work?		
Is there a lease option for the	s expense?	\boxtimes		
Will this item or project repla	ace a capital asset?	\boxtimes		
Will this create ongoing cost:	s or savings?	\boxtimes		
Will this leverage grant or ot	her external funding?		\boxtimes	
Is this request identified on t	he Capital Improvement Plan?	\boxtimes		
Describe how the project/ p	urchase will be managed			
Purchased by DPW, no extern	al oversight needed.			
Why is it essential that the 1	own makes this investment no	ow?		
Purchase will replace an aging improvement plan of 20 years	2002 International 4900 with sprofor a large dump truck.	eader. This replacemer	nt request follows t	he capital
Relative Priority: Your asses	sment of the how important th	is is to the Town at t	he present time.	
Critical Importance	Highly Important	Moderately Importan	t	
0	0	0		
Comments and additional in	formation:			



Budget Year **FY 26**

This form is intended for use with capital article submissions ≥ \$25,000 with a lifespan of 5+ years. For major building projects, please consult the Town Administrator.

Please complete this form in its entirety! Initial Submission due 10/31/2024.

	Check Here if this an expedited requ	est for Winter 2024 S	Special Town Meeting
Department:	DPW	Submitted by:	Sam Urkiel
Item/Project Cost:	\$70,000	Date Prepared:	October 31, 2024
Item/Project Title:	Sewer CCTV Van		
Proposed Article Word	ing:		
provide the sum of \$	vill vote to raise and appropriate, to 70,000 or any other amount, for to ated costs, or pass any vote or vote.	the purpose of a Se	ewer CCTV Van, including any and
Detailed Description fo	or Background Materials: (Provide a ful	l description of the item c	or service. <u>Use attachments as needed</u> .)
The Van will be used for inspect the system for	·	infrastructure aroun	d town with CCTV equipment used to

Scoping Questions Yes No

Please elaborate in the comm	ents box at bottom of the page			
Do you have a written estima If yes, attach the estin	te or proposal for the scope of v	work?		
Is there a lease option for this	s expense?	\boxtimes		
Will this item or project repla	ce a capital asset?	\boxtimes		
Will this create ongoing costs	or savings?	\boxtimes		
Will this leverage grant or oth	ner external funding?		\boxtimes	
Is this request identified on th	ne Capital Improvement Plan?	\boxtimes		
Describe how the project/ pu	ırchase will be managed			
Purchased by DPW, no externa	l oversight needed.			
Why is it essential that the To	own makes this investment no	w?		i
Purchase will replace a 2001 Fo	ord E450. This replacement reques	t follows the capital ir	mprovement plan	of 12 years for
Relative Priority: Your assess	sment of the how important this	s is to the Town at t	he present time	
Critical Importance	Highly Important	Moderately Importan	t	
0	0	0		
Comments and additional inf	formation:			



Budget Year **FY 26**

This form is intended for use with capital article submissions ≥ \$25,000 with a lifespan of 5+ years. For major building projects, please consult the Town Administrator.

Please complete this form in its entirety! Initial Submission due 10/31/2024.

	Check Here if this an expedited requ	est for Winter 2024	Special Town Meeting
Department:	DPW	Submitted by:	Sam Urkiel
Item/Project Cost:	\$65,000	Date Prepared:	October 31, 2024
Item/Project Title:	Ford F-150 Pickup		
Proposed Article Word	ling:		
provide the sum of sall incidental and re	will vote to raise and appropriate, significantly for state of the costs, or pass any vote or volume or Background Materials: (Provide a further state)	the purpose of a Fo	ord F-150 Pickup, including any and eto.
	for transportation to and from town		ning supplies and equipment. Will also

Scoping Questions Yes No

Please elaborate in the comm	nents box at bottom of the page			
Do you have a written estimate of the estimate	ate or proposal for the scope of wor	k? 🗵		
Is there a lease option for th	is expense?	\boxtimes		
Will this item or project repla	ace a capital asset?	\boxtimes		
Will this create ongoing cost	s or savings?	\boxtimes		
Will this leverage grant or ot	her external funding?		\boxtimes	
Is this request identified on t	the Capital Improvement Plan?	\boxtimes		
Describe how the project/ p	urchase will be managed			
Purchased by DPW, no extern	al oversight needed.			
Why is it essential that the	Town makes this investment now?			······································
Purchase will replace an aging years for a truck.	g 2007 F-150 pickup. This replacement re	equest follows the ca	pital improveme	nt plan of 12
Relative Priority: Your asses	ssment of the how important this is t	to the Town at the p	oresent time.	
Critical Importance	Highly Important Mod	erately Important		
0	0	0		
Comments and additional in	nformation:			



Budget Year **FY 26**

This form is intended for use with capital article submissions ≥ \$25,000 with a lifespan of 5+ years. For major building projects, please consult the Town Administrator.

Please complete this form in its entirety! Initial Submission due 10/31/2024.

Check Here if this an expedited requ	uest for Winter 2024	Special Town Meeting
DPW	Submitted by:	Sam Urkiel
\$60,000	Date Prepared:	October 31, 2024
Oakman St and Country Club Ln Sto	orm Drain Washout F	Repair Engineering
ding:		
\$60,000 or any other amount, for	the purpose of Eng	gineering a method of repair to
or Background Materials: (Provide a fu	II description of the item	or service. <u>Use attachments as needed</u> .)
	\$60,000 Oakman St and Country Club Ln Stording: will vote to raise and appropriate, section of the country Club Ln, tes in relation thereto.	\$60,000 Date Prepared: Oakman St and Country Club Ln Storm Drain Washout Finding: will vote to raise and appropriate, transfer from avail \$60,000 or any other amount, for the purpose of Engin Oakman St and Country Club Ln, including any and

Scoping Questions Please elaborate in the comm	nents hav at hattam of the	naae	Yes	No	
Do you have a written estima If yes, attach the estir	ate or proposal for the scop		\boxtimes		
Is there a lease option for thi				\boxtimes	
Will this item or project repla	ice a capital asset?			\boxtimes	
Will this create ongoing costs	s or savings?			\boxtimes	
Will this leverage grant or otl	ner external funding?			\boxtimes	
Is this request identified on t	he Capital Improvement Pla	an?		\boxtimes	
Describe how the project/ p	urchase will be managed				
Engineering work to be done b	y others with anticipated rep	airs in house by DP	W.		
Why is it essential that the T	own makes this investmen	it now?			
If delayed the area of repair co to reduce the amount of sedin	_		amage or o	closure. Efforts shou	ıld be made
Relative Priority: Your asses	sment of the how importar	nt this is to the To	wn at the	present time.	
Critical Importance	Highly Important	Moderately In	nportant		
0	0	0			
Comments and additional in	formation:				

Stantec Consulting Services Inc. 5 Dartmouth Drive Suite 200, Auburn NH 03032-3984



January 15, 2024 File: 195189006

Attention: Mr. Walter Ramsey, Town Assistant Administrator Turners Falls Town Office 1 Avenue A Turners Falls, MA 01376

Dear Ramsey,

Reference: Oakman Street and Country Club Lane Storm Drain Outfall Repairs

Per your request, we are submitting for your review and approval a proposed scope and fee for to perform preliminary engineering services for the storm drain outfall repair at the corner of Oakman Street and Country Club Lane and for the slope failure at the storm drain outlet to the west of 118 Country Club Lane. A map of the approximate outfall locations is provided as Attachment 'A'. Based on our review of the current outfall and slope failure(s) conditions and our understanding that the Town anticipates performing the repairs for these outfalls, we have developed a preliminary scope of engineering services for the design of repairs to these outfalls to include the following:

Preliminary Engineering:

- Coordinate with existing property owners to obtain access for preliminary engineering.
- Perform wetlands delineation, wetlands flagging, natural resource assessment and develop an associated wetlands and natural resources report in anticipation of permitting for the project limits described in Attachment 'A'.
- Perform a topographic and physical conditions survey for the project limits described in Attachment 'A'. It should be noted that the limits of wetland delineation and survey extend for the entire limits from the golf course and between the two slope failure locations to determine a feasible point of access to minimize existing clearing, disturbance and associated necessary grading for access to perform the two outfall repairs.
- Perform 1-boring to a depth of 55-feet (or refusal) and 1-boring to a depth of 25-feet (or refusal)
 (assumes two days of borings) to perform a subsurface assessment of the existing soils in proximity
 to the Oakman Street outfall failure.
- Collect three (3) 5-gallon soil samples at the locations of the existing slope and outfall failures and perform sieve analysis testing on the samples in conformance with ASTM C136.
- Summarize the results of the subsurface investigation, including the borings performed in the field and soil sample analysis in a Geotechnical memorandum summary for the project for the project

January 15, 2024 Mr. Walter Ramsey, Page 2 of 3

Reference: Oakman Street and Country Club Lane Storm Drain Outfall Repairs

site(s) to be utilized as the basis of design for the design of the slope reinforcement and scout abatement measures.

- Perform an inspection of the existing drainage structures (two catch basins) and culverts (two culverts) to confirm whether rehabilitation of the existing drainage infrastructure is required as part of the project.
- Develop and analyze a stormwater model for the two outfalls to determine the required culvert size(s), stormwater outfall conditions and design scour abatement measures for the culvert outfalls.
- Perform scour abatement analysis in accordance with the application HEC-RAS standards in conformance with MADEP and MassDOT standards and requirements.
- Create a Hydraulic and Hydrologic and Scour Abatement report in anticipation of the required MADEP wetlands permitting for the proposed improvements.

Preliminary Design:

- Create an AutoCAD base plan for the project limits that will the basis of the proposed improvements.
- Create site plan sheets with the recommended corrective actions, proposed grading and associated limits of disturbance (Assumes 3 plan sheets)
- Create Construction Details for the recommended corrective action and associated erosion control measures in anticipation of permitting (Assumes 2 plan sheets)
- Prepare two preliminary opinions of probable construction costs based on the town bidding and performing the rehabilitation for the project.
- Submit to the Town draft plans, recommendation letter, cost estimates and reports for review and comment.
- Determine appropriate point of access to perform repairs.
- Coordinate with property owners and obtain right of entry agreements, in anticipation of performing construction in 2024.

Depending on the determined scope of recommended repairs, the Town's review of the submitted plans and reports and determination as to whether the Town would like to proceed with public bidding the required repairs or performing the associated repairs with the DPW forces, Stantec can develop a scope, level of effort and associated fee to perform MADEP wetlands dredge and fill permitting for construction, obtain formal access easement for future system maintenance (if required) and to develop contract documents (plans and specification) for construction, if it is desired by the Town to publicly bid the proposed improvements.

We anticipate that the project survey and wetlands delineation can be completed in March 2024, weather permitting, and we can complete the remaining scope of engineering services described here-in and provide a rehabilitation recommendation, draft plans, and associated reports to the Town by May 2024.

January 15, 2024 Mr. Walter Ramsey, Page 3 of 3

Reference: Oakman Street and Country Club Lane Storm Drain Outfall Repairs

Based on the described scope of work and we can perform the preliminary engineering services at a not to exceed costs of **\$51,881** a breakdown of the anticipated level of effort for each item described in the project scope is detailed in Attachment 'B'.

Should you have any questions or require any additional information please feel free to contact us.

Respectfully Submitted,

Stantec Consulting Services, Inc.

Bryan Ruoff, PE

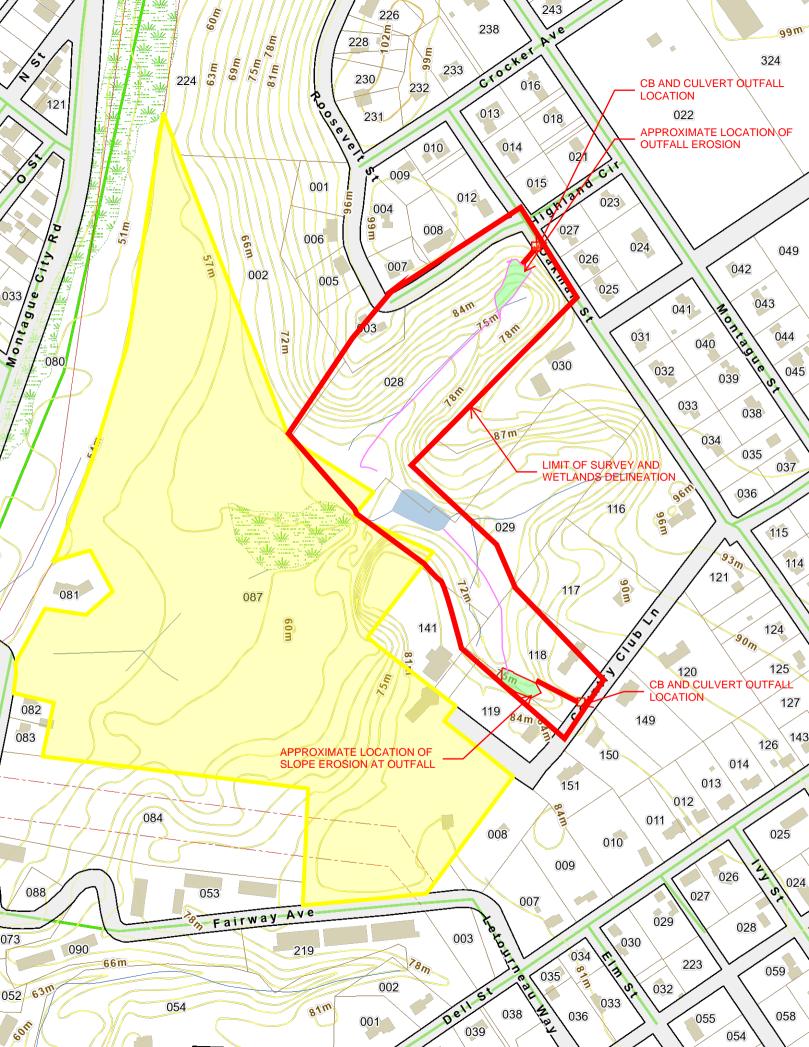
Associate

Phone: 603-206-7548 Fax: 603-669-7636 Bryan.Ruoff@stantec.com

Attachment: Level of Effort Summary
c. Tom Bergeron, Town of Montague, MA
Rene LaBranche, Stantec

rb document2

ATTACHMENT A - PROJECT LOCATION



ATTACHMENT B - LEVEL OF EFFORT SUMMARY



SUMMARY REPORT

Project Company	Stantec US Business Group
Project Currency	US Dollar
Project Type	Time & Material
Project Number	195189005
Project Name	Oakman St and Country Club Lane Outfall Failures
Client Name	Town of Montague, MA
Business Centre	BC-1951 Water-US Northeast
Project Manager	Bryan Ruoff
Project Technical Lead	Bryan Ruoff

Project Summary	Total Fee
Labour	\$31,624.00
Expense	\$360.36
Subs	\$19,897.50
Total	\$51,881.86

Planned Start Date	Planned End Date
2024-01-21	2024-06-10

Name	Role	Billing Rate	Hours	Sub-Total Fee
LaBranche, Rene	Principal in Charge	\$225.00	3.00	\$675.00
Ruoff, Bryan	PM / PTL	\$181.00	44.00	\$7,964.00
Garner, Cyrus	Geotech	\$150.00	42.00	\$6,300.00
Potter, Seth	Inspector	\$125.00	25.00	\$3,125.00
Butts, Sarah	Engineer	\$120.00	66.00	\$7,920.00
Drescher, Bill	Engineer	\$120.00	47.00	\$5,640.00
	-		227.00	\$31,624.00

Expense	Billing Rate	Units	Sub-Total Fee
Travel	\$0.64	560.00	\$360.36
			\$360.36

Subs	Billing Rate	Units	Sub-Total Fee
Subconsultants	\$1.05	18,950.00	\$19,897.50
			\$19,897.50



Budget Year **FY 26**

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Please complete this form in its entirety! Initial Submission due 10/31/2024.

	Check Here if this an expedited requ	est for Winter 2024	Special Town Meeting
Department:	DPW	Submitted by:	Samuel Urkiel
Item/Project Cost:	\$200,000	Date Prepared:	11/13/2024
Item/Project Title:	Meadow Rd Guardrail		
Proposed Article Word	ing:		
provide the sum of \$	vill vote to raise and appropriate, t \$200,000 or any other amount, for d related costs, or pass any vote o	the purpose of M	eadow Rd Guardrail, including any
Detailed Description fo	or Background Materials: (Provide a ful	l description of the item	or service. <u>Use attachments as needed</u> .)
guardrail is unsafe and	eplace and or make improvements to d wouldn't protect any motorist from . The height of the guardrail is also in	harm if needed. The	adow Rd and other areas in town. The e wood posts are rotten, broken and

Scoping Questions			Yes	No
Please elaborate in the comme	ents box at bottom of the p	age		
Do you have a written estimat If yes, attach the estimat		e of work?		
Is there a lease option for this	expense?			\boxtimes
Will this item or project replac	e a capital asset?			\boxtimes
Will this create ongoing costs of	or savings?			\boxtimes
Will this leverage grant or other	er external funding?			\boxtimes
Is this request identified on the	e Capital Improvement Pla	n?		\boxtimes
Describe how the project/ pur	rchase will be managed			
Who will manage procurement		' Will external reso	irces be red	quired for design,
engineering, procurement, or co	_			
FRCOG procurement, DPW proj	ject management.			
Make your argument for why this p consequences of inaction. To protect the public from addi			s of the proj	ect. If necessary, describe the
Relative Priority: Your assessr Critical Importance	ment of the how importan	t this is to the Tov Moderately Im	•	present time.
O	O	O	porture	
Comments and additional info	ormation:			





inefficient.

Annual Town Meeting SPECIAL ARTICLE REQUEST – CAPITAL EXPENSE

Budget Year **FY 26**

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Please complete this form in its entirety! Initial Submission due 10/31/2024.

L_	I Check Here if this an expedited req	luest for Winter 2024	Special Town Meeting
Department:	Libraries	Submitted by:	Caitlin Kelley
Item/Project Cost:	EST	Date Prepared:	10/29/2024
Item/Project Title:	Millers Falls Branch Library Storefr	ront Replacement	
Proposed Article Word	ding:		
provide the sum of	\$, or any other amount, for the p	urpose of replacing	lable funds, borrow, or otherwise g the Millers Falls Branch Library's costs, or pass any vote or votes in
Detailed Description f	or Background Materials: (Provide a f	full description of the item	n or service. <u>Use attachments as needed</u> .)
Though new HVAC wa	as installed and both the windows ar	nd back door of the N	Millers Falls Branch Library were
replaced, one thing p	reventing the building from being er	nergy efficient is the	glass storefront on the front of the
building. The storefro	nt leaks cold air in the summer and	hot air in the winter.	The glass makes the immediate area
around it quite hot fr	om the spring through early fall and	creates an uncomfoi	rtable "fishbowl" effect for library staff

It is the intention of this project to replace the storefront with a regular building façade, incorporating large, but standard-sized windows in keeping with the aesthetic of the neighborhood and an ADA compliant automatic front door. Additionally, the ceiling tiles will be upgraded, and the current lighting will be swapped for LED's. The existing ceiling grid will be kept.

and patrons. Additionally, the front door regularly lets in water during heavy rains, which has led to interior floor

damage. The current door is not accessible. Additionally, the current ceiling tiles are very old, and the ceiling lights are

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Comments and additional information:

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Budget Year **FY 26**

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Please complete this form in its entirety! Initial Submission due 10/31/2024.

\boxtimes	Check Here if this an expedited re	quest for Winter 2024	Special Town Me	eting	
Department:	Parks & Recreation	Submitted by:	Jon Dobosz, Di	rector	
Item/Project Cost:	\$100,000	Date Prepared:	10/20/24		
Item/Project Title:	Unity Park Playground Pour-in-Pla	round Pour-in-Place Rubber Surfacing			
Proposed Article Word	ding:				
provide the sum of	will vote to raise and appropriate \$70,000* or any other amount, f ed costs, or pass any vote or vot	for the purpose of <	< >>, including		Э
Detailed Description f	or Background Materials: (Provide a	full description of the item	or service. <u>Use attac</u>	hments as needed.)	i
This project will inclu	de the replacement of the rubber p	our-in-place (PIP) surf	acing in the Unity	/ Park playground.	The
current surface is bey	ond its useful life and has been cra	cking and pulling up ir	numerous areas	due to high traffic	: .
There is approximate	ly 2,500 sq. feet of PIP surfacing tha	at must be replaced.			
Scoping Questions			Yes	No	
	he comments box at bottom of t	he paae	. 03		
	on estimate or proposal for the so	-	\boxtimes		

If yes, attach the esti	mate				
Is there a lease option for th	is expense?			\boxtimes	
Will this item or project repla	ace a capital asset?		\boxtimes		
Will this create ongoing cost	s or savings?			\boxtimes	
Will this leverage grant or ot	her external funding?			\boxtimes	
Is this request identified on t	the Capital Improvement I	Plan?	\boxtimes		
Describe how the project/ p	ourchase will be managed				
Who will manage procuremen	nt and execution of the proje	ct? Will external res	ources be r	equired for design,	
engineering, procurement, or					
The Parks & Recreation Depar	rtment will manage procurer	ment and execute tl	ne project.	The playground surfac	:e
vendor will be responsible for	.		•	,	
Why is it essential that the 1	Town makes this investme	ent now?			
Make your argument for why this consequences of inaction.	s project is necessary and timel	ly. Articulate the bene	fits of the pro	oject. If necessary, descri	be the
Unity Park is not only the most Franklin County. The playgrour outine maintenance. The life is original to Phase 1 of the Unreplacement of this surface is making it ideal for those patrotorn areas, but these efforts h	und receives constant patrone of rubber pour-in-place surnity Park Improvement Projenot only critical to the safetons with mobility issues. Att	nage, which speaks facing is approxima ect from 2012, so it y of our patrons, but the motes have been me	to the impo tely ten yea is slightly be t it is also c	ortance of committing to ars, and the current PIF eyond its useful life. To ompletely ADA compli	to Surface The ant,
Relative Priority: Your asses	·		•	esent time.	
Critical Importance	Highly Important	Moderately	Important		
X	0	0			
Comments and additional in	nformation:				



Quotation

M.E. O'Brien & Sons, Inc. is an Affirmative Action/Equal Opportunity Employer AA/EOE and Massachusetts SDO Certified WBE

Company Address

Date 11/4/2024

PO Box 718, Medway MA 02053-0718 TEL 508-359-4200 / FAX 508-533-6342

Quotation Expires 12/4/2024

www.obrienandsons.com

Salesperson Colin Boutin

Customer Name Jonathan Dobosz, Town of Montague

Admin Asst Breana Anderson

Tel, Email 413-863-3216 / recdir@montague-ma.gov

Version #

				Version #		2	
lob Name		Unity Park, Turn	ers Falls MA			***************************************	
Salesperson		Email	Pay Terms	Estimated Lead Time			
Colin Bout	tin	colin_boutin@obrienandsons.com	Net 30		TBD		
Quantity	Unit	Vendor, Model Number & Description	Unit Price	Taxable?	An	nount	
		Surface America					
2,746	sq/ft	PlayBound Poured-in-Place Safety Surfacing at a combination of 998 sq/ft at 1.75" thick, 1,167 sq/ft at 3.5" thick, and 581 sq/ft at 5.5" thick, includes turn down of Poured-in-Place into EWF. 50% Color/50% Black speckled mix, includes Aliphatic Binder with 10 Year Warranty (deduct \$9,144 from total price to change to Aromatic Binder with 7 Year Warranty)					
1	lot	Total Furnished, Delivered, and Installed	\$ 78,987.00	No	\$	78,987.0	
		Site Work					
		Remove current damaged Poured-in-Place					
		Confirm existing subbase is intact					
		Dispose of removed materials					
1	lot	Total Site Work	\$ 12,500.00	No	\$	12,500.0	
				Subtotal	\$	91,487.0	
you have any questions concerning this quotation, please contact your			Tax Rate				
lesperson lis	ted abov	e.		Sales Tax	\$	-	
					M. PERSONAL SE		



Budget Year **FY 26**

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Please complete this form in its entirety! Initial Submission due 10/31/2024.

Check Here if this an expedited request for Winter 2024 Special Town Meeting						
Department:	Selectboard	Submitted by:	Chris Nolan-Zeller, Asst. Town Admin.			
Item/Project Cost:	\$60,000	Date Prepared:	11/06/2024			
Item/Project Title:	Millers Falls Rd and Ind	ustrial Blvd – FRTA Bus Stop Imp	provements			

Proposed Article Wording:

To see if the Town will vote to raise and appropriate, transfer from available funds, borrow, or otherwise provide the sum of **\$60,000**, or any other amount, for the purpose of supplementing grant funds received by the Franklin Regional Transit Authority for bus stop improvements at Millers Falls Road and Industrial Boulevard, including any and all incidental and related costs, or pass any vote or votes in relation thereto.

Detailed Description for Background Materials: (Provide a full description of the item or service. <u>Use attachments as needed</u>.)

The Franklin Regional Transit Authority (FRTA) was awarded a grant from MassDOT's Shared Streets and Spaces program in the amount of \$178,376 to fund improvements to the two bus stops on either side of Millers Falls Road at the intersection with Industrial Boulevard. Proposed improvements included four possible alternates, consisting of either Rectangular Rapid Flashing Beacons (RRFB) or HAWK Beacons for pedestrian crossing, and of either Simme-Seats or bus shelters for the comfort and convenience of transit users.

A deficit of \$57,287 exists between the grant award and the project engineer's opinion of probable cost for the least expensive of the four alternates, which includes RRFBs and Simme-Seats. As a result, the FRTA is now approaching the Town and other stakeholder organizations, such as the Franklin Regional Housing and Redevelopment Authority (FCRHRA), to request assistance with funding this shortfall.

Scoping Questions Please elaborate in the comment	s box at bottom of the page	Yes	No
Do you have a written estimate of	vork?		
Is there a lease option for this ex		\boxtimes	
Will this item or project replace a	a capital asset?		\boxtimes
Will this create ongoing costs or	savings?		\boxtimes
Will this leverage grant or other	external funding?	\boxtimes	
Is this request identified on the C	Capital Improvement Plan?		\boxtimes
Describe how the project/ purch	ase will be managed		
Who will manage procurement and	d execution of the project? Will	external resources be requir	ed for design,
engineering, procurement, or cons	truction oversight?		
The project will be fully managed a	and administered by the FRTA.		
Why is it essential that the Town	n makes this investment now	v?	
Make your argument for why this proj consequences of inaction.	ect is necessary and timely. Articul	ate the benefits of the project.	If necessary, describe the
If the FRTA is unable to secure suf would need to be surrendered and for all users at a bus stop location during peak hours.	I the project would not move fo	rward. The project as design	ned would improve safety
Relative Priority: Your assessme Critical Importance O	·	is to the Town at the pres loderately Important OX	sent time.

Comments and additional information:

L	 	 	

FRTA – INDUSTRIAL BLVD/MILLERS FALLS RD BUS STOP IMPROVEMENTS

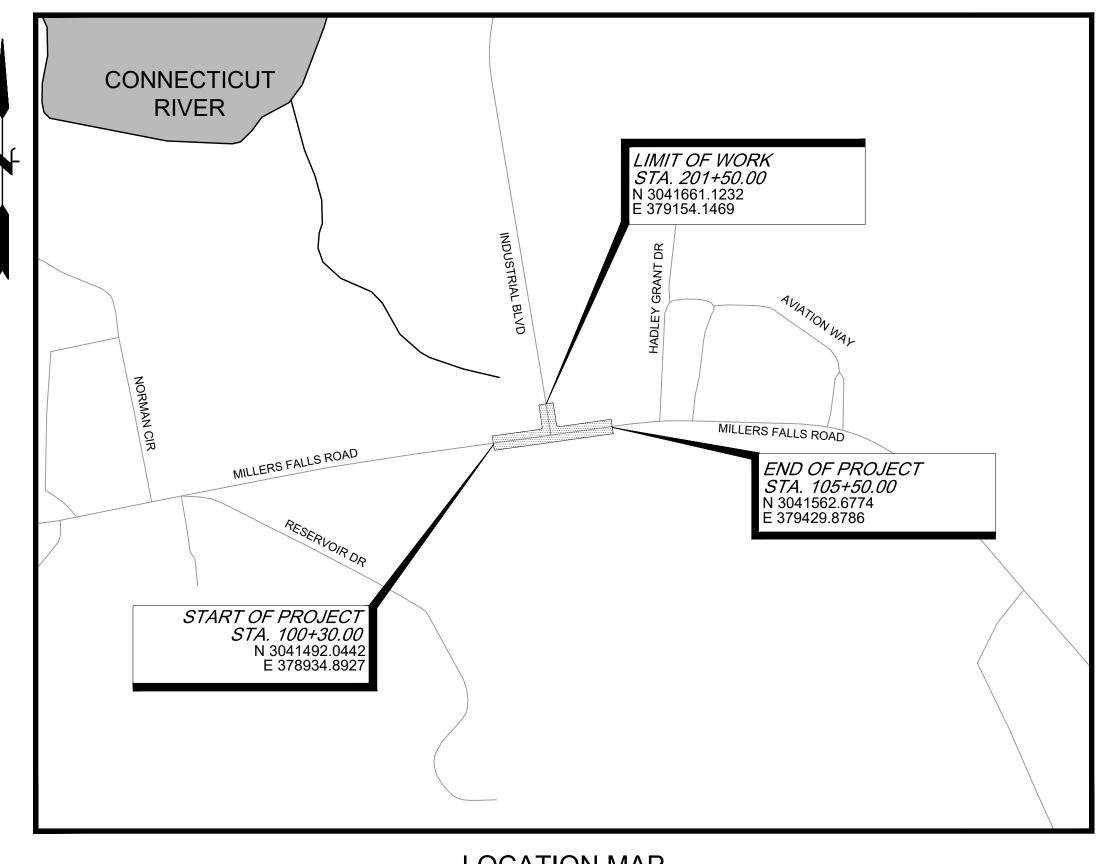
MONTAGUE · MASSACHUSETTS

PRELIMINARY DESIGN SUBMITTAL NOT FOR CONSTRUCTION

AUGUST 2024

SHEET INDEX

Page no.	Sheet no.	Sheet Title
1	GI-001	COVER SHEET
2	GI-002	LEGEND & GENERAL NOTES
3	GI-301	TYPICAL SECTIONS
4	CS-101	CONSTRUCTION PLANS
5-6	CR-201-202	ROADWAY PROFILES
7	CG-101	GRADING & BASELINE TIE PLANS
8	CT-101	PAVEMENT MARKING & SIGNING PLANS
9	CT-601	STANDARD TRAFFIC SIGN SUMMARY SHEET
10	CT-102	TRAFFIC SIGNAL PLANS
11-13	CT-103-105	TEMP. TRAFFIC MANAGEMENT PLANS
14	CT-602	TEMP. TRAFFIC SIGN SUMMARY SHEET
15-17	CD-501-503	CONSTRUCTION DETAILS
18	RW-101	ANTICIPATED ROW OF WAY IMPACT



LOCATION MAP SCALE: 1" = 400'

LENGTH OF PROJECT = 580 FEET = 0.1098 MILES

PREPARED BY

FUSS& O'NEILL

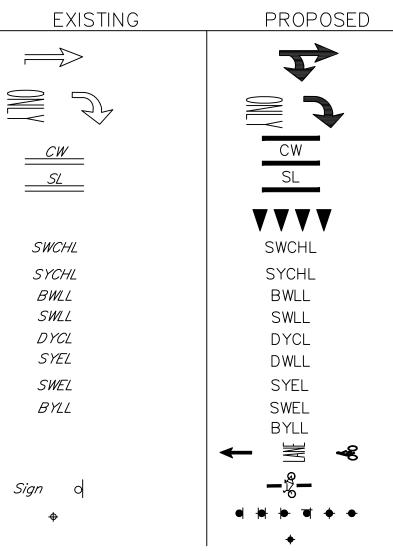
1550 MAIN STREET, SUITE 400 SPRINGFIELD, MA 01103 413.452.0445 www.fando.com PREPARED FOR

FRANKLIN REGIONAL TRANSIT AUTHORITY

12 OLIVE STREET GREENFIELD, MA 01301 PROJ. No.: 20240059.A10
DATE: AUGUST 2024

GI-001

PAVEMENT MARKINGS AND SIGNING SYMBOLS



PAVEMENT ARROW AND LEGEND

CROSSWALK, 2-12" WHITE LINES (WIDTH NOTED) STOP LINE, 12" WHITE LINE 4.0' BEHIND CW (TYP) YIELD LINE, 24" x 36" WHITE TRIANGLE, 36" O.C. SOLID WHITE CHANNELIZING LINE-SIZE AS NOTED SOLID YELLOW CHANNELIZING LINE-SIZE AS NOTED BROKEN WHITE LANE LINE - 4" SOLID WHITE LANE LINE - 4" DOUBLE YELLOW CENTERLINE - 4" DASHED WHITE LANE LINE - 4" SOLID YELLOW EDGE LINE - 4" SOLID WHITE EDGE LINE - 4" BROKEN YELLOW LANE LINE - 4" BICYCLE LANE BICYCLE DETECTION LEGEND SIGN AND POST DELINEATOR

REGULATORY REQUIREMENTS

- 1. ALL WORK SHALL CONFORM WITH THE ORDER OF CONDITIONS (OOC) ISSUED FOR THE
- 2. NOTIFY CITY OF EASTHAMPTON CONSERVATION COMMISSION A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION.
- 3. FIELD INSPECTOR SHALL BE NOTIFIED 48 HOURS PRIOR TO CONSTRUCTION.
- 4. POST DEP SIGN NUMBER ASSIGNED IN ACCORDANCE WITH THE ORDER OF CONDITIONS.
- 5. APPROVED PLANS SHALL BE ON SITE AT ALL TIMES.
- 6. WITHIN LOCAL RIGHTS-OF-WAY, PERFORM THE WORK IN ACCORDANCE WITH LOCAL MUNICIPAL STANDARDS. 7. THE CONTRACTOR IS RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. PERFORM
- CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL
- 8. DISPOSE OF DEMOLITION DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, ORDINANCES AND STATUTES.

GENERAL NOTES:

- 1. INFORMATION REGARDING THE LOCATION OF EXISTING UTILITIES HAS BEEN BASED UPON AVAILABLE INFORMATION AND MAY BE INCOMPLETE, AND WHERE SHOWN SHOULD BE CONSIDERED APPROXIMATE. NO GUARANTEE TO THE ACCURACY OF THE EXISTING UTILITIES FACILITIES SHOWN IN THIS PROJECT IS EXPRESSED OR IMPLIED UNLESS OTHERWISE NOTED. CONTRACTOR SHALL CONTACT "Mass DIG-SAFE", 1-888-344-7233. CONTRACTOR SHALL MAINTAIN MARKINGS WHERE NEEDED DURING PROJECT. ALL UTILITY LOCATIONS THAT DO NOT MATCH THE VERTICAL OR HORIZONTAL CONTROL SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION. THE CONTRACTOR SHALL VERIFY LOCATIONS OF UTILITIES AND SERVICE LATERALS PRIOR TO CONSTRUCTION. ANY CONFLICTS WITH LOCATIONS OF LIGHT POLES, TREES, ETC. SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION PRIOR TO CONSTRUCTION.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY LOCAL AND STATE APPROVALS AND PERMITS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL CONFORM TO ALL REQUIREMENTS OF THE LOCAL AND STATE AGENCIES. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND FEES REQUIRED FOR THIS WORK INCLUDING BUT NOT LIMITED TO TOWN SIDEWALK AND EXCAVATION PERMITS AND ASSOCIATED BONDING.
- 3. THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES AND STRUCTURES. THOSE OF WHICH HAVE BEEN DAMAGED SHALL BE PROMPTLY REPAIRED TO EXISTING OR BETTER CONDITION AT THE CONTRACTOR'S EXPENSE.
- 4. THE ROADWAY IS TO BE GRADED SMOOTHLY AND EVENLY IN ACCORDANCE WITH THE GRADING AND TIE PLANS, PROFILE, AND CROSS SECTIONS. THE CONTRACTOR IS RESPONSIBLE FOR INSURING A POSITIVE DRAINAGE FLOW TO ALL CATCH BASINS WITHOUT CREATING ANY FLAT SPOTS THAT WILL RESULT IN STANDING WATER.
- 5. THE CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNERS TO REMOVE ANY PERSONAL ITEMS, LANDSCAPING, PLANT BULBS, PAVERS LOCATED IN THE TEMPORARY EASEMENT AND CITY LAYOUT.
- 6. ANY PUBLIC OR PRIVATE PROPERTY DISTURBED AS A RESULT OF CONSTRUCTION OPERATIONS SHALL BE RESTORED AS QUICKLY AS POSSIBLE AND TO THE SATISFACTION OF THE ENGINEER.
- 7. HOURS OF WORK SHALL BE DEFINED IN THE CONTRACT DOCUMENTS. THE TOWN RESERVES THE RIGHT TO ADJUST THESE HOURS IN THE INTEREST OF PUBLIC SAFETY. ACCESS TO PRIVATE PROPERTIES MUST BE MAINTAINED AT ALL TIMES. FOR SECURITY

REASONS ALL PRIVATELY OWNED FENCING THAT IS TO BE REMOVED SHALL BE

REPLACED WITHIN 72 HOURS OF REMOVAL. 9. INSTALL SEDIMENTATION AND EROSION CONTROL MEASURES PRIOR TO START OF CONSTRUCTION. EXISTING AND PROPOSED CATCH BASINS DOWNGRADE OF ALL WORK AREAS SHALL UTILIZE SILT SACKS DURING CONSTRUCTION

MAP REFERENCE

- 1.1. EXISTING CONDITIONS DEPICTED ON THIS PLAN ARE COMPILED FROM SURVEY PERFORMED BY SHERMAN & FRYDRYK. BETWEEN JULY 12, 2024 AND JULY 15, 2024, AN AUTOCAD FILE PROVIDED BY THE SHERMAN & FRYDRYK ON AUGUST 21, 2024, AND FUSS & O'NEILL SITE INVESTIGATIONS ON July 9, 2024.
- 1.2. HORIZONTAL DATUM REFERS TO THE MASSACHUSETTS COORDINATE SYSTEM, NAD83, MAINLAND ZONE, VERTICAL DATUM IS NAVD88. BOTH DATUM'S ARE ESTABLISHED AT THE SITE BY LOCAL GPS OBSERVATION ON THE MASSCORS NETWORK.

ABBREVIATIONS

	GENERAL				UTILITIES
ABAN	ABANDON	- NTS	NOT TO SCALE	ACCMP	ASPHALT COATED CORRIGATED METAL PIPE
ADJ	ADJUST	PGL	PROFILE GRADE LINE	CAP	CORRUGATED ALUMINUM PIPE
APPROX	APPROXIMATE	PROP	PROPOSED	CIP	CAST IRON PIPE
BIT	BITUMINOUS	PVM'T	PAVEMENT	CIT	CHANGE IN TYPE
BOS	BOTTOM OF SLOPE			COND	CONDUIT
		REM	REMOVE	DIP	DUCTILE IRON PIPE
(B.O.)	BY OTHERS	REMOD	REMODEL	FES	FLARED END SECTION
CLF	CHAINLINK FENCE	RET	RETAIN	F&C	FRAME AND COVER
CONC	CONCRETE	R&D	REMOVE AND DISCARD	F&G	FRAME AND GRATE
ELEV	ELEVATION	R&R	REMOVE AND RESET	HDPE	HIGH DENSITY POLYETHYLENE PIPE
EOP	EDGE OF PAVEMENT	R&S	REMOVE AND STACK	HW	HEADWALL
EXIST	EXISTING	RT	RIGHT	HYD	HYDRANT
FND	FOUNDATION	STA	STATION	INV	INVERT
GRAN	GRANITE	TEMP	TEMPORARY	PVC	POLYVINYLCHLORIDE PIPE
HMA	HOT MIX ASPHALT	TOS	TOP OF SLOPE	PWW	PAVED WATER WAY
LOAM	LOAM BORROW	TYP	TYPICAL	RCP	REINFORCED CONCRETE PIPE
LT	LEFT			TSV&B	TAPPING SLEEVE VALVE AND BOX
MAX	MAXIMUM			UP	UTILITY POLE
MIN	MINIMUM			UF	OTILITI FOLE

ALI	GNMENT/GRADING
CC	CENTER OF CURVE
HP	HIGH POINT
LP	LOW POINT
PC	POINT OF CURVE
PI	POINT OF INTERSECTION
PNT	POINT
PCC	POINT OF COMPOUND CURVE
PRC	POINT OF REVERSE CURVE
PT	POINT OF TANGENT
25.45	SPOT ELEVATION
•	

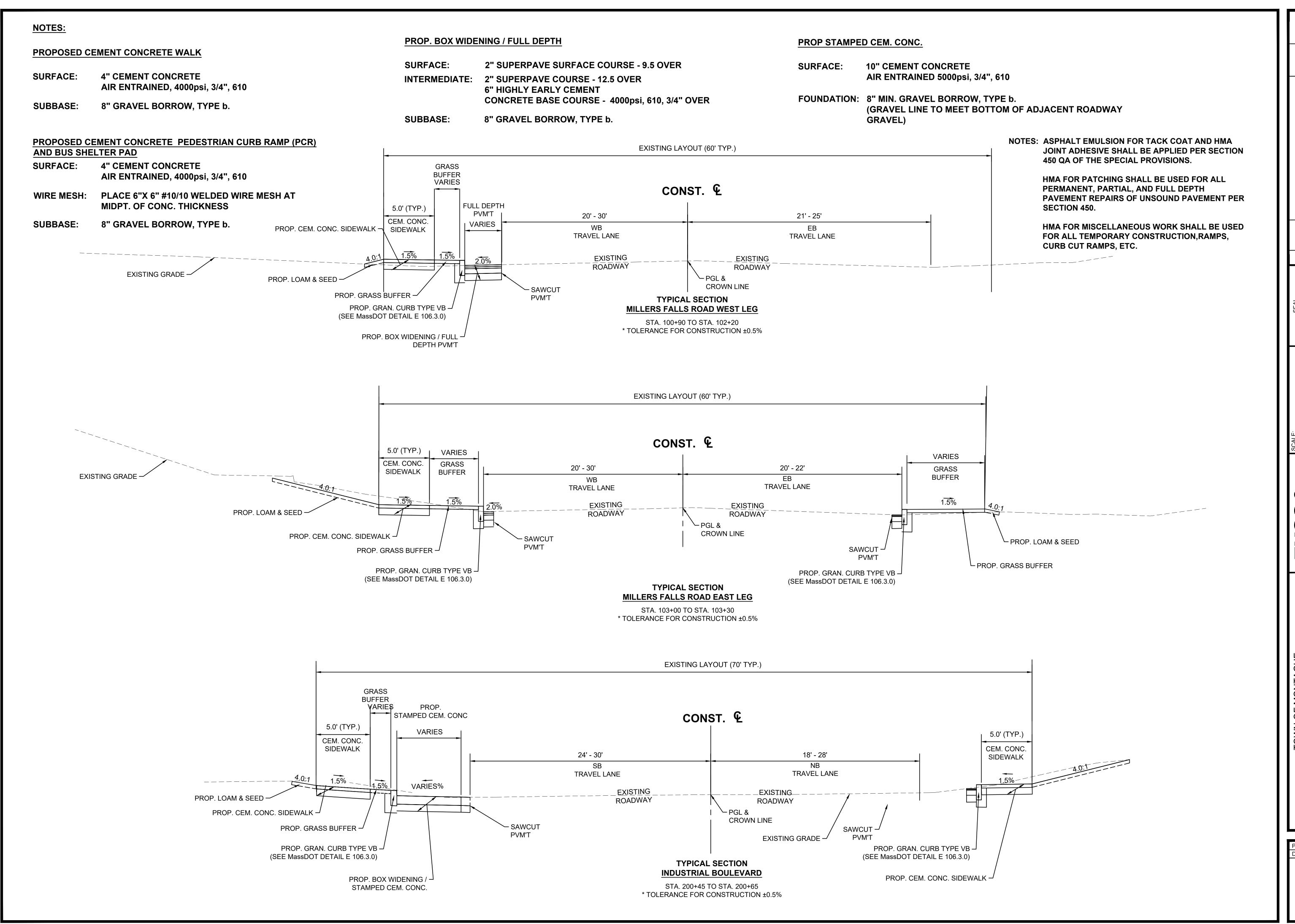
AD	ALGEBRAIC DIFFERENCE IN RATES OF
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
ELEV	ELEVATION
HSD	HORIZONTAL SIGHT DISTANCE
K	RATE OF VERTICAL CURVATURE
⊃VI	POINT OF VERTICAL INTERSECTION
PVC	POINT OF VERTICAL CURVE
⊃VT	POINT OF VERTICAL TANGENT
PVRC	POINT OF VERTICAL REVERSE CURVE
⊃VCC	POINT OF VERTICAL COMPOUND CURV
SD	STOPPING SIGHT DISTANCE
VC	VFRTICAL CURVF

PROFILES

TR.	AFFIC SIGNAL SYSTEMS
R	STEADY CIRCULAR RED
Υ	STEADY CIRCULAR YELLOW
G	STEADY CIRCULAR GREEN
FR	FLASHING CIRCULAR RED
$-FR \rightarrow$	FLASHING RED ARROW
FY	FLASHING CIRCULAR YELLOW
$-FY \rightarrow$	FLASHING YELLOW ARROW
G	STEADY VERTICAL GREEN ARROW
G X-	STEADY LEFT ARROW (RED, YELLOW OR GREEN PREFIX)
$-\times \rightarrow$	STEADY RIGHT ARROW (RED, YELLOW OR GREEN PREFIX)
W	STEADY WALK-WHITE
DW	STEADY DON'T WALK-PORTLAND ORANGE
FDW	FLASHING DON'T WALK-PORTLAND ORANGE

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

GI-002



HORZ.: NOT TO SCALE
VERT.:
DATUM:
HORZ.: VERT.: -

FUSS & O'NEILL

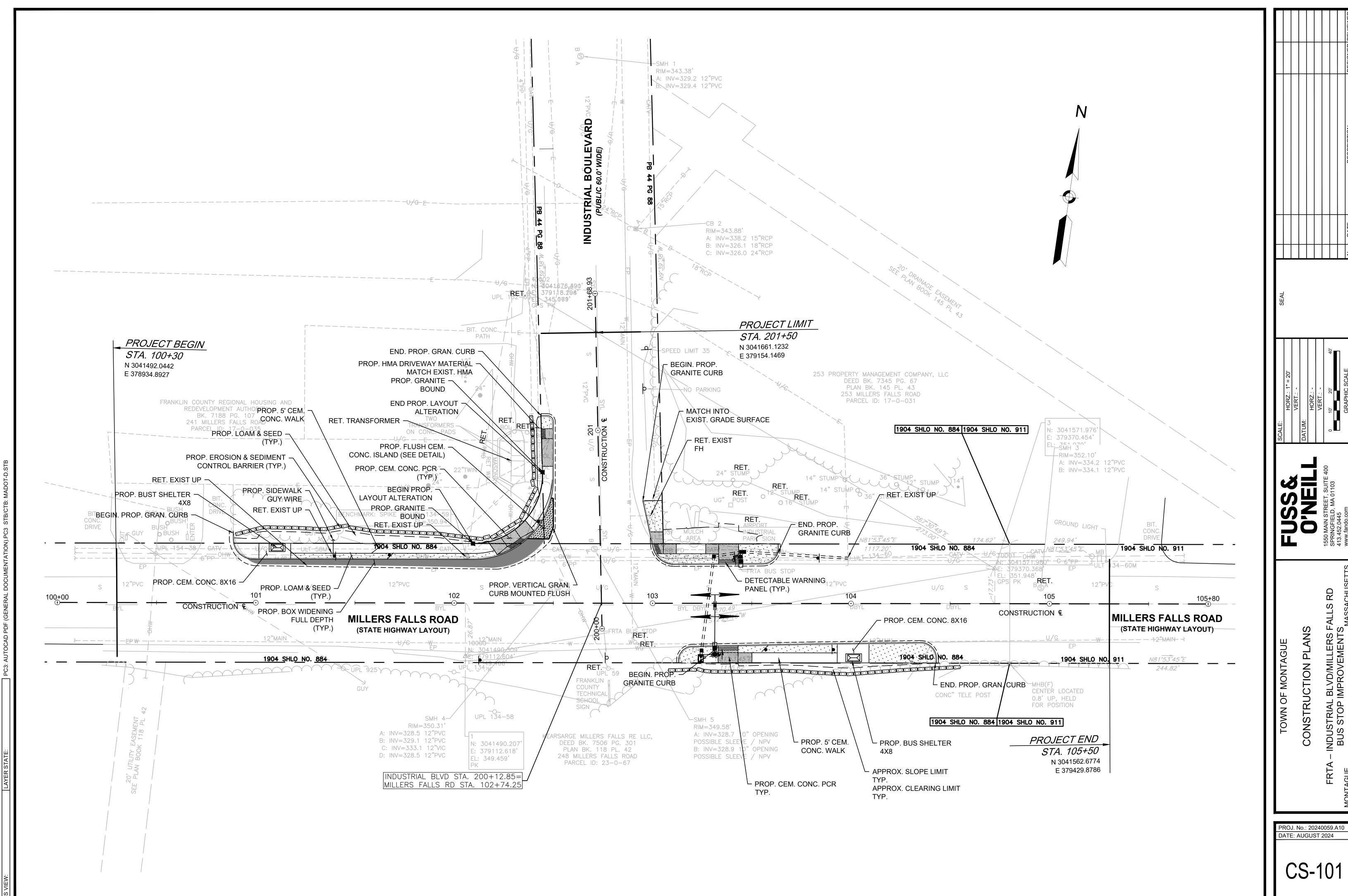
TYPICAL SECTIONS

OUSTRIAL BLVD/MILLERS FALLS RD

FRTA – II

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

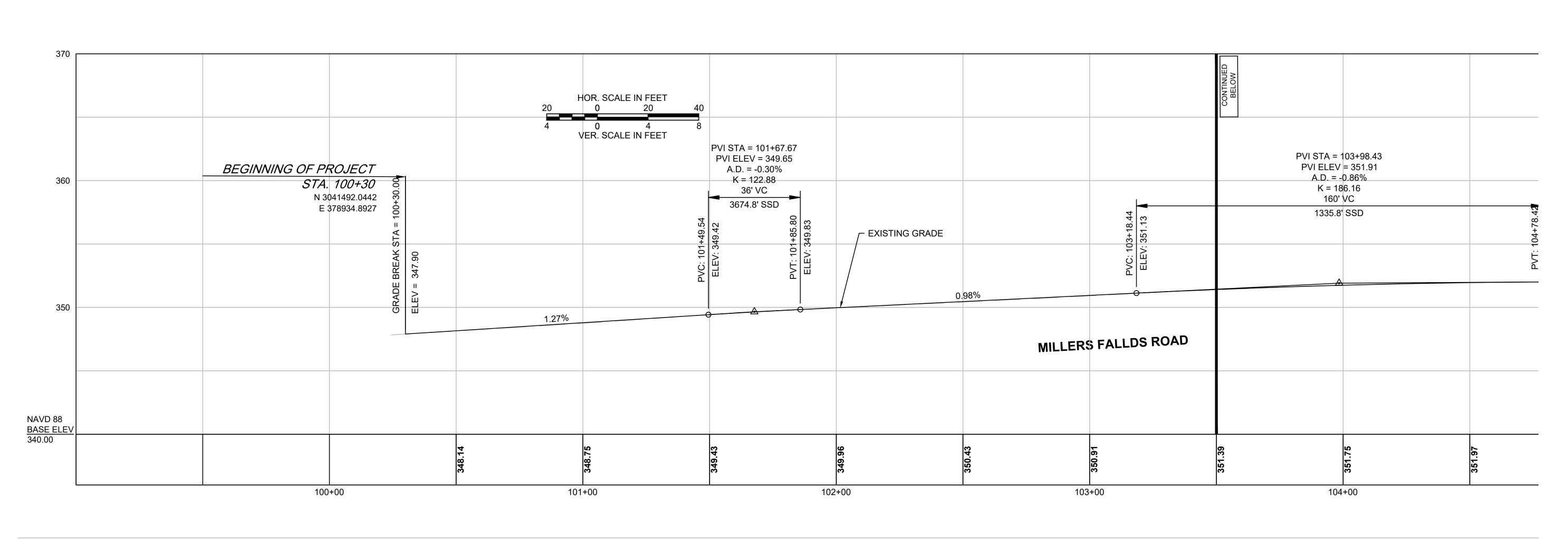
GI-301

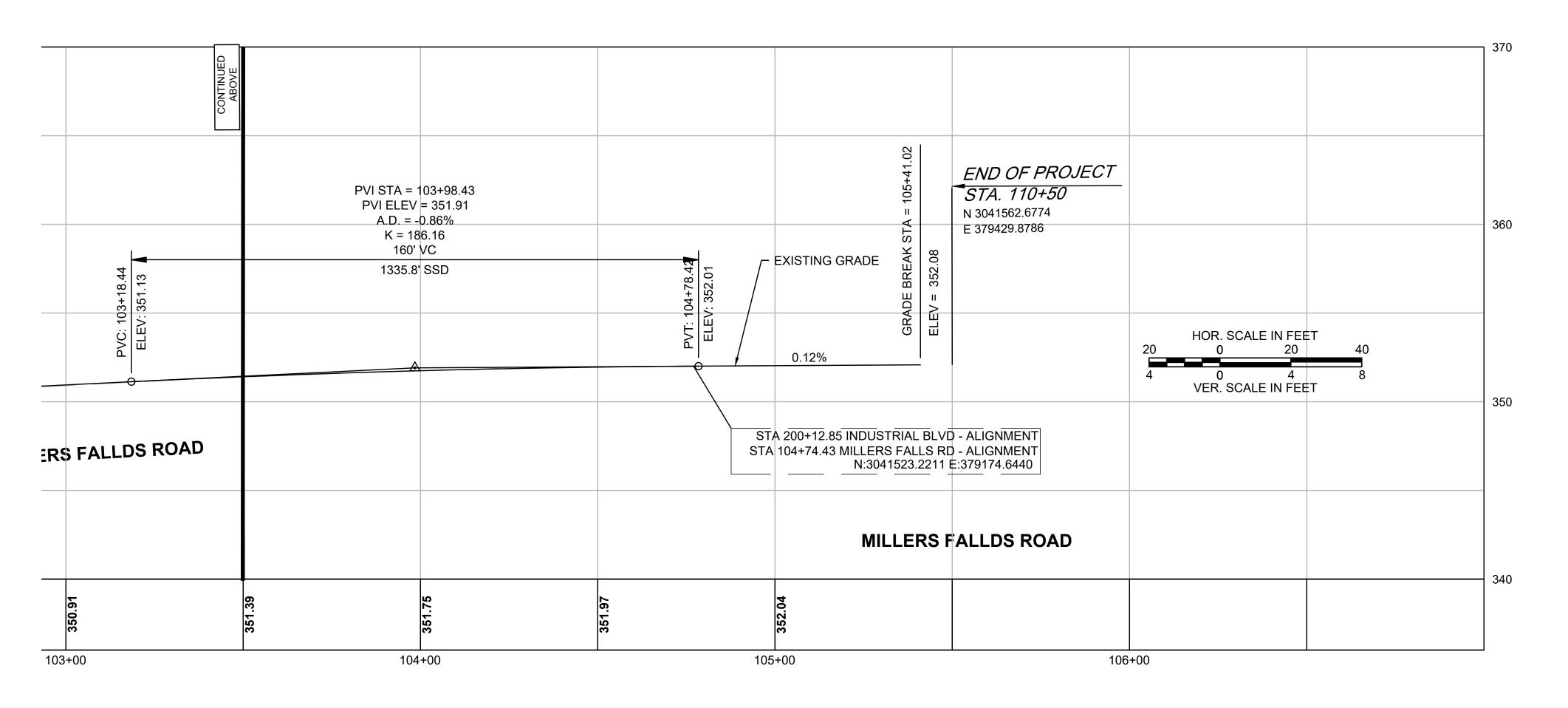


SS&

DATE: AUGUST 2024

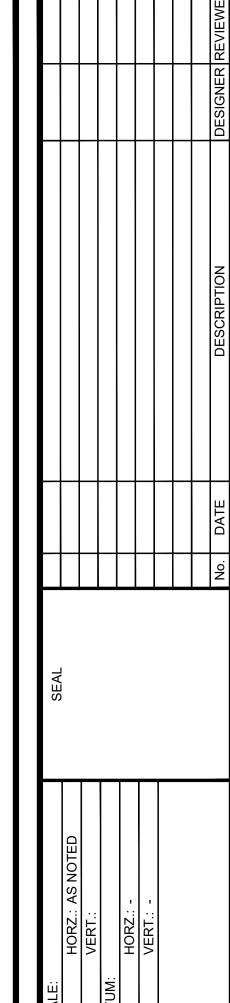
CS-101





NOTES:

- 1. THE ROADWAY PROFILE WILL REMAIN UNCHANGED. THE PROPOSED BOX WIDENING WILL MATCH THE EXISTING GRADE EXACTLY.
- 2. CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE ELEVATION OF WIDENED SECTION ALIGNS SEAMLESSLY WITH THE CURRENT ROADWAY GRADE, WITH NO CHANGES TO EXISTING ROADWAY PROFILE.



FUSS & O'NEILL 1550 MAIN STREET, SUITE 400

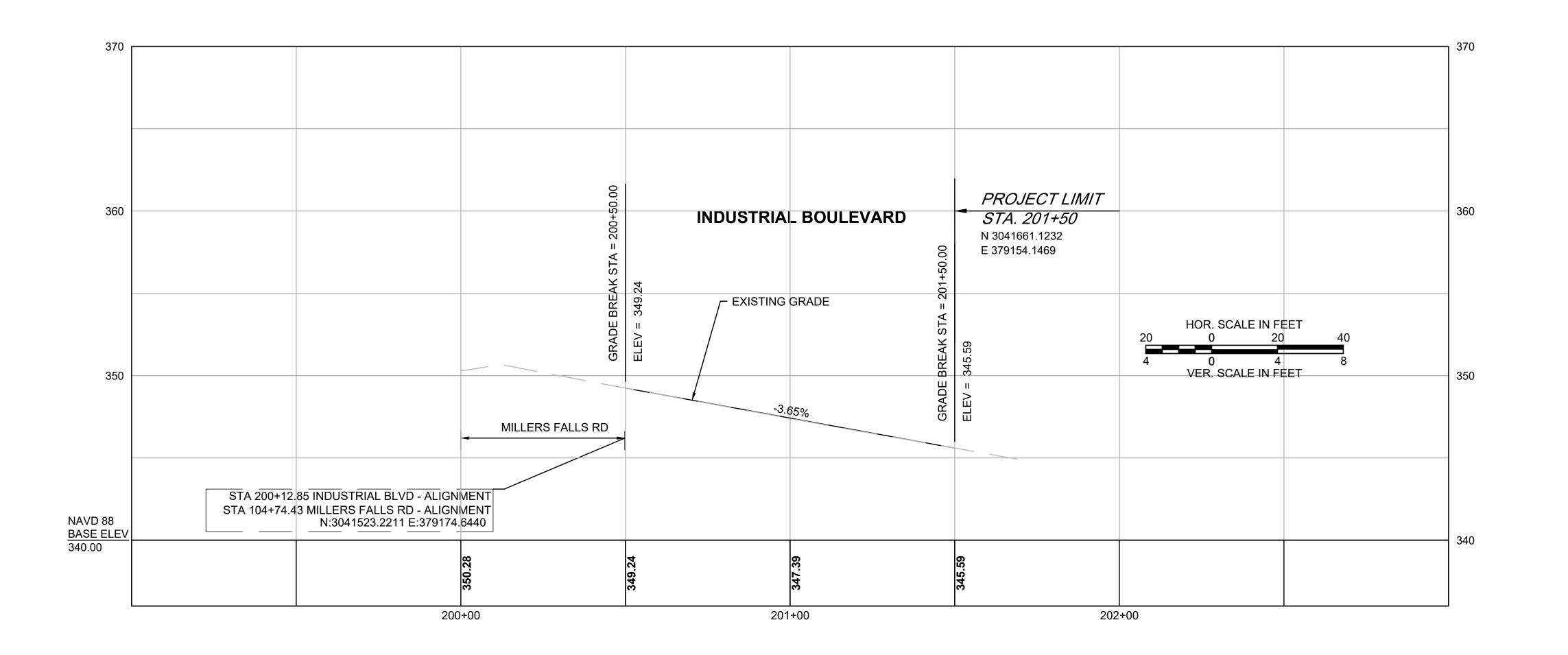
ADWAY PROFILES TRIAL BLVD/MILLERS FALLS RD

> FRTA – INI MONTAGUE

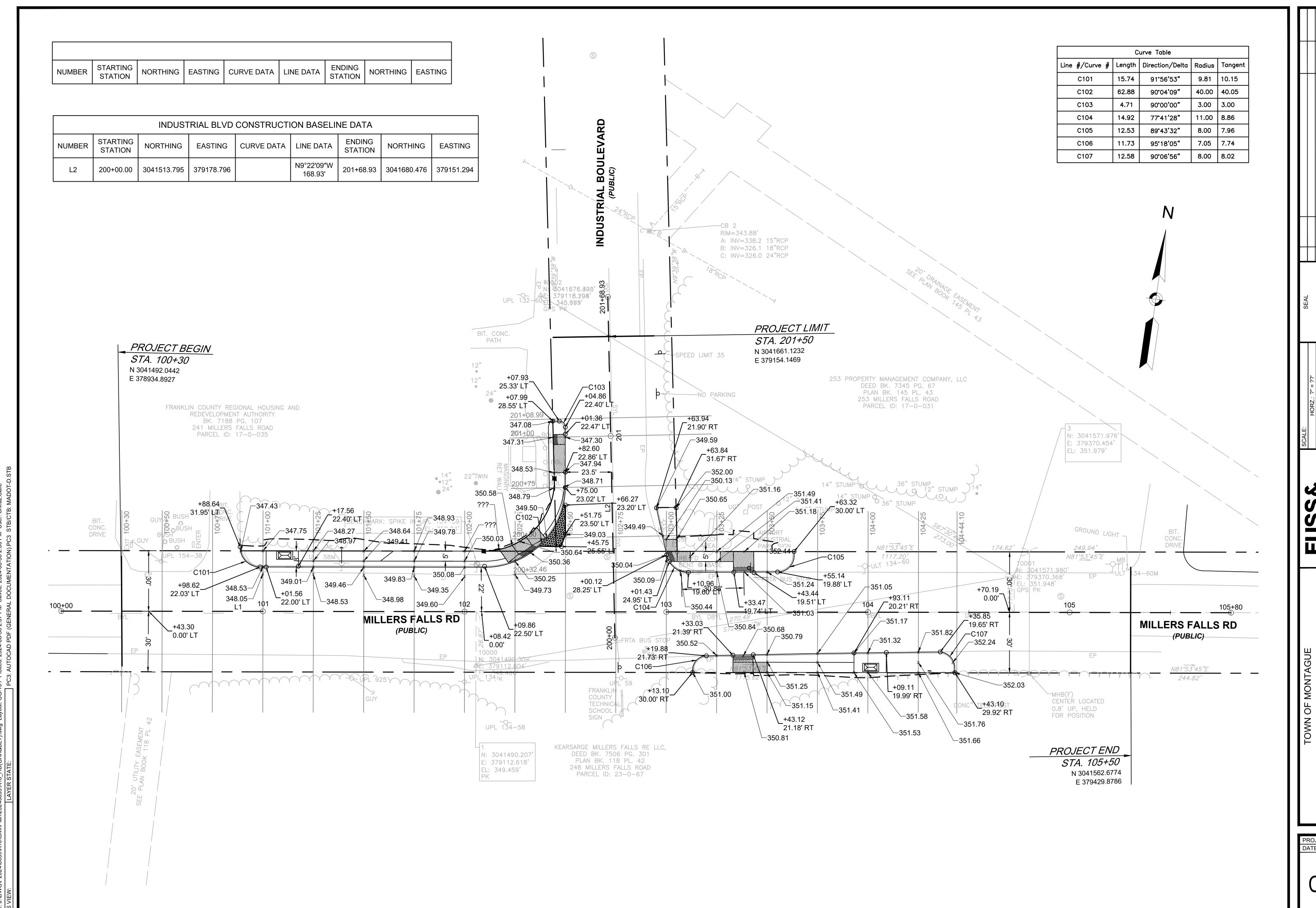
PROJ. No.: 20240059.A10 DATE: AUGUST 2024

CR-201

- 1. THE ROADWAY PROFILE WILL REMAIN UNCHANGED. THE PROPOSED BOX WIDENING WILL MATCH THE EXISTING GRADE EXACTLY.
- 2. CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE **ELEVATION OF WIDENED SECTION ALIGNS** SEAMLESSLY WITH THE CURRENT ROADWAY GRADE, WITH NO CHANGES TO EXISTING ROADWAY PROFILE.



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

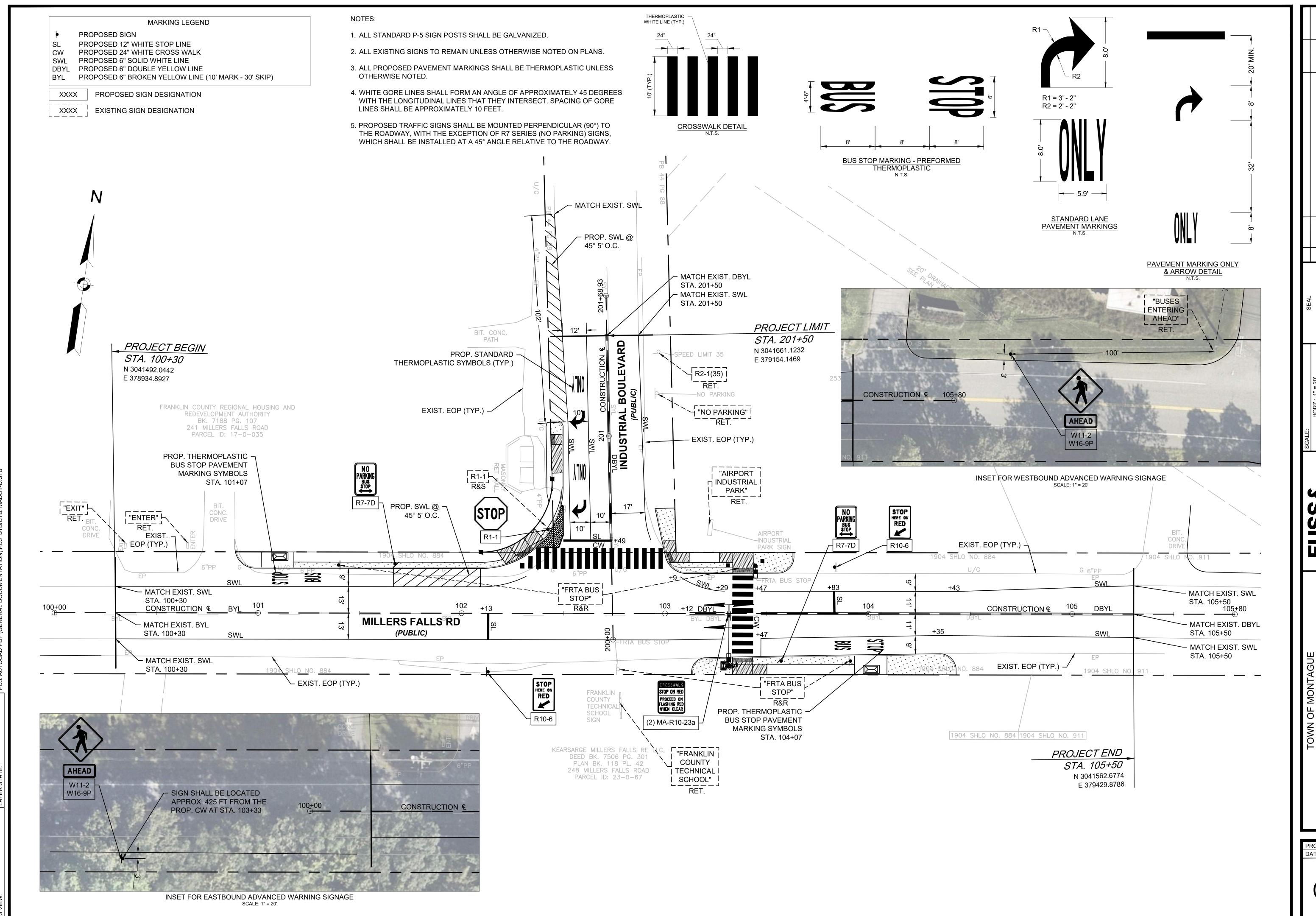


USS& O'NEIL

INDUSTRIAL BLVD/MILLERS FALLS RD BUS STOP IMPROVEMENTS

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

CG-101



USS& O'NEIL

INDUSTRIAL BLVD/MILLERS FALLS RD BUS STOP IMPROVEMENTS SIGNING

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

NOTES

IDENTIFI-	SIZE C	F SIGN		TEXT	DIMENSION	IS (IN)	NUMBER OF		COLOR		POST SIZE AND	SIGN FACE	TOTAL
CATION NUMBER	WIDTH (IN)	HEIGHT (IN)	TEXT	LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR	SIGNS REQUIRED	BACK- GROUND	LEGEND	BORDER	NUMBER REQUIRED	AREA (S.F.)	AREA (S.F.)
R1-1	30	30	STOP	HIGHW	WA 2004 STA VAY SIGNS M GLISH VERS	IANUAL	1	RED	WHITE	WHITE	P-5 1 REQ'D	6.25	6.25
R10-6	24	36	STOP HERE ON RED				2	WHITE	BLACK	BLACK	P-5 2 REQ'D	6.00	12.00
W11-2	30	30					2	YELLOW	BLACK	BLACK	P-5 2 REQ'D	6.25	12.50
W16-9P	24	12	AHEAD				2	YELLOW	BLACK	BLACK	MOUNTED W/ W11-2	2.00	4.00
MA-R10-23a	24	30	STOP ON RED PROCEED ON FLASHING RED WHEN CLEAR	4C 4C 3.5C 3.5C 3.5C	2.5 3.5 4.5 2 2 3	N/A	2	YELLOW WHITE	BLACK	BLACK	O'HEAD MOUNT	5.00	10.00
R7-7D	12	18	NO PARKING BUS \$TOP	3C 3B 2C 2C	0.875 0.625 0.625 1.5 2	0.75 x 7.75 (ARROW)	2	WHITE	RED	RED	P-5 2 REQ'D	1.50	3.00

HORZ.: NOT TC

VERT.:

DATUM:

HORZ.:
VERT.:
SUITE 400

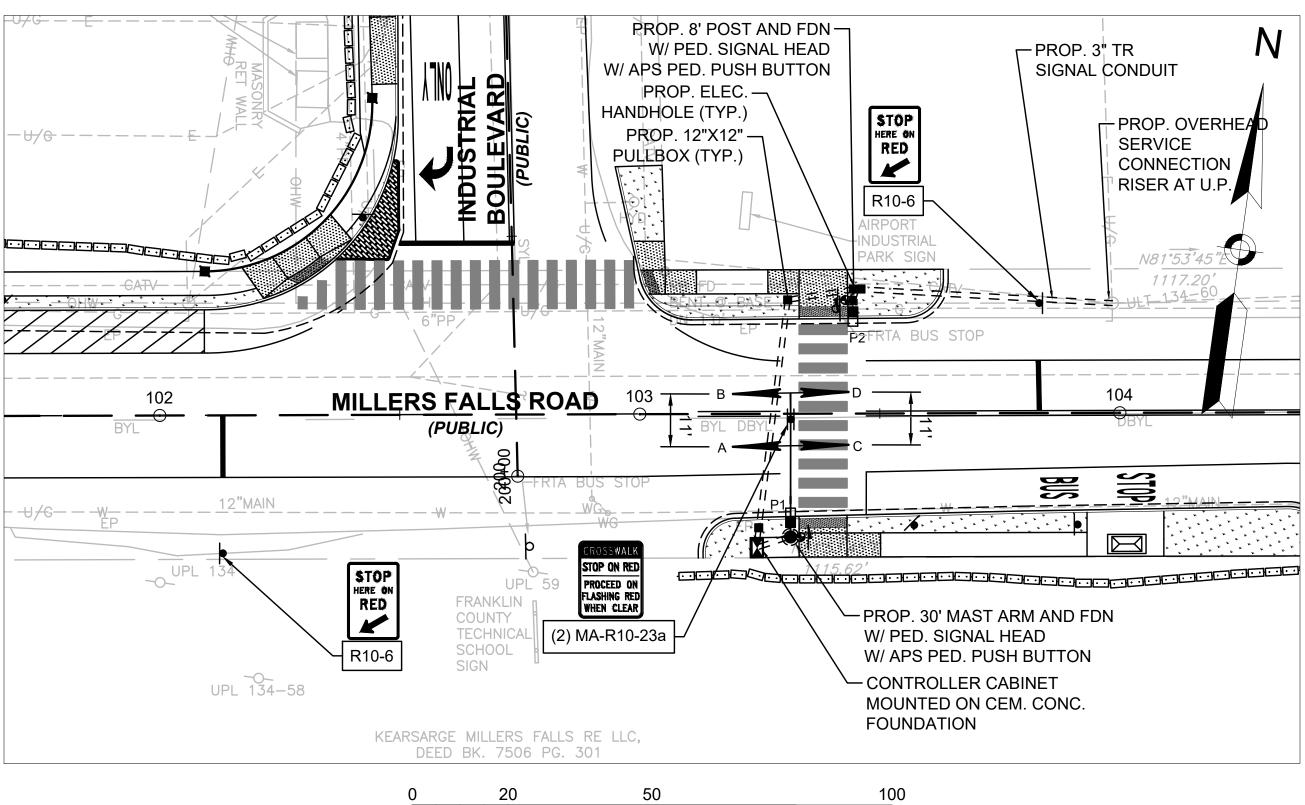
FUSS & O'NEILL

SN SUMMARY SHEET
AL BLVD/MILLERS FALLS RD
P IMPROVEMENTS

TOWN OF MONTA

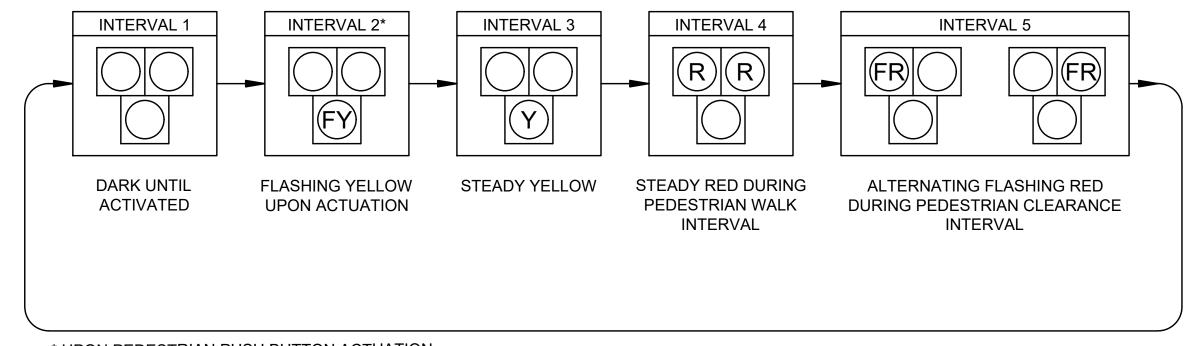
PROJ. No.: 20240059.A10 DATE: AUGUST 2024

HIGH INTENSITY ENCAPSULATED LENS REFLECTIVE SHEETING SHALL BE USED FOR ALL SIGNS. THE 2009
"MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", THE 1990 MDPW "STANDARD DRAWINGS FOR SIGNS AND
SUPPORTS", AND ALL AMENDMENTS WILL GOVERN.



HAWK (PEDESTRIAN) PHASE SEQUENCE

SCALE: 1" = 20'



* UPON PEDESTRIAN PUSH BUTTON ACTUATION

R = STEADY RED

FR = FLASHING RED

Y = STEADY YELLOW FY = FLASHING YELLOW

LEGEND

PROPOSED MAST ARM & POLE

PROPOSED SIGNAL POST

FLASH

FY

FY

OUT

DARK

DARK

DW

A PROPOSED SIGNAL HEAD

PROPOSED PEDESTRIAN HEAD

PROPOSED PEDESTRIAN PUSH BUTTON

PROPOSED 12X12 PULL BOX

==== PROPOSED 3" PVC CONDUIT TYPE NM

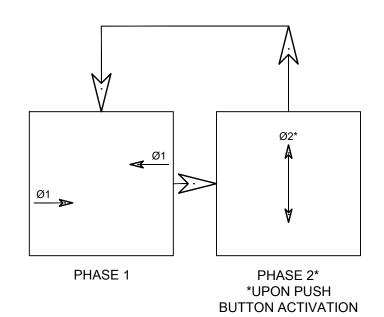
PROPOSED CONTROLLER CABINET

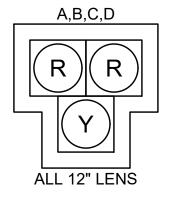
CONSTRUCTION NOTES:

- 1. THE TOP OF ALL MAST ARM FOUNDATIONS IN SIDEWALK AREAS SHALL BE LOCATED FLUSH WITH FINISH GRADE.
- 2. THE TOP OF ALL MAST ARM FOUNDATIONS IN GRASSY AREAS SHALL BE LOCATED 3"± ABOVE FINISHED GRADE.
- 3. TS POST/POLE WITH PEDESTRIAN PUSH BUTTON NOT LOCATED WITHIN A PAVED SURFACE SHALL BE POSITIONED TO PROVIDE A 10" MAX CLEAR REACH ZONE BETWEEN THE PEDESTRIAN PUSH BUTTON AND THE PAVED SURFACE PER 521 CMR AND AS SHOWN IN THE CONSTRUCTION DETAILS.

MAJOR ITEMS REQUIRED PAY ITEM QUANTITY ITEM 804.3 150 3 INCH ELECTRICAL CONDUIT TYPE NM - PLASTIC (UL) 12" X 12" PULL BOX (SD2-031) 811.31 2 ELECTRIC HANDHOLE - SD2.022 811.22 SERVICE CONNECTION SIGNAL POST & BASE STANDARD - 8' INCL FOUNDATION 30' MAST ARM - STEEL, INCL BASE & FOUNDATION 1 SIGNAL HEAD 1 WAY - 3 SECTION 12" LED LENS 16" LED PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN 815.1 ACCESSIBLE PEDESTRIAN SIGNAL WITH PUSHBUTTON, SIGN AND SADDLE TRAFFIC SIGNAL CONTROLLER AND CABINET ENCLOSURE MOUNTED ON CEM. CONC. FOUNDATION PLUS ALL WIRE, CABLE, MOUNTING HARDWARE, EQUIPMENT & MATERIALS NECESSARY TO COMPLETE THE INSTALLATION

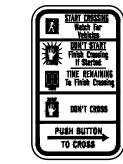
PREFERENTIAL PHASE SEQUENCE







PROPOSED R10-3E



TO BE MOUNTED WITH **EACH PROPOSED** ACCESSIBLE PEDESTRIAN SIGNAL

PROPOSED SIGNAL INDICATIONS

ALL SIGNAL HEADS SHALL BE RIGID MOUNTED & EQUIPPED WITH CAP VISORS AND ±5" NON-LOUVERED BACKPLATES WITH 3" YELLOW REFLECTIVE BORDERS.

****ALL PROPOSED MAST ARMS, SIGNAL POSTS, BASES, BACKPLATES, AND BRACKETS SHALL BE FACTORY COATED BLACK****

ACCESSIBLE PEDESTRIAN SIGNALS (APS):

ALL PROPOSED ACCESSIBLE PEDESTRIAN SIGNALS MUST FULLY COMPLY WITH THE UNITED STATES ACCESS BOARD PROWAG SUPPLEMENTAL TECHNICAL REQUIREMENTS UNDER CHAPTER 4. THIS INCLUDES OPERABLE PARTS (R403), CLEAR SPACES (R404), AND REACH RANGES (R406) AS RELATES TO ACCESSIBLE PEDESTRIAN SIGNALS AND PEDESTRIAN PUSH BUTTONS.

ACCESSIBLE PEDESTRIAN SIGNALS (APS) SPEECH **MESSAGE NOTE:**

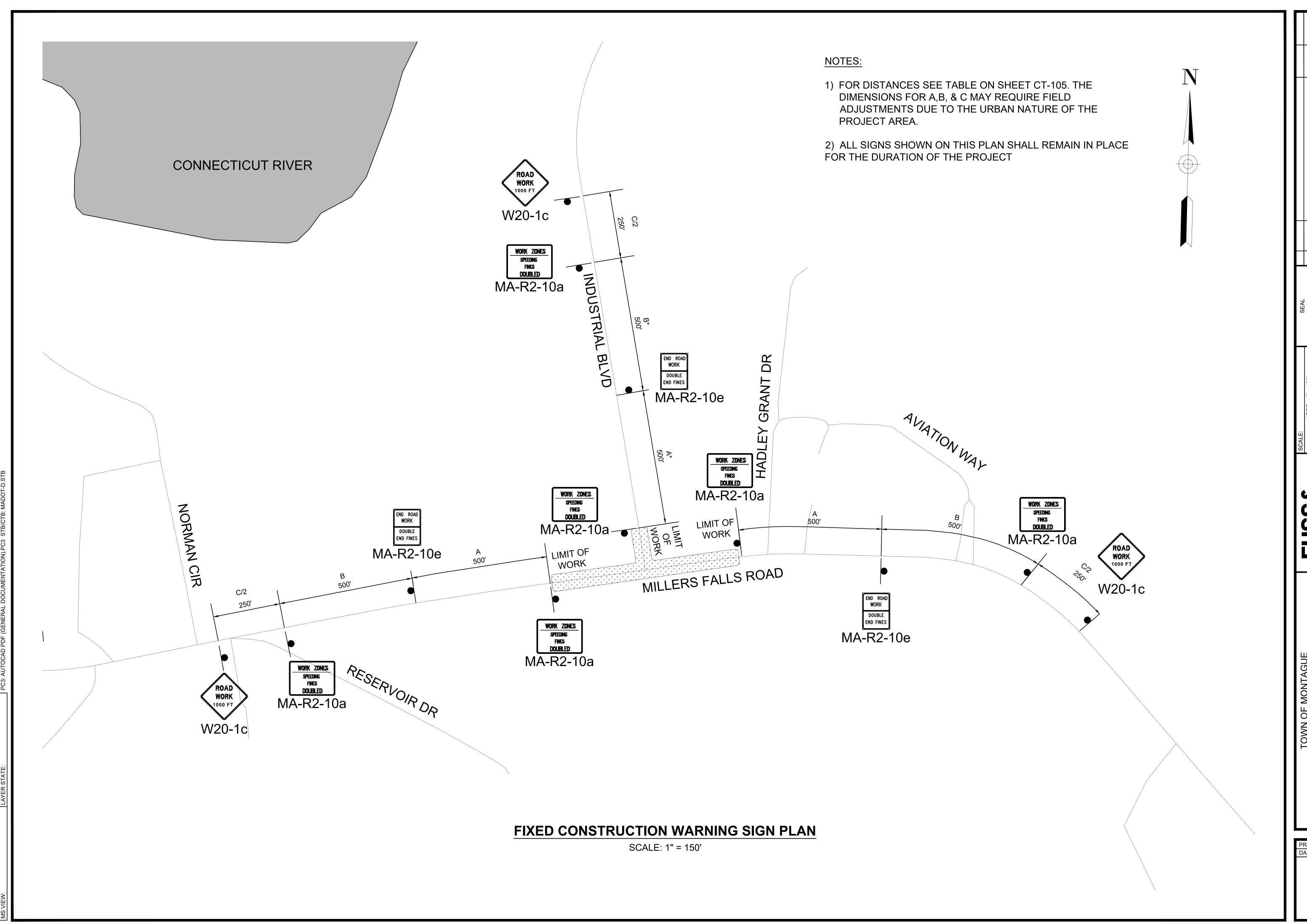
ALL PUSH BUTTONS AT THIS INTERSECTION SHALL BE PROGRAMMED WITH THE APPROPRIATE SPEECH MESSAGE FOR WALK INDICATING THE STREET CROSSING.

ISS&

BLVD/MILLERS FINPROVEMENTS

INDUSTRIAL BUS STOP I

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



No. DATE DESCRIPTION DESIGNER REVIEW

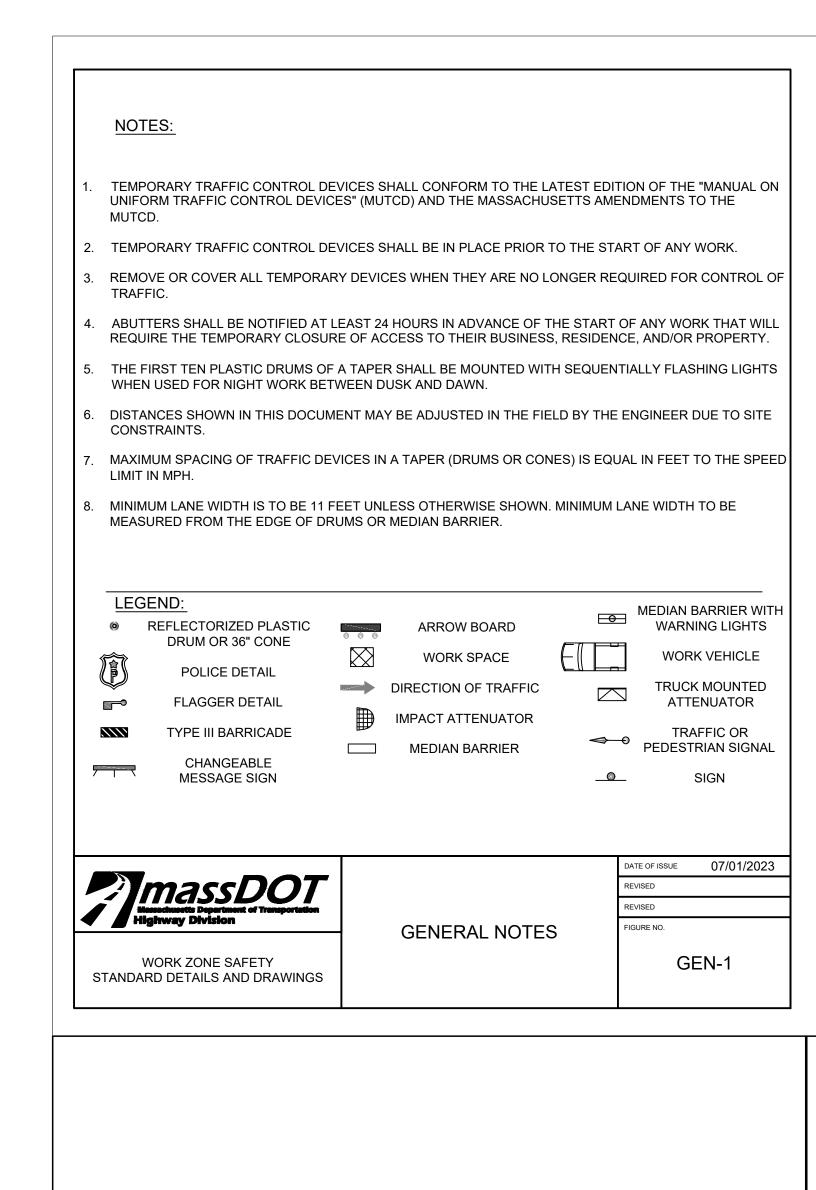
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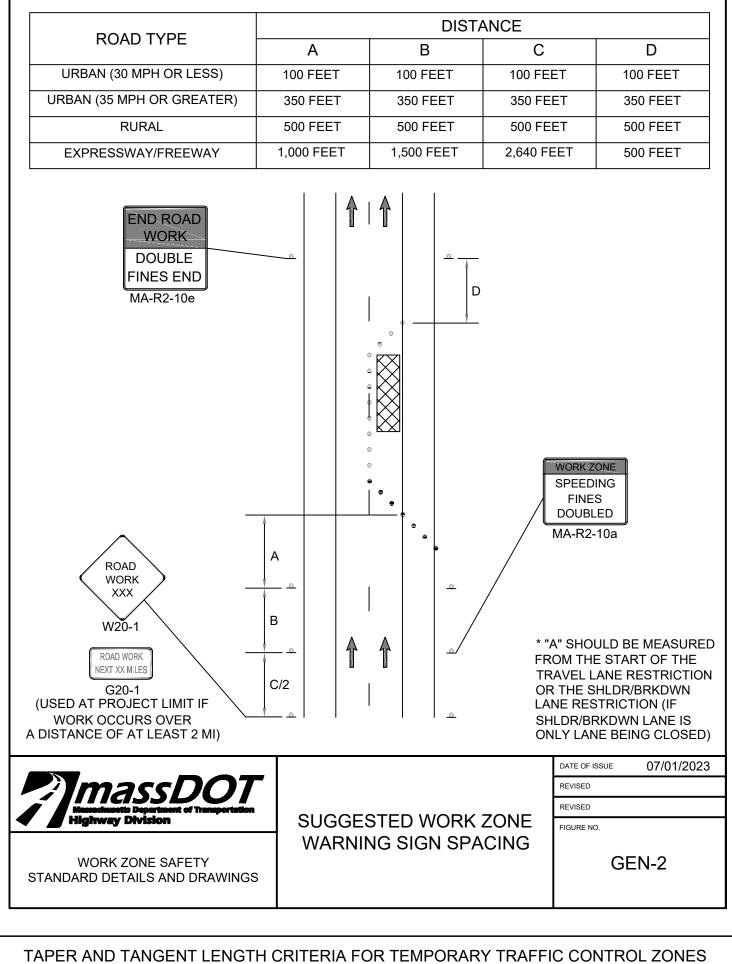
HORZ::
VERT::
VERT::
0 125' 150' 300'

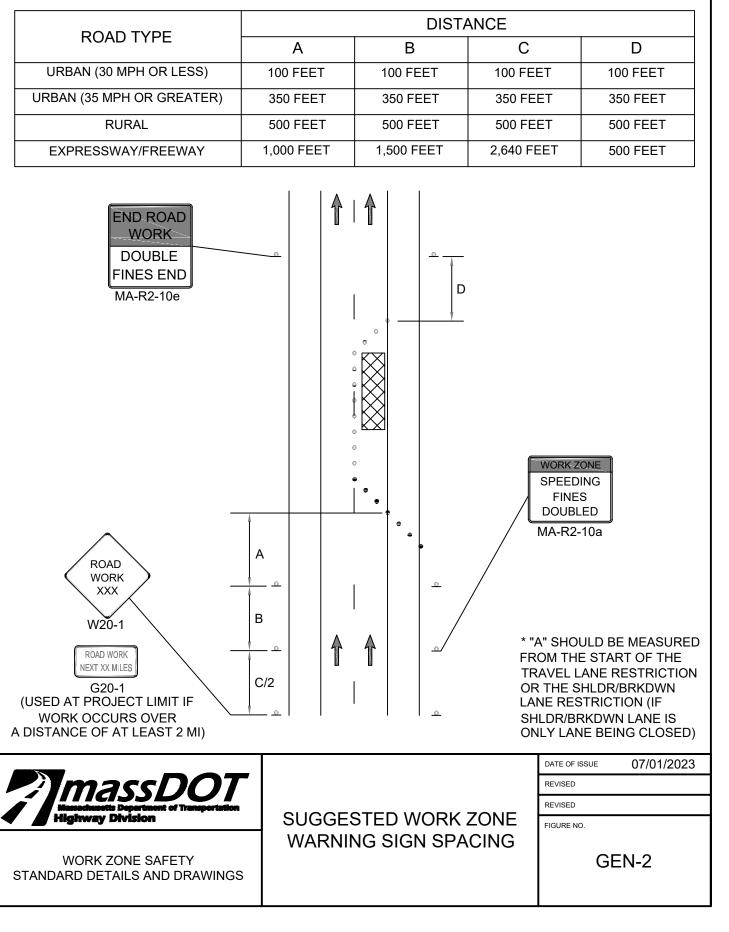
FUSS & O'NET AND SPRINGFIELD, MA 01103

AFFIC MANAGEMENT PLANS
USTRIAL BLVD/MILLERS FALLS RD

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







* ", FR TR OF LA SH	WORK ZONE SPEEDING FINES DOUBLED MA-R2-10a A" SHOULD BE MEASURED OM THE START OF THE RAVEL LANE RESTRICTION R THE SHLDR/BRKDWN NE RESTRICTION (IF BLDR/BRKDWN LANE IS BLY LANE BEING CLOSED)	*POSTED SPEED, OFF-OPERATING SPEED THESE VALUES MAY B THE DISTANCES IN THE	E USED TO DETER	SPEED* (mph) 20 25 30 35 40 45 50 55 60 65 70 75 ENTILE SPEE	DIS DIS DIS DIS DISTRICT DISTR	STANCE (ft) 115 155 200 250 305 360 425 495 570 645 730 820 FO WORK STA	ARTING, O	OR THE ANTICIPATED FER SPACES. FER SPACING.	
ESTED WORK ZONE IING SIGN SPACING	DATE OF ISSUE 07/01/2023 REVISED REVISED FIGURE NO. GEN-2	WORK ZONE S STANDARD DETAILS A	AFETY	ZON STOPPII	NE CAP. NG SIG	ERAGE W ACITIES & HT DISTA ON OF SP	, NCE	DATE OF ISSUE 07/01/2023 REVISED REVISED FIGURE NO. GEN-3	
FOR TEMPORARY TRAFFI									
LENGTH									
AT LEAST				1 1					
AT LEAST 0									
50 FT MIN. 100 F									
50 FT MIN. 100 FT MAX	K. PER LANE								
AT LEAST 2	PL	_				<u> </u>	n^	WNSTREAM TAPER	
* Use Table 6C-4 to o ** Tangent Length Measured E	calculate L Between Two Tapers							WING FILE AND FIXE EXC	
MINING TAPER LENGTHS	3	TERMINATION AREA:						ATERAL BUEFFR OF ACE	
TAPER LENGTH (L) IN FEET		LETS TRAFFIC RESUME NORMAL OPERATIONS						ATERAL BUFFER SPACE	
L= WS2 60		_						- LONGITUDINAL BUFFER SPACE: PROVIDES PROTECTION FOR	

MEASURED AVERAGE WORK ZONE CAPACITIES

THE IDEAL CAPACITY OF A MAJOR HIGHWAY IS GENERALLY CONSIDERED TO BE 1900 PASSENGER CARS PER

HOUR PER LANE (PCPHPL). IN WORK ZONES ON A MULTI-LANE DIVIDED HIGHWAY, THE FOLLOWING VOLUME

GUIDELINES HAVE BEEN SUGGESTED:

AVERAGE CAPACITY

VEHICLES PER

1.170

1,340

2,980

4,560

VEHICLES PER

HOUR PER

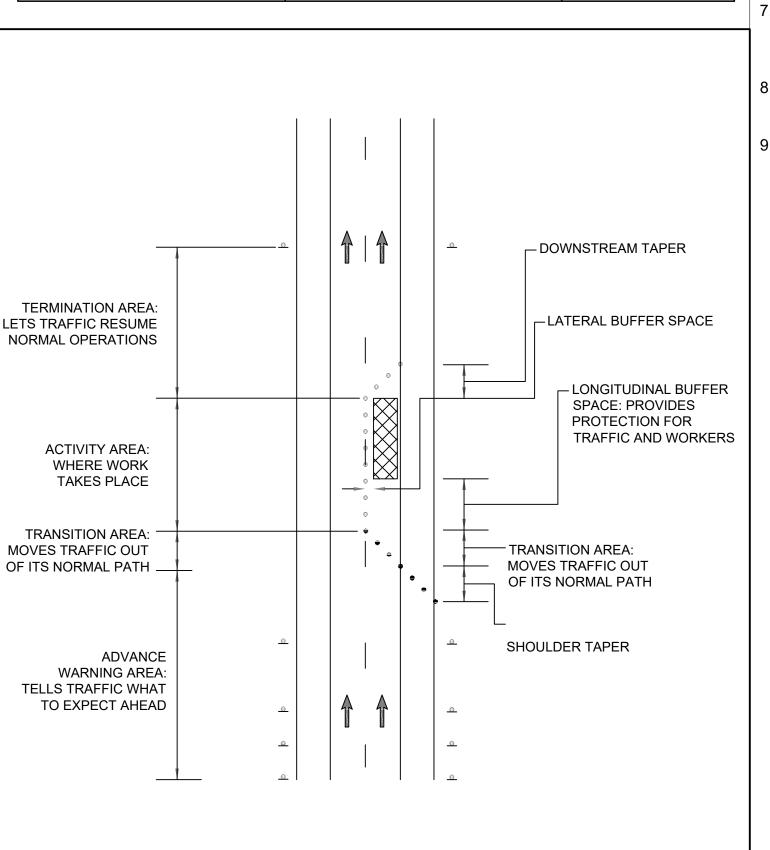
1,340 1,370 1.480

1,490

NUMBER OF LANES

(TO TRAFFIC)

(EXISTING)



GENERAL NOTES:

- ONE LANE OF TRAFFIC SHALL BE MAINTAINED AS OPEN IN EACH APPROACH DIRECTION AT ALL TIMES. THE CONTRACTOR MAY DEPLOY LANE SHIFTS. NO DETOURS ARE ANTICIPATED TO BE NEEDED. ANY PROPOSED DETOUR MUST BE APPROVED BY THE ENGINEER AND TOWN OF MONTAGUE.
- 2. ALL TRAFFIC MANAGEMENT CONFIGURATIONS SHALL CONFORM TO THE STANDARD MassDOT DETAILS ON THE FOLLOWING SHEETS AND APPLY TO ALL LOCATIONS INCLUDED IN THE CONTRACT.
- 3. THE CONTRACTOR SHALL BE PERMITTED TO PERFORM TEMPORARY ROADWAY OR LANE CLOSURES FROM 7:00 A.M. TO 3:30 P.M. CHANGES TO THESE TIMES REQUIRE APPROVAL FROM THE TOWN OF MONTAGUE.
- ALL TRENCHES IN THE ROADWAY SHALL EITHER BE BACKFILLED AND PATCHED WITH HOT MIX ASPHALT, COVERED WITH BEVELED EDGES STEEL PLATES, OR HOT MIX ASPHALT AROUND STEEL PLATES BEFORE REOPENING THE ROADWAY TO TRAFFIC. UNBEVELED STEEL PLATE MAY BE USED IF HMA WEDGES ARE PLACED IN ACCORDANCE WITH THE LONGITUDINAL DROP OFF DETAIL.
- 5. COVER ALL EXISTING SIGNAGE THAT CONFLICTS WITH THE TRAFFIC MANAGEMENT SETUP IN PLACE.
- PORTABLE CHANGEABLE MESSAGE BOARDS (PCMB) SHALL BE USED ON THE PROJECT SITE; THESE SIGNS SHALL ADVISE MOTORISTS TO EXPECT DELAYS, AND ADVISE TRAILER TRUCKS OF RESTRICTED LANE WIDTHS (AND POSSIBLE DETOUR ROUTES) ON SPECIFIC APPROACHES DURING CERTAIN STAGES OF CONSTRUCTION.
- 7. THE CONTRACTOR SHALL PLACE TWO PORTABLE CHANGEABLE MESSAGE BOARDS (PCMB) ON THE PROJECT SITE, FOR SEVEN DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- ALL ADVANCED SIGNAGE SHALL REMAIN IN PLACE FOR THE DURATION OF THE PROJECT.
- IF FLAGGERS ARE USED FOR TRAFFIC CONTROL, THE FLAGGER SIGN (W20-7a) SHALL BE SUBSTITUTED FOR THE POLICE OFFICER AHEAD (W20-7b) SIGN.

VARIABLES	DEFINITION
А	WORK ZONE WARNING SIGN SPACING (SEE SHEET GEN-2
В	WORK ZONE WARNING SIGN SPACING (SEE SHEET GEN-2
С	WORK ZONE WARNING SIGN SPACING (SEE SHEET GEN-2
D	WORK ZONE WARNING SIGN SPACING (SEE SHEET GEN-2
L	LENGTH IN FEET
S	SPEED LIMIT
W	WIDTH OF OFFSET IN FEET
Т	TANGENT LENGTH, AT LEAST 2L

Source: Table 6	6C-4 MUTCD LATEST EDIT	ΓΙΟΝ				
		TYPICAL T	APER LENG	THS (L)		
	SPEED (S)	V	VIDTH OF OFF	SET (W) IN	FT.	
	IN MPH	9	10	11	12	
	25 OR BELOW	95	105	115	125	
	30	135	150	165	180	
	35	185	205	225	245	
	40	240	270	295	320	
	45	405	450	495	540	
	50	450	500	550	600	
	55	495	550	605	660	
	60	540	600	660	720	
	65	585	650	715	780	
	70	630	700	770	840	

FORMULAS FOR DETERMINING TAPER LENGTHS

L= WS

SPEED (S)

40 MPH OR LESS

45 MPH OR MORE

W = WIDTH OF OFFSET IN FEET

WHERE: L = TAPER LENGTH IN FEET

Messechusetts Department of Transportation Highway Division TAPER GUIDANCE GEN-6 WORK ZONE SAFETY STANDARD DETAILS AND DRAWINGS

Massechusetts Department of Transportation Highway Division WORK ZONE SAFETY STANDARD DETAILS AND DRAWINGS

07/01/2023 DATE OF ISSUE TYPICAL COMPONENTS OF A TEMPORARY TRAFFIC **CONTROL SETUP** GEN-7

Massechusetts Department of Transportation
Highway Division WORK ZONE SAFETY STANDARD DETAILS AND DRAWINGS

ABBREVIATIONS

DATE OF ISSUE

IGURE NO.

07/01/2023 GEN-4

MERGING TAPER

SHIFTING TAPER

SHOULDER TAPER

ONE-LANE, TWO-WAY TRAFFIC TAPER

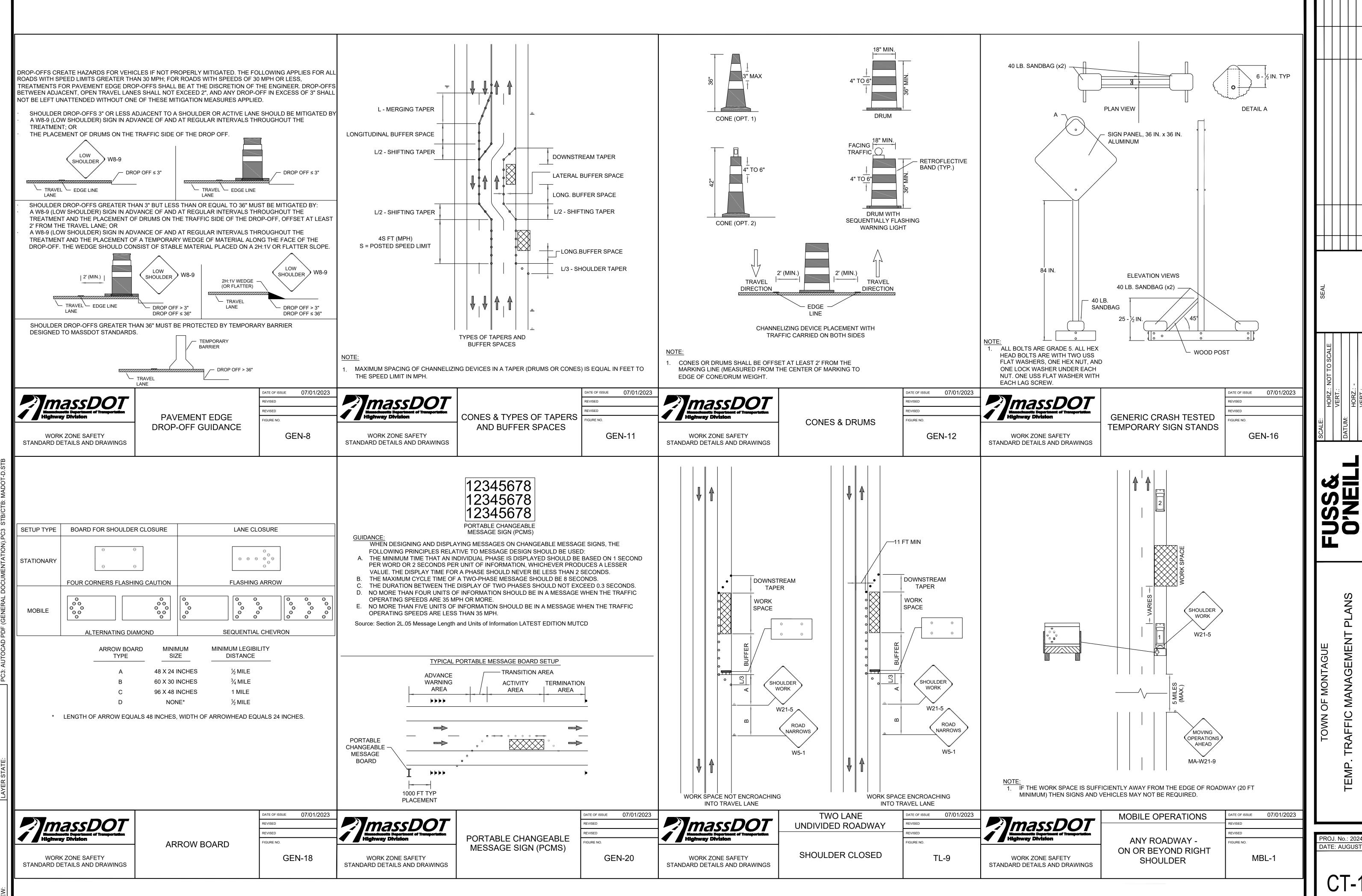
DOWNSTREAM TAPER

TANGENT LENGTH**

Source: Table 6C-3 MUTCD LATEST EDITION

ISS&

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



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

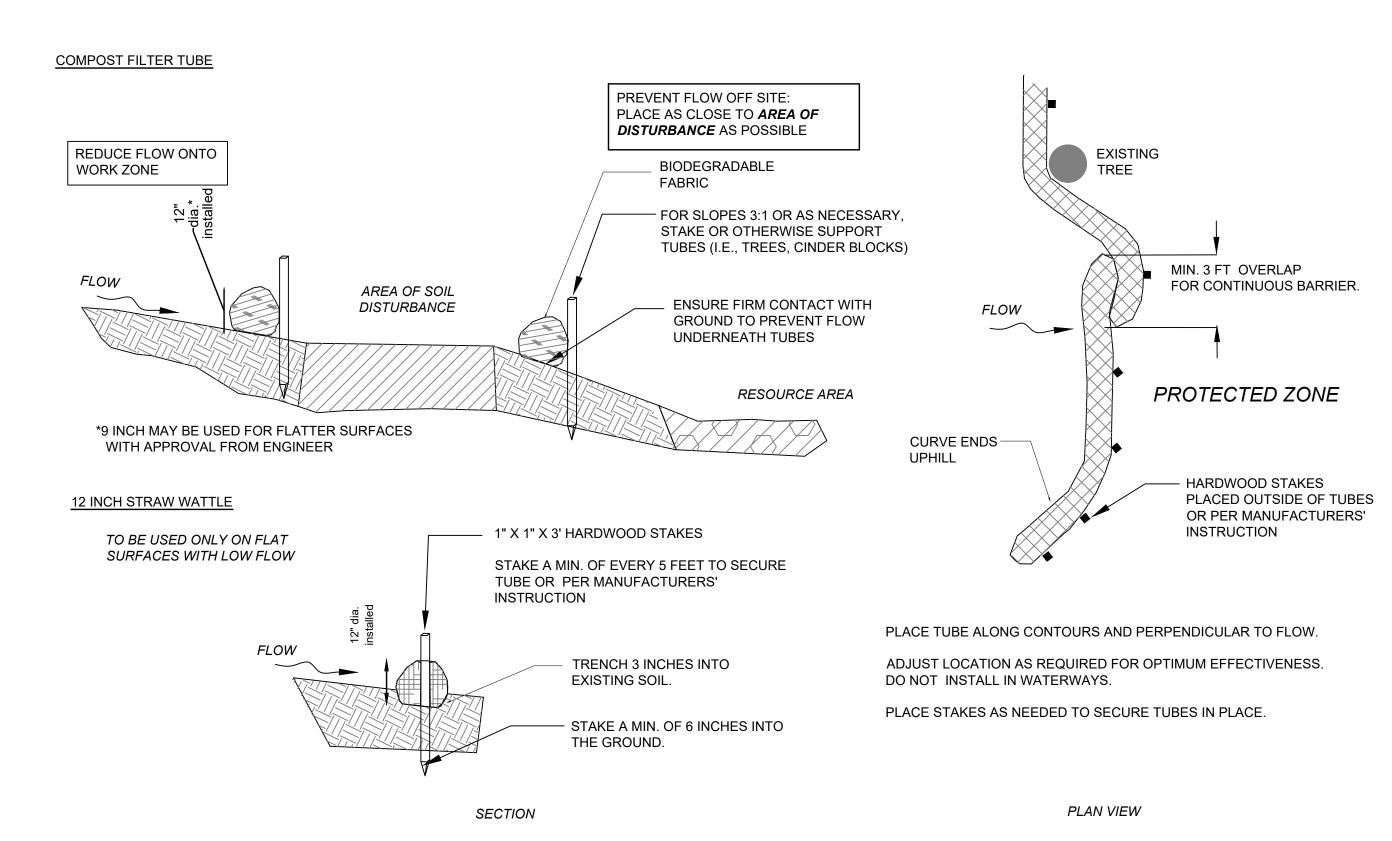
TYPICAL CONSTRUCTION SIGNING

N.T.S.

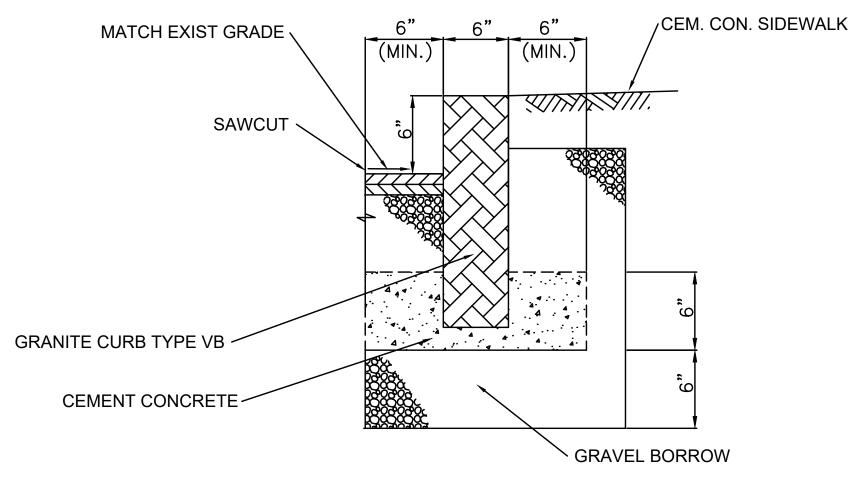
IDENTIFI-	SIZE O	F SIGN		TEX	T DIMEN	TEXT DIMENSIONS (in) COLOR		SIGN FACE	ESTIMATED			
CATION NUMBER	WIDTH (IN)	HEIGHT (IN)	TEXT	LETTER HEIGHT	VERTI SPAC	ICAL ING	ARROW RTE. MKR	BACK- GROUND	LEGEND	BORDER	AREA (S.F.)	QTY
MA-R2-10a	48	36	WORK ZONES SPEEDING FINES DOUBLED		EE MassE IDARD S			FLOUR. ORANGE WHITE	BLACK	BLACK	12.00	6
MA-R2-10e	36	48	END ROAD WORK DOUBLE FINES END					FLOUR. ORANGE WHITE	BLACK	BLACK	12.00	3
MA-W21-9	36	36	MOVING OPERATIONS AHEAD		V		V	FLOUR. ORANGE	BLACK	BLACK	9.00	2
W20-1c	36	36	ROAD WORK 1000 FT	HIGHV 20	HWA 200 VAY SIGI 012 SUPI NGLISH	NS MA PLEME	NUAL & ENT	FLOUR. ORANGE	BLACK	BLACK	9.00	3
W21-5	36	36	SHOULDER					FLOUR. ORANGE	BLACK	BLACK	9.00	2
W5-1	36	36	ROAD					FLOUR. ORANGE	BLACK	BLACK	9.00	3
W8-9	36	36	LOW SHOULDER					FLOUR. ORANGE	BLACK	BLACK	9.00	2

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



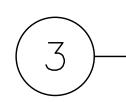


SEDIMENT BARRIERS - COMPOST FILTER TUBES SCALE: N.T.S.



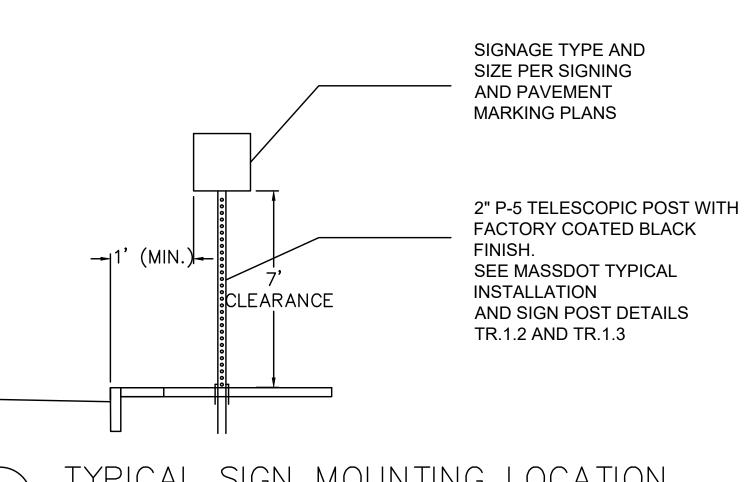
NOTES:

- 1. LENGTH OF CURB VARIES TO FIT RADIUS. 2 FT. MIN.
- 2. ENDS SHALL BE SQUARE TO TOP AND RADIAL TO FACE.
- 3. BUTT ENDS TOGETHER AS CLOSE AS POSSIBLE. MAXIMUM SPACE OF 1/2" ALLOWED. 8" DOWN FROM TOP. JOINT SHALL BE MORTARED FULL DEPTH.
- 4. 1/2" EXPANSION JOINT EVERY 50± FEET.
- 5. CURBS TO BE SET ON A RADIUS OF 100 FEET OR LESS SHALL BE CUT TO THE CURVE REQUIRED, AND THEIR ENDS CUT ON RADIAL LINES.
- 6. SAWCUT SHALL BE 6" FROM THE PROPOSED FACE OF CURB.

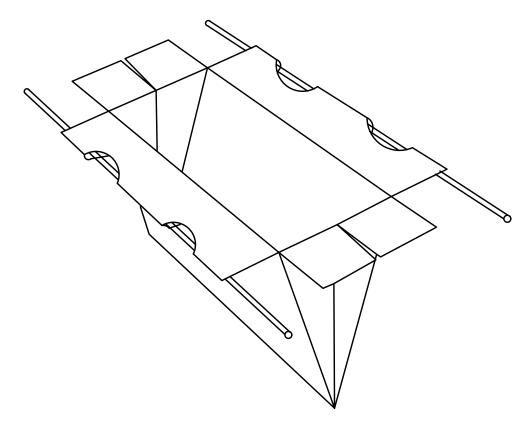


GRANITE CURB

SCALE: N.T.S.



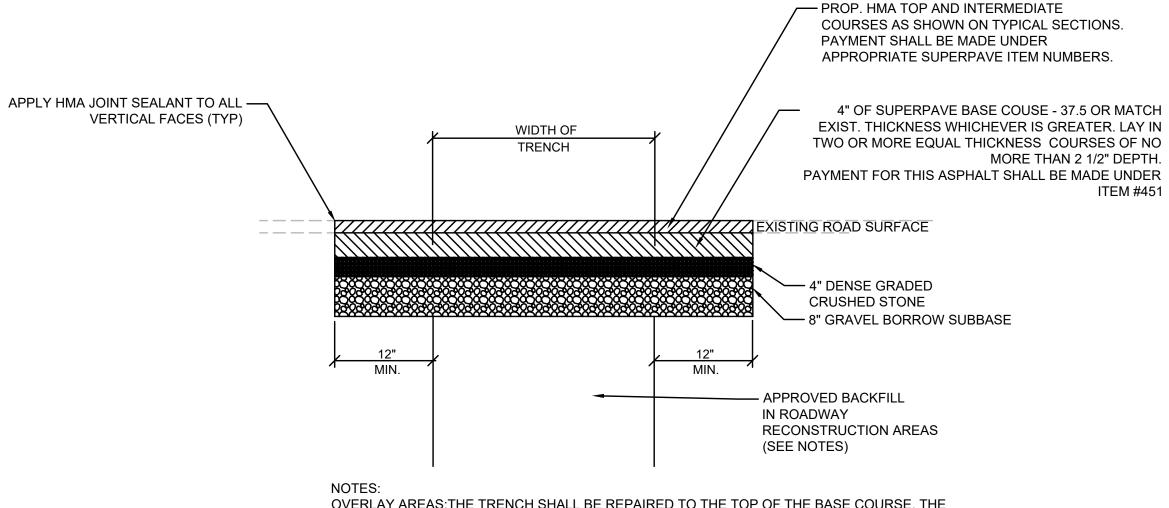
TYPICAL SIGN MOUNTING LOCATION SCALE: N.T.S.



NOTES:

- 1. SIZED TO FIT ANY SIZE OR SHAPE CATCH BASIN.
- 2. ALL SEAMS DOUBLE STITCHED.
- 3. PERMEABILITY REGULAR FLOW SILTSACK 40 gal./min./sq. ft. HI - FLOW SILTSACK - 200 gal./min./sq. ft.





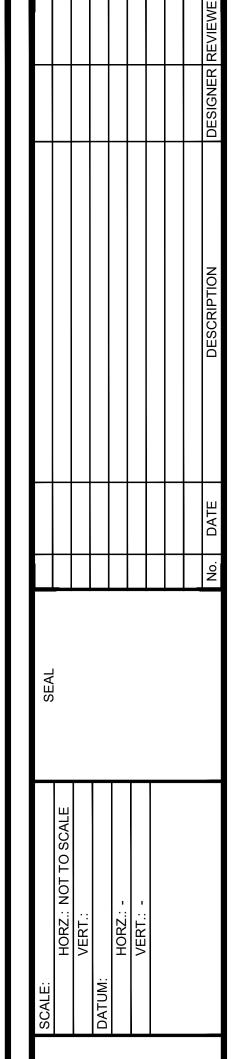
OVERLAY AREAS: THE TRENCH SHALL BE REPAIRED TO THE TOP OF THE BASE COURSE. THE TOP COURSES SHALL BE PLACED WITH OVERLAY OF THE ROADWAY

ROADWAY TRENCHING OUTSIDE OF FULL DEPTH AND OVERLAY: THE TRENCH SHALL BE REPAIRED WITH TOP COURSES INSTALLED WITH THE BASE COURSE.

CONTROLLED DENSITY FILL MAY BE USED IN LIEU OF APPROVED BACKFILL IN PAVEMENT MILLING AND OVERLAY AREAS. **USE OF CONTROLLED DENSITY FILL TO BACKFILL TRENCHES** SHALL BE APPROVED BY THE TOWN OF MONTAGUE PRIOR TO PLACEMENT.

PERMANENT ASHPALT SHALL BE PAID FOR UNDER ITEM #451.





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

CD-501

STANDARD CONCRETE SIDEWALK-NO REINFORCEMENT

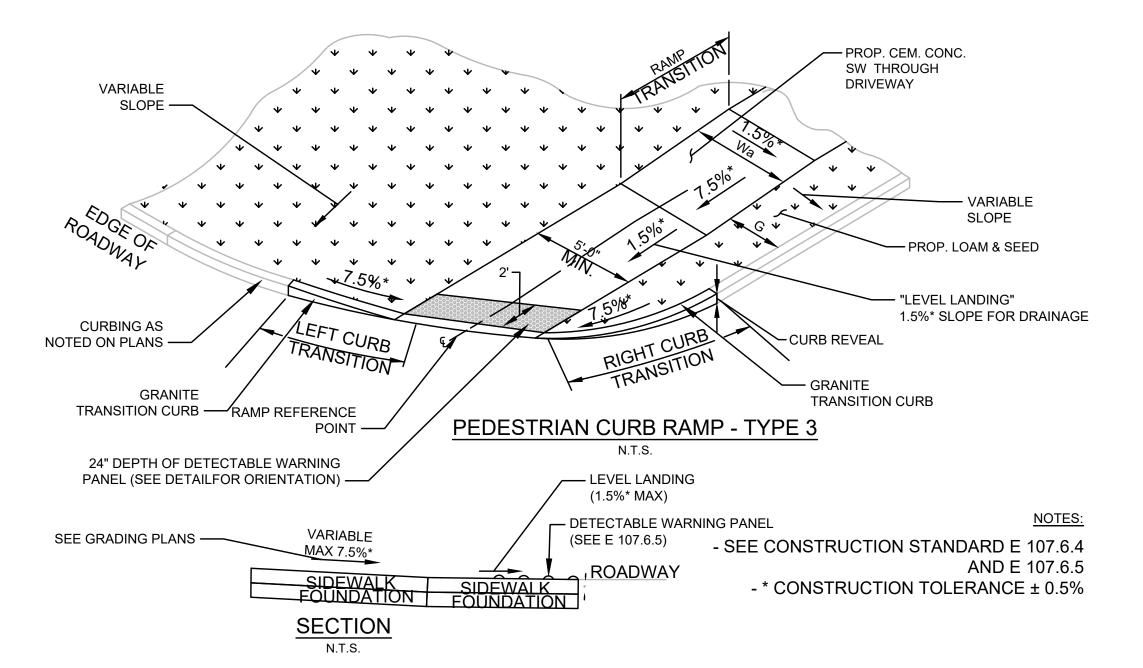
SCALE: N.T.S.

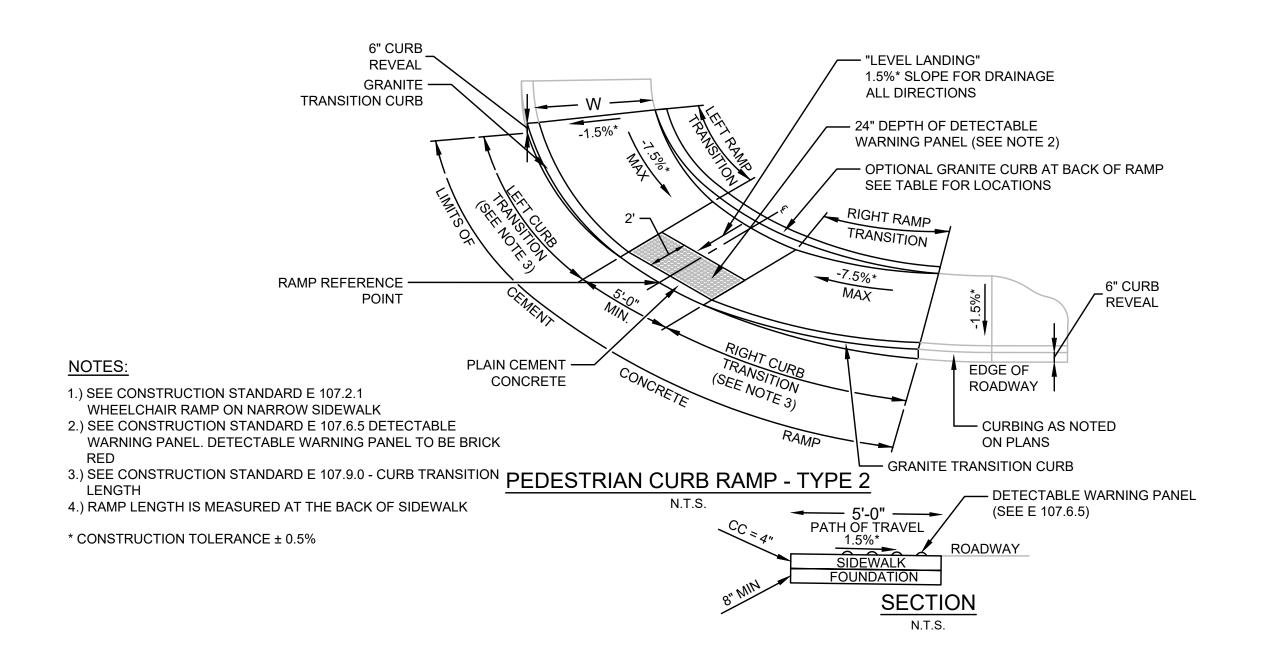
SECTION A-A 1/4" CLEAR ACRYLIC GLAZING (TYP.) QUANTITY (2) SHELTERS THUS: SPECIFICATIONS: DARK BRONZE ANODIZED ALUMINUM FINISH 1/4" CLEAR ACRYLIC GLAZING AND HORIZONTAL MULLION STANDING SEAM HIP ROOF (BLACK) 6" FASCIA WITH INTEGRAL GUTTER SYSTEM 5' WALL MOUNT BENCH WITH BACKREST

PEDESTRIAN BUS SHELTER SCALE: N.T.S.

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

CD-502





SCALE

SCALE

No. Date Description Designer Reviewer

SCALE:

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VERT::

DATUM:

HORZ::
VERT:: -

TUSS MAIN STREET, SUITE 400

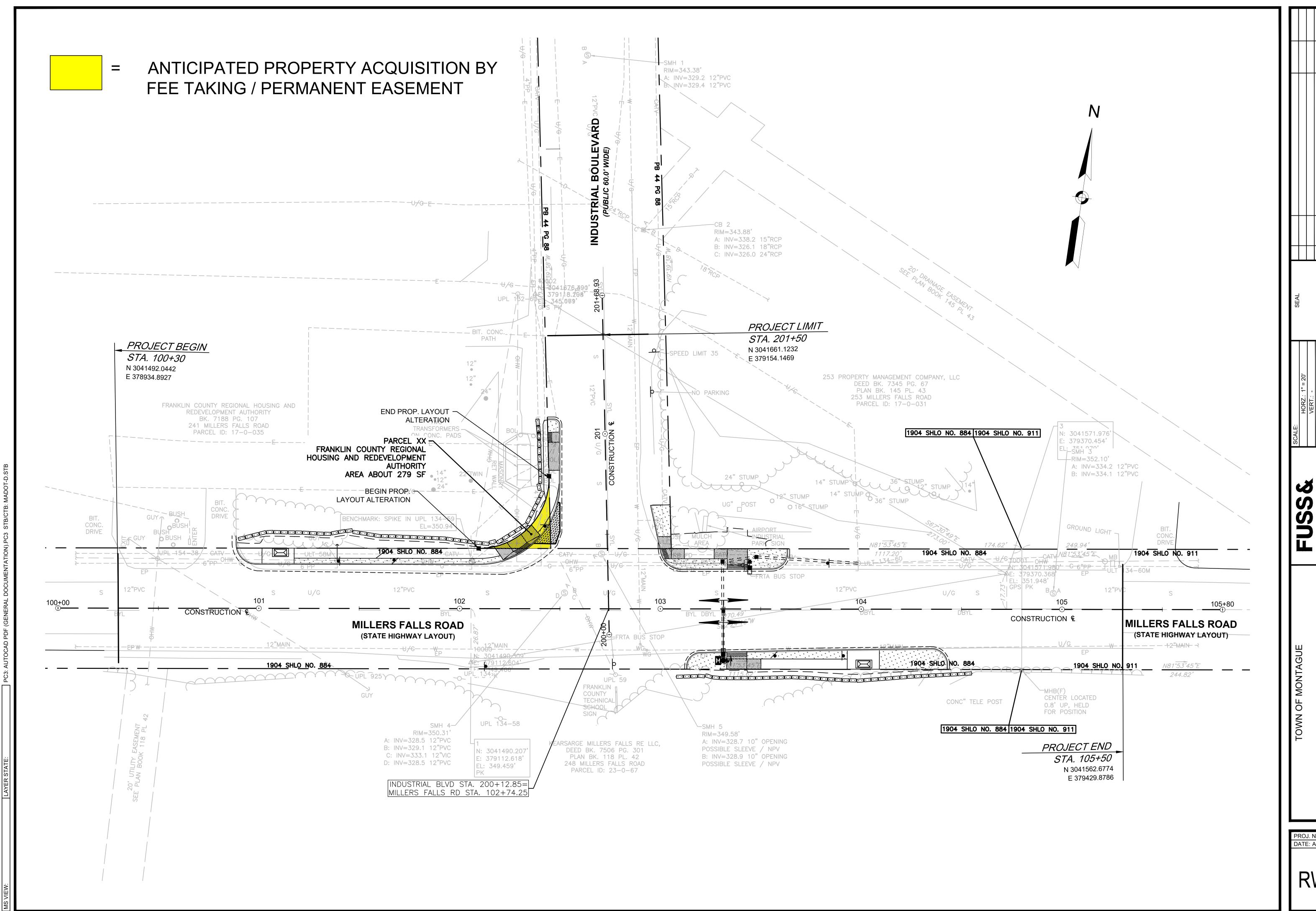
CURB RAMP DETAILS

L BLVD/MILLERS FALLS RD
PIMPROVEMENTS

PEDESTRIAN CURB RA FRTA – INDUSTRIAL BLVD/MI

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

CD-503



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JOURNAL SUITE 400 SPRINGFIELD, MA 01103

ICIPATED ROW OF IMPACT

DUSTRIAL BLVD/MILLERS FALLS RD

PROJ. No.: 20240059.A10

DATE: AUGUST 2024

RW-101

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



FRTA – Industrial Blvd/Millers Falls Rd Bus Stop Improvements Montague, MA Preliminary Design Estimate 9/11/2024

ALTERNATIVE #1 OVERHEAD RRFB W/ SIMME SEATS

ITEM NO.	PART. QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	PART. COST	TOTAL
100	1	LS	SCHEDULE OF OPERATIONS - FIXED PRICE \$7000	\$7,000.00	\$7,000.00	\$7,000
102.1	0	FT	TREE TRIMMING	\$14.25	\$0.00	\$0
120.	70	CY	EARTH EXCAVATION	\$40.00	\$2,800.00	\$2,800
141.101*	10	CY	TEST PIT FOR EXPLORATION-VACUUM TRUCK	\$250.00	\$2,500.00	\$2,500
151.	50	CY	GRAVEL BORROW	\$66.75	\$3,337.50	\$3,338
170.	225	SY	FINE GRADING AND COMPACTING - SUBGRADE AREA	\$6.00	\$1,350.00	\$1,350
450.22	7	TON	SUPERPAVE SURFACE COURSE - 9.5 (SSC - 9.5)	\$320.00	\$2,240.00	\$2,240
450.23	7	TON	SUPERPAVE SURFACE COURSE - 12.5 (SSC - 12.5)	\$267.82	\$1,874.74	\$1,875
482.3	210	FT	SAWCUTTING ASPHALT PAVEMENT	\$5.50	\$1,155.00	\$1,155
506.	310	FT	GRANITE CURB TYPE VB - STRAIGHT	\$117.50	\$36,425.00	\$36,425
506.1	80	FT	GRANITE CURB TYPE VB - CURVED	\$145.00	\$11,600.00	\$11,600
509.	40	FT	GRANITE TRANSITION CURB FOR PEDESTRIAN CURB RAMPS - STRAIGHT	\$96.00	\$3,840.00	\$3,840
509.1	50	FT	GRANITE TRANSITION CURB FOR PEDESTRIAN CURB RAMPS - CURVED	\$118.00	\$5,900.00	\$5,900
697.1	1	EA	SILT SACK	\$165.00	\$165.00	\$165
701.*	150	SY	CEMENT CONCRETE SIDEWALK	\$85.00	\$12,750.00	\$12,750
701.2*	70	SY	CEMENT CONCRETE PEDESTRIAN CURB RAMP	\$140.00	\$9,800.00	\$9,800
701.3	15	SY	STAMPED & COLORED CEMENT CONCRETE	\$105.00	\$1,575.00	\$1,575
745.01	2	EA	SIMME SEAT BENCH	\$2,000.00	\$4,000.00	\$4,000
748.	1	LS	MOBILIZATION	\$5,968.68	\$5,968.68	\$5,969
751.	50	CY	LOAM FOR ROADSIDES	\$120.00	\$6,000.00	\$6,000
756.*	1	LS	NPDES STORMWATER POLLUTION PREVENTION PLAN	\$10,500.00	\$10,500.00	\$10,500
765.	200	SY	SEEDING	\$2.00	\$400.00	\$400
767.121	370	FT	SEDIMENT CONTROL BARRIER	\$6.50	\$2,405.00	\$2,405
815.1	1	LS	TRAFFIC CONTROL SIGNAL LOCATION NO. 1- OVERHEAD RRFB	\$30,000.00	\$30,000.00	\$30,000
832.	50	SF	WARNING-REGULATORY AND ROUTE MARKER - ALUMINUM PANEL (TYPE A)	\$22.50	\$1,125.00	\$1,125
847.12*	7	EA	SIGN SUP (N/GUIDE)+RTE MKR W/1 BRKWAY POST ASSEMBLY - STEEL (BLACK)	\$250.00	\$1,750.00	\$1,750
851.1	70	DAY	TRAFFIC CONES FOR TRAFFIC MANAGEMENT	\$125.00	\$8,750.00	\$8,750
852.	220	SF	SAFETY SIGNING FOR TRAFFIC MANAGEMENT	\$30.00	\$6,600.00	\$6,600
854.1	740	SF	PAVEMENT MARKING REMOVAL	\$3.05	\$2,257.00	\$2,257
856.	120	DAY	ARROW BOARD	\$17.00	\$2,040.00	\$2,040
856.12	120	DAY	PORTABLE CHANGEABLE MESSAGE SIGN	\$30.00	\$3,600.00	\$3,600
859.	2,921	DAY	REFLECTORIZED DRUM	\$1.00	\$2,921.00	\$2,921
864.04	200	SF	PAVEMENT ARROWS AND LEGENDS REFLECTORIZED WHITE (THERMOPLASTIC)	\$8.40	\$1,680.00	\$1,680
865.*	560	SF	CROSS WALKS REFLECTORIZED WHITE (THERMOPLASTIC)	\$7.00	\$3,920.00	\$3,920
866.106	1,800	FT	6 INCH REFLECTORIZED WHITE LINE (THERMOPLASTIC)	\$2.15	\$3,870.00	\$3,870
866.112	50	FT	12 INCH REFLECTORIZED WHITE LINE (THERMOPLASTIC)	\$6.85	\$342.50	\$343
867.106	700	FT	6 INCH REFLECTORIZED YELLOW LINE (THERMOPLASTIC)	\$2.18	\$1,526.00	\$1,526
874.	2	EA	STREET NAME SIGN	\$170.00	\$340.00	\$340
874.2	2	EA	TRAFFIC SIGN REMOVED AND RESET	\$265.09	\$530.18	\$530
874.4	1	EA	TRAFFIC SIGN REMOVED AND STACKED	\$87.00	\$87.00	\$87
U			The second control of	Subtotal:	\$204,925	\$204,925
Perliminary Co Estimate Prepa	onstruction Cost ared For:			Uniformed Traffic Officer Control:	\$10,246	\$10,246
				10% Construction Contingency:	\$20,492	\$20,492

Grand Total:

\$235,663

\$235,663

RTA

FUSS & O'NEILL



FRTA – Industrial Blvd/Millers Falls Rd Bus Stop Improvements Montague, MA Preliminary Design Estimate

9/11/2024 ALTERNATIVE #2 OVERHEAD RRFB W/ BUS SHELTERS

ITEM NO.	PART. QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL
100	1	LS	SCHEDULE OF OPERATIONS - FIXED PRICE \$7000	\$7,000.00	\$7,000
102.1	0	FT	TREE TRIMMING	\$14.25	\$0
120.	70	CY	EARTH EXCAVATION	\$40.00	\$2,800
141.101*	10	CY	TEST PIT FOR EXPLORATION-VACUUM TRUCK	\$250.00	\$2,500
151.	50	CY	GRAVEL BORROW	\$66.75	\$3,338
170.	225	SY	FINE GRADING AND COMPACTING - SUBGRADE AREA	\$6.00	\$1,350
450.22	7	TON	SUPERPAVE SURFACE COURSE - 9.5 (SSC - 9.5)	\$320.00	\$2,240
450.23	7	TON	SUPERPAVE SURFACE COURSE - 12.5 (SSC - 12.5)	\$267.82	\$1,875
482.3	210	FT	SAWCUTTING ASPHALT PAVEMENT	\$5.50	\$1,155
506.	310	FT	GRANITE CURB TYPE VB - STRAIGHT	\$117.50	\$36,425
506.1	80	FT	GRANITE CURB TYPE VB - CURVED	\$145.00	\$11,600
509.	40	FT	GRANITE TRANSITION CURB FOR PEDESTRIAN CURB RAMPS - STRAIGHT	\$96.00	\$3,840
509.1	50	FT	GRANITE TRANSITION CURB FOR PEDESTRIAN CURB RAMPS - CURVED	\$118.00	\$5,900
697.1	1	EA	SILT SACK	\$165.00	\$165
701.*	150	SY	CEMENT CONCRETE SIDEWALK	\$85.00	\$12,750
701.2*	70	SY	CEMENT CONCRETE PEDESTRIAN CURB RAMP	\$140.00	\$9,800
701.3	15	SY	STAMPED & COLORED CEMENT CONCRETE	\$105.00	\$1,575
745.	2	EA	PEDESTRIAN BUS SHELTER	\$47,500.00	\$95,000
748.	1	LS	MOBILIZATION	\$8,698.68	\$8,699
751.	50	CY	LOAM FOR ROADSIDES	\$120.00	\$6,000
756.*	1	LS	NPDES STORMWATER POLLUTION PREVENTION PLAN	\$10,500.00	\$10,50
765.	200	SY	SEEDING	\$2.00	\$400
767.121*	370	FT	SEDIMENT CONTROL BARRIER	\$6.50	\$2,405
815.1	1	LS	TRAFFIC CONTROL SIGNAL LOCATION NO. 1- OVERHEAD RRFB	\$30,000.00	\$30,000
832.	50	SF	WARNING-REGULATORY AND ROUTE MARKER - ALUMINUM PANEL (TYPE A)	\$22.50	\$1,125
847.12*	7	EA	SIGN SUP (N/GUIDE)+RTE MKR W/1 BRKWAY POST ASSEMBLY - STEEL (BLACK)	\$250.00	\$1,750
851.1	70	DAY	TRAFFIC CONES FOR TRAFFIC MANAGEMENT	\$125.00	\$8,750
852.	220	SF	SAFETY SIGNING FOR TRAFFIC MANAGEMENT	\$30.00	\$6,600
854.1	740	SF	PAVEMENT MARKING REMOVAL	\$3.05	\$2,257
856.	120	DAY	ARROW BOARD	\$17.00	\$2,040
856.12	120	DAY	PORTABLE CHANGEABLE MESSAGE SIGN	\$30.00	\$3,600
859.	2,921	DAY	REFLECTORIZED DRUM	\$1.00	\$2,921
864.04	200	SF	PAVEMENT ARROWS AND LEGENDS REFLECTORIZED WHITE (THERMOPLASTIC)	\$8.40	\$1,680
865.*	560	SF	CROSS WALKS REFLECTORIZED WHITE (THERMOPLASTIC)	\$7.00	\$3,920
866.106	1,800	FT	6 INCH REFLECTORIZED WHITE LINE (THERMOPLASTIC)	\$2.15	\$3,870
866.112	50	FT	12 INCH REFLECTORIZED WHITE LINE (THERMOPLASTIC)	\$6.85	\$343
867.106	700	FT	6 INCH REFLECTORIZED YELLOW LINE (THERMOPLASTIC)	\$2.18	\$1,526
874.	2	EA	STREET NAME SIGN	\$170.00	\$340
874.2	2	EA	TRAFFIC SIGN REMOVED AND RESET	\$265.09	\$530
874.4	1	EA	TRAFFIC SIGN REMOVED AND STACKED	\$87.00	\$87
				Subtotal:	\$298,65
rliminary Construction		Uniformed Traffic Officer Control:	\$14,933		

10% Construction Contingency:

Grand Total:

\$343,453

Cost Estimate Prepared F

FRTA

FUSS & O'NEILL

FUSS & O'NEILL

FRTA – Industrial Blvd/Millers Falls Rd Bus Stop Improvements Montague, MA Preliminary Design Estimate 9/11/2024

ALTERNATIVE #3 PEDESTRIAN HYBRID BEACON (HAWK) W/SIMME SEATS

ITEM NO.	PART. QUANTITY	UNIT	DESCRIPTION	UNIT PRICE	PART. COST	TOTAL
100	1	LS	SCHEDULE OF OPERATIONS - FIXED PRICE \$7000	\$7,000.00	\$7,000.00	\$7,000
102.1	0	FT	TREE TRIMMING	\$14.25	\$0.00	\$0
120.	70	CY	EARTH EXCAVATION	\$40.00	\$2,800.00	\$2,800
141.101*	10	CY	TEST PIT FOR EXPLORATION-VACUUM TRUCK	\$250.00	\$2,500.00	\$2,500
151.	50	CY	GRAVEL BORROW	\$66.75	\$3,337.50	\$3,338
170.	225	SY	FINE GRADING AND COMPACTING - SUBGRADE AREA	\$6.00	\$1,350.00	\$1,350
450.22	7	TON	SUPERPAVE SURFACE COURSE - 9.5 (SSC - 9.5)	\$320.00	\$2,240.00	\$2,240
450.23	7	TON	SUPERPAVE SURFACE COURSE - 12.5 (SSC - 12.5)	\$267.82	\$1,874.74	\$1,875
482.3	210	FT	SAWCUTTING ASPHALT PAVEMENT	\$5.50	\$1,155.00	\$1,155
506.	310	FT	GRANITE CURB TYPE VB - STRAIGHT	\$117.50	\$36,425.00	\$36,425
506.1	80	FT	GRANITE CURB TYPE VB - CURVED	\$145.00	\$11,600.00	\$11,600
509.	40	FT	GRANITE TRANSITION CURB FOR PEDESTRIAN CURB RAMPS - STRAIGHT	\$96.00	\$3,840.00	\$3,840
509.1	50	FT	GRANITE TRANSITION CURB FOR PEDESTRIAN CURB RAMPS - CURVED	\$118.00	\$5,900.00	\$5,900
697.1	1	EA	SILT SACK	\$165.00	\$165.00	\$165
701.*	150	SY	CEMENT CONCRETE SIDEWALK	\$85.00	\$12,750.00	\$12,750
701.2*	70	SY	CEMENT CONCRETE PEDESTRIAN CURB RAMP	\$140.00	\$9,800.00	\$9,800
701.3	15	SY	STAMPED & COLORED CEMENT CONCRETE	\$105.00	\$1,575.00	\$1,575
745.01	2	EA	SIMME SEAT BENCH	\$2,000.00	\$4,000.00	\$4,000
748.	1	LS	MOBILIZATION	\$11,063.68	\$11,063.68	\$11,064
751.	50	CY	LOAM FOR ROADSIDES	\$120.00	\$6,000.00	\$6,000
756.*	1	LS	NPDES STORMWATER POLLUTION PREVENTION PLAN	\$10,500.00	\$10,500.00	\$10,500
765.	200	SY	SEEDING	\$2.00	\$400.00	\$400
767.121	370	FT	SEDIMENT CONTROL BARRIER	\$6.05	\$2,238.50	\$2,239
815.1	1	LS	TRAFFIC CONTROL SIGNAL LOCATION NO. 1- OVERHEAD PHB (HAWK)	\$200,000.00	\$200,000.00	\$200,000
832.	50	SF	WARNING-REGULATORY AND ROUTE MARKER - ALUMINUM PANEL (TYPE A)	\$22.50	\$1,125.00	\$1,125
847.12*	7	EA	SIGN SUP (N/GUIDE)+RTE MKR W/1 BRKWAY POST ASSEMBLY - STEEL (BLACK)	\$250.00	\$1,750.00	\$1,750
851.1	70	DAY	TRAFFIC CONES FOR TRAFFIC MANAGEMENT	\$125.00	\$8,750.00	\$8,750
852.	220	SF	SAFETY SIGNING FOR TRAFFIC MANAGEMENT	\$30.00	\$6,600.00	\$6,600
854.1	740	SF	PAVEMENT MARKING REMOVAL	\$3.05	\$2,257.00	\$2,257
856.	120	DAY	ARROW BOARD	\$17.00	\$2,040.00	\$2,040
856.12	120	DAY	PORTABLE CHANGEABLE MESSAGE SIGN	\$30.00	\$3,600.00	\$3,600
859.	2,921	DAY	REFLECTORIZED DRUM	\$1.00	\$2,921.00	\$2,921
864.04	200	SF	PAVEMENT ARROWS AND LEGENDS REFLECTORIZED WHITE (THERMOPLASTIC)	\$8.40	\$1,680.00	\$1,680
865.*	560	SF	CROSS WALKS REFLECTORIZED WHITE (THERMOPLASTIC)	\$7.00	\$3,920.00	\$3,920
866.106	1,800	FT	6 INCH REFLECTORIZED WHITE LINE (THERMOPLASTIC)	\$2.15	\$3,870.00	\$3,870
866.112	50	FT	12 INCH REFLECTORIZED WHITE LINE (THERMOPLASTIC)	\$6.85	\$342.50	\$343
867.106	700	FT	6 INCH REFLECTORIZED YELLOW LINE (THERMOPLASTIC)	\$2.18	\$1,526.00	\$1,526
874.	2	EA	STREET NAME SIGN	\$170.00	\$340.00	\$340
874.2	2	EA	TRAFFIC SIGN REMOVED AND RESET	\$265.09	\$530.18	\$530
874.4	1	EA	TRAFFIC SIGN REMOVED AND STACKED	\$87.00	\$87.00	\$87
				Subtotal:	\$379,853	\$379,853
Perliminary Co Estimate Prepa	nstruction Cost ared For:			Uniformed Traffic Officer Control:	\$18,993	\$18,993
				10% Construction Contingency:	\$37,985	\$37,985

Grand Total:

\$436,831

\$436,831

RTA

FUSS & O'NEILL

FUSS & O'NEILL

FRTA – Industrial Blvd/Millers Falls Rd Bus Stop Improvements Montague, MA Preliminary Design Estimate

eliminary Design Estimat 9/11/2024

ALTERNATIVE #4 PEDESTRIAN HYBRID BEACON W/ BUS SHELTERS

ITEM NO.	PART. QUANTITY	UNIT	DESCRIPTION	UNIT PRICE		TOTAL
100	1	LS	SCHEDULE OF OPERATIONS - FIXED PRICE \$7000	\$7,000.00		\$7,000
102.1	0	FT	TREE TRIMMING	\$14.25		\$0
120.	70	CY	EARTH EXCAVATION	\$40.00		\$2,800
141.101*	10	CY	TEST PIT FOR EXPLORATION-VACUUM TRUCK	\$250.00		\$2,500
151.	50	CY	GRAVEL BORROW	\$66.75		\$3,338
170.	225	SY	FINE GRADING AND COMPACTING - SUBGRADE AREA	\$6.00		\$1,350
450.22	7	TON	SUPERPAVE SURFACE COURSE - 9.5 (SSC - 9.5)	\$320.00		\$2,240
450.23	7	TON	SUPERPAVE SURFACE COURSE - 12.5 (SSC - 12.5)	\$267.82		\$1,875
482.3	210	FT	SAWCUTTING ASPHALT PAVEMENT	\$5.50		\$1,155
506.	310	FT	GRANITE CURB TYPE VB - STRAIGHT	\$117.50		\$36,425
506.1	80	FT	GRANITE CURB TYPE VB - CURVED	\$145.00		\$11,600
509.	40	FT	GRANITE TRANSITION CURB FOR PEDESTRIAN CURB RAMPS - STRAIGHT	\$96.00		\$3,840
509.1	50	FT	GRANITE TRANSITION CURB FOR PEDESTRIAN CURB RAMPS - CURVED	\$118.00		\$5,900
697.1	1	EA	SILT SACK	\$165.00		\$165
701.*	150	SY	CEMENT CONCRETE SIDEWALK	\$85.00		\$12,750
701.2*	70	SY	CEMENT CONCRETE PEDESTRIAN CURB RAMP	\$140.00		\$9,800
701.3	15	SY	STAMPED & COLORED CEMENT CONCRETE	\$105.00		\$1,575
745	2	EA	PEDESTRIAN BUS SHELTER	\$47,500.00		\$95,000
748.	1	LS	MOBILIZATION	\$13,798.68		\$13,799
751.	50	CY	LOAM FOR ROADSIDES	\$120.00		\$6,000
756.*	1	LS	NPDES STORMWATER POLLUTION PREVENTION PLAN	\$10,500.00		\$10,500
765.	200	SY	SEEDING	\$2.00		\$400
767.121	370	SY	SEDIMENT CONTROL BARRIER	\$6.50		\$2,405
815.1	1	LS	TRAFFIC CONTROL SIGNAL LOCATION NO. 1- OVERHEAD PHB (HAWK)	\$200,000.00		\$200,000
832.	50	SF	WARNING-REGULATORY AND ROUTE MARKER - ALUMINUM PANEL (TYPE A)	\$22.50		\$1,125
847.12*	7	EA	SIGN SUP (N/GUIDE)+RTE MKR W/1 BRKWAY POST ASSEMBLY - STEEL (BLACK)	\$250.00		\$1,750
851.1	70	DAY	TRAFFIC CONES FOR TRAFFIC MANAGEMENT	\$125.00		\$8,750
852.	220	SF	SAFETY SIGNING FOR TRAFFIC MANAGEMENT	\$30.00		\$6,600
854.1	740	SF	PAVEMENT MARKING REMOVAL	\$3.05		\$2,257
856.	120	DAY	ARROW BOARD	\$17.00		\$2,040
856.12	120	DAY	PORTABLE CHANGEABLE MESSAGE SIGN	\$30.00		\$3,600
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865.*	560	SF	CROSS WALKS REFLECTORIZED WHITE (THERMOPLASTIC)	\$7.00		\$3,920
866.106	1,800	FT	6 INCH REFLECTORIZED WHITE LINE (THERMOPLASTIC)	\$2.15		\$3,870
866.112	50	FT.	12 INCH REFLECTORIZED WHITE LINE (THERMOPLASTIC)	\$6.85		\$343
867.106	700	FT.	6 INCH REFLECTORIZED YELLOW LINE (THERMOPLASTIC)	\$2.18		\$1,526
874.	2	EA	STREET NAME SIGN	\$170.00		\$340
874.2	2	EA	TRAFFIC SIGN REMOVED AND RESET	\$265.09		\$540 \$530
874.4	1	EA	TRAFFIC SIGN REMOVED AND STACKED	\$87.00		\$330 \$87
017.4	<u>'</u>	LA	THE THE SIGN NEW OFF AND STAGNED	φ01.00	Subtotal:	\$473,755

Perliminary Construction
Cost Estimate Prepared For:

FRTA

Subtotal: \$473,755
Uniformed Traffic Officer Control: \$23,688

10% Construction Contingency: \$47,375

Grand Total: \$544,818

