



## TOWN OF EAST LONGMEADOW

Town Manager's Report

February 10, 2026

Good evening:

Attached please find the project report for the week of January 26th regarding the construction of the high school and natatorium. Just a reminder, you can get scheduling and progress information at any time on the website at <https://www.eastlongmeadowma.gov/elhsbuildingproject>

At the end of January, the Massachusetts Department of Revenue's Division of Local Services (DLS) published the preliminary Cherry Sheet estimates based on Governor Healey's FY27 budget recommendation (House 2). The Town received a 2.5% increase in Unrestricted Government Aid, a 1.1% increase in Chapter 70 funding for a total increase in estimated receipts of 2.2% over FY26. Additionally, increases in regional transit and tuition assessments led to a nearly 17% increase in estimated charges on the other side of the ledger leading to a modest \$262K net increase over the prior year. As we know, this budget will have many iterations through June, so we will provide updates as they become available.

The Town Manager's Capital Advisory Committee has begun their process to formulate the Capital Plan for FY27. Following the retirement of Diane Bishop, Peter Garvey has graciously volunteered to fill her spot on the committee. Peter is the Director of Capital Asset Construction for the City of Springfield so we are happy he is bringing his talents into the fold. He is joined by returning committee members Ryan Quimby (Chair), Deputy Town Manager, Rebecca Lisi, Town Councilor Anna Jones, Paul Federici, and Rich Freccero. I want to thank them in advance for all the work and time they will put in on what is always a comprehensive and extensive process.

Kim and I participated in a regional community roundtable last week focusing on the budgetary challenges facing municipalities in our current economic climate. Local officials provided input on a variety of topics including health insurance costs, educational expenses, local revenue and the override procedure. Thank you to Lisa Wong and the Town of South Hadley for facilitating the event and thank you to all of our neighbors for participating in a helpful and collaborative discussion about real topics that we all face together. Link to webinar is here: [www.southhadley.org/WesternMassRoundtable](http://www.southhadley.org/WesternMassRoundtable)

I am pleased to report that the Town has entered into an agreement with MassDOT through their Municipal Pavement Program. The project team finished the scope and fee estimate for paving on Route 186 (Prospect Street) from the state line to the center of town and Route 83 (Somers Road) also from the state line to the center. There is not a final timeline or schedule for this project as of yet, but I will keep you updated as we progress.

Respectfully submitted,

Thomas D. Christensen  
Town Manager

## East Longmeadow High School Weekly Report No. 085 Monday, 1-26-26 through Saturday, 1-31-26

East Longmeadow High School  
180 Maple Avenue, East Longmeadow, MA 01116

### East Longmeadow High School Building:

#### **I. Safety:**

- a. The Project has worked 10 consecutive workdays without a lost time injury through Saturday, 1-31-26.

#### **II. Average Daily Manpower (Monday - Saturday):**

- a. The Project averaged 118 workers per day for the period of Monday, 1-26-26 through Saturday, 1-31-26.
- b. Note that there was limited trade on site Monday, 1-26-26 due to the snowstorm.

#### **III. Meetings:**

- a. The weekly Owner/Architect/Contractor (OAC) Meeting was held on Thursday, 1-29-26, starting at 1:00 PM.
- b. The weekly Proposed Change Order (PCO) Review Meeting was also held on Thursday, 1-29-26, starting at 2:00 PM
- c. The monthly School Building Committee (SBC) Meeting was held on Thursday, 1-29-26, starting at 3:00 PM.

#### **IV. Testing/Inspections:**

- a. Independent Testing Lab Services: (Allied Materials Testing Lab, Yankee - AVB Pull Testing)
  - Concrete, Reinforcement and Slab Flatness: No further inspections this week.
  - Compaction Testing: No further inspections this week.
  - Spray-on Fireproofing Material Testing: No further inspections this week.
  - Structural Steel, Misc. Metals & Decking: No further inspections this week.
  - Light Gage/Cold-Formed Metal Framing: No further inspections this week.
  - Air & Vapor Barrier Pull Testing: (Allied/Yankee): No additional testing this week.
  - Asphalt Paving: No further inspections this week.
  - Fire Stopping: No further inspections this week.
  - Window Testing: No further inspections this week.
- b. Town of East Longmeadow's Building, Water/Sewer, Electrical, Plumbing, Fire Inspectors:
  - The Town's Electrical Inspector (Corey Chenevert) was on site Wednesday, 1-28-26, inspecting in-wall work in A-Wing.
  - The Town's Plumbing Inspector (Heath Dion) was on site Thursday, 1-29-26, inspecting plumbing in A-Wing.
- c. Inspections by the Architect, Engineers, and Consultants:
  - GHT (Elijah Georges) was on site Wednesday, 1-28-26, inspecting the work progress.
  - JWA/SMMA Architects (Aviva Galaski, Jay Williams, & James White.) were on site Thursday, 1-29-26, touring & inspecting the project, and attending the weekly OAC & PCO Meetings in the afternoon. Aviva also attended the SBC meeting starting at 3:00 PM.
  - SMMA Architects (Michael Manoaukin), was on site Friday, 1-30-26, inspecting the work progress.

## On-Site Activities:

### **Div. 1 – General Conditions - Construction Manager at Risk:** (Fontaine Brothers)

- a. Fontaine continues processing product submittals, generate RFI's, issue shop drawings, develop monthly requisitions, etc.
- b. Also, Fontaine continues issuing Proposed Change Orders (PCO's) in response to scope change work.

### **Div. 1 – General Conditions – Scaffolding:** (Marr Scaffolding)

- a. Scaffolding installation in the A-Wing auditorium.

### **Div. 3 – Concrete/Reinforcement:** (Manafort/Precision)

- a. Not on site this past week.

### **Div. 4 – Masonry:** (Lighthouse)

- a. Continued exterior brick veneer at the north side of the B-Wing working within a temp. enclosure with heat.
- b. Continued installing interior concrete block walls on the 1<sup>st</sup> Floor in the B Wing Locker Room area.
- c. CMU installation for the D-Wing elevator.
- d. Interior cleanup of masonry work.

### **Div. 5 – Misc. Metals (Stairs, Railings, Structural Steel Framing):** (Avid Steel Company)

- a. Not on site this past week.

### **Div. 5 – Metals (Cold Formed Metal Framing):** (H. Carr & Sons)

- a. Continued installing CFMF for interior drywall partitions in the A & B-Wings.
- b. Returned to the D & E Wings to complete misc. CFMF for pipe chases, etc.

### **Div. 6 – Rough Carpentry:** (H. Carr & Sons)

- a. Maintaining work area barriers, safety railings/handrails, and floor opening covers where required.
- b. Maintaining temporary protection in exterior wall window opens in the A, B, C, D & E Wings.
- c. Installing in-wall wood blocking into drywall partitions in the B-Wing.
- d. Installing in-wall wood blocking where required in CFMF interior partitions.

### **Div. 7 – Roofing: (Tapered Insulation Board & Membrane):** (Silktown Roofing Company)

- a. Not on site this past week.

### **Div. 7 – Metal Siding Panels:** (Chandler)

- a. Installing support clips, channels, and metal panel siding at the A-Wing and B-Wings roof-top structures.
- b. Installing windows and trim sections at the north side of A Wing.

### **Div. 8 – Hollow Metal Frames (Door Frames, Doors, Vision Panel):** (H. Carr & Sons)

- a. Receive additional deliveries of interior HM door and window frames throughout the week.
- b. Installing HM door and window frames in the B, C, D, & E Wings.

### **Div. 9 – Gypsum Board:** (H. Carr & Sons)

- a. Continued taping installed gypsum board at the tops of drywall partitions in the corridors of the A, B & C Wings.
- b. Installing interior gyp board & taping in the A-Wing.
- c. Continued installing sound proofing fiberglass insulation at drywall partitions in the B-Wing.
- d. Continued fire stopping the tops of drywall partitions.

**Div. 9 – Painting:** (John W. Egan Painting Co.)

- a. Painting the classrooms on the 1<sup>st</sup> floor of E-Wing.
- b. Painting the classrooms on the 2<sup>nd</sup> floor of D-Wing.

**Div. 9 – Tile:** (Ayotte & King Resilient & Tile Co.)

- a. Continued Wall tile installation on the 1<sup>st</sup> & 2<sup>nd</sup> floors of D & E-Wings

**Div. 9 – Casework:** (Northeast Interior Systems of New England)

- a. Casework installation on the 1<sup>st</sup> floor of D & E-Wings.

**Div. 14 – Conveying System:** (Mack Brothers)

- a. Continued with installation of the elevator and associated hardware & equipment in D-Wing.

**Div. 21 – Fire Protection:** (Cogswell Fire Protection Company)

- a. Continued installation of the sprinkler piping system in A & B-Wings.
- b. Installing the sprinkler head flex drops in the A & B-Wings.
- c. Installing sprinkler system piping in the Kitchen area.

**Div. 22 – Plumbing:** (Grasseschi Plumbing and Heating Company)

- a. Continued in-wall plumbing rough-in (domestic water supply and waste) in the A & B-Wings.
- b. Continue plumbing rough-in (domestic water supply and waste) in the A & B Wings and Kitchen areas.
- c. Installing thermal insulation on in-wall domestic water piping in the A & B Wings and Kitchen areas.

**Div. 23 & 25 – Heating, Ventilation & Air Conditioning (HVAC):** (William F. Lynch Company, CTC Controls)

- a. Continued HVAC ductwork rough-in within the A, C, D, and E-Wings.
- b. Temperature control rough-in (conduit, wire, back boxes, etc.) in the D & E Wings.
- c. Installing ductwork insulation wrap and refrigerant piping insulation in the ceiling space of the A, D & E-Wings.
- d. Installing HVAC work in the Kitchen area.
- e. Continued work at the roof-top HVAC equipment making ductwork connections.

**Div. 26 – Electrical:** (Griffin Electric Company)

- a. Continued installing in-wall electrical conduit drops & back boxes for lighting and power in the A and B Wings.
- b. Continued pulling MC cabling for lighting, power and FA in the A & B Wings where drywall partitions are framed.
- c. Continued Electric & MDF Room build-outs in the A, B, D, and E-Wings.
- d. Completing electrical rough-in work at the new Concessions Building.
- e. Receive & install electrical switchgear equipment in electric rooms.

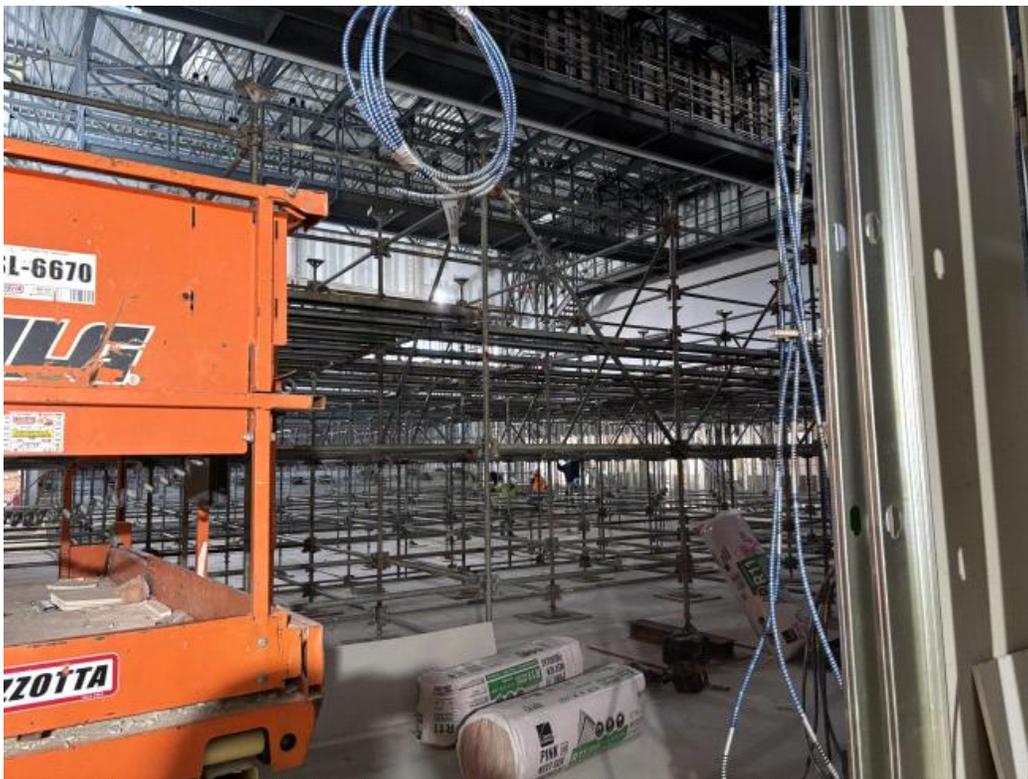
**Div. 31, 32 & 33 – Earthwork, Improvements & Utilities:** (Gagliarducci Construction)

- a. Excavation and grading for the sidewalks adjacent to the new Press Box.
- b. Backfill the concrete slab on grade for the new Press Box.
- c. Excavation and install sewer piping at north side of new school building.
- d. Load and haul off site excess soil material at the stockpiles.

**Photos:**



**MDF room buildout in the west end of A-Wing**



**Scaffolding built in the A-Wing auditorium to access the underside of the roof**



**Plumbing for domestic water in a lab room on the 2nd floor of D-Wing**



**CMU installed on the 2<sup>nd</sup> floor D-Wing elevator access**



**Hollow Metal window frames installed overlooking the cafeteria**



**Pannel installation on the southern A-Wing highwalls**



**Overhead plumbing for domestic water in B-Wing near the locker rooms**



**Wall tile set on the 2nd floor of D-Wing**

## Natatorium Building - East Longmeadow High School Weekly Report No. 059 Monday, 1-26-26 through Saturday, 1-31-26

East Longmeadow High School  
180 Maple Avenue, East Longmeadow, MA 01116

### Natatorium Building – East Longmeadow High School

#### **I. Safety:**

- a. The Project has run 366 consecutive workdays without a lost time injury through Saturday, 1-31-26.

#### **II. Average Daily Manpower (Monday - Saturday):**

- a. The Project averaged 7 workers per day for the period of Monday, 1-26-26, through Saturday, 1-31-26.
- b. Note, the Project had limited work throughout the week with short days due to cold temperatures and snow.

#### **III. Meetings:**

- a. The weekly Owner/Architect/Contractor (OAC) & Proposed Change Order (PCO) Review Meetings were held on Thursday, 1-29-26.
- b. The monthly School Building Committee (SBC) meeting was also held on Thursday, 1-29-26.

#### **IV. Testing/Inspections:**

- a. Independent Testing Lab: (Allied Materials Testing Lab)
  - Soil Compaction Testing: No soil compaction testing was required this week.
  - Concrete:  
No concrete testing was required this week.  
To date 819 cys of concrete have been placed at foundation walls, footings, and SOG for the pool structure.  
To date 141 cys of Shotcrete Concrete have been placed in the pool structure.
  - Masonry Mortar & Grout  
No masonry mortar & grout testing was required this week.
  - Reinforcement: No reinforcement inspections were required this week.
  - Structural Steel: No inspections were required this week.
- b. Town of East Longmeadow's Building, Electrical, Plumbing, Fire Inspectors:
  - No inspections this past week.
- c. Inspections by the Architect, Engineers, and Consultants:
  - JWA Architects, Aviva Galaski, was on site Thursday this week to perform a weekly site inspection and attend the OAC/PCO meetings. Aviva also attended the SBC meeting Thursday afternoon.
  - SMMA Architects, Jay Williams, was on site Thursday this week to perform a weekly site inspection and attend the OAC/PCO meetings.

### **On-Site Activities:**

#### **Div. 1 – Construction Manager at Risk:** (Fontaine Brothers)

- a. Fontaine is responsible for coordinating and managing all onsite construction activities as well as all safety practices of their subcontractors & vendors. Fontaine also schedules the materials testing lab as needed.
- b. Fontaine continues processing and developing the following:
  - Product submittals for items needed in the building.
  - Generate/issue RFI's for unforeseen items and items in question with the drawings/specifications.
  - Issue approved shop drawings through the ProCore program.

- Compiling and issuing monthly requisitions.

**Div. 3 – Concrete:** (Manafort/Precision)

- a. Preparing diamonds for concrete placement.
- b. Total yardage of concrete (819 cys) has been placed to date for footings, foundation walls & SOG.
- c. Total yardage of shotcrete (141 cys) has been placed to date for the side walls of the pool structure.

**Div. 4 – Masonry:** (Lighthouse Masonry Company)

- a. CMU installation at the vestibule.
- b. Clean-up from structural CMU installation.

**Div. 5 – Metals (Str. Stl., Decking, Joists):** (Norgate Fabrication, Stellar Steel Erection)

- a. Structural steel erection in all areas.

**Div. 7 – Thermal & Moisture Protection: (Foundation Wall/Brick shelve Air & Vapor Barrier):** (Superior Waterproofing)

- a. No additional AVB materials and/or primer were completed this week at the concrete foundation walls.

**Div. 13 – Specialties (Pool Construction):** (Mainline Company)

- a. No additional work was completed this week.

**Div. 22 – Plumbing:** (Grasseschi Plumbing and Heating Company)

- a. No additional work was completed this week.

**Div. 26 – Electrical: (Griffin Electric Company)**

- a. Continued the CMU rough-in at the pool building.

**Div. 31, 32 & 33 – Earthwork, Improvements & Utilities:** (Gagliarducci Construction)

- a. No additional work was completed this week.

**PHOTOS:**



**Decking installed on joists at the pool structure**



**CMU installed at the pool building's vestibule**

ORG	ACCOUNT DESCRIPTION	ORIGINAL APPROP	TRANFRS/ADJSMTS	REVISED BUDGET	YTD EXPENDED	ENCUMBRANCES	AVAILABLE BUDGET	Finance Notes	Project Mgr Notes	
<b>SIDEWALKS</b>										
3252421	3252421 DPW BOND.FC - SIDEWALK	PYS	-	1,575,000.00	1,575,000.00	1,202,024.97	23,093.13	349,881.90	SIDEWALKS	Investigating new areas to install new sidewalks
<b>I&amp;I</b>										
3277440	3277440 SEW.RE -INFLOW & INFIL	PYS	-	250,000.00	250,000.00	224,735.54	-	25,264.46	I&I	Bids being prepared for manhole sealing/ work to begin in the summer of 2026. Org number does not match any of my records
<b>ROADWAY IMPROVEMENTS</b>										
3362421	3362421 DPW.BOND - Roadway Imp	FY21	-	1,197,625.60	1,197,625.60	1,193,963.03	3,662.57	0.00	ROADWAY IMPROVEMENT	
3420005	3420005 HW R&A-Roadway Improve	FY24	-	350,000.00	350,000.00	111,741.02	186,176.31	52,082.67	ROADWAY IMPROVEMENT	Bids being prepared/ work to begin in the summer of 2026
3422002	3422002 DPW R&A-Roadway Improv	FY25	-	500,000.00	500,000.00	-	-	500,000.00	ROADWAY IMPROVEMENT	Bids being prepared/ work to begin in the summer of 2026
<b>ALLEN STREET</b>										
3372519	3372519 DPW.R&A - Allen Landfi	FY21	-	105,000.00	105,000.00	67,224.65	-	37,775.35	ALLEN STREET	In Progress W/ Tighe & Bond / Land Purchase
3422023	3422023 FC-DPW-Allen Street La	FY25	-	65,642.19	65,642.19	53,721.43	6,005.76	5,915.00	ALLEN STREET	Tighe & Bond CAD Complete
3426004	3426004 R&A-DPW Allen Street L	FY26	-	77,719.00	77,719.00	2,379.60	4,120.40	71,219.00	ALLEN STREET	Land clearing will commence once land purchase is complete
<b>MSBA HS AND NATATORIUM PROJECT</b>										
3392300	3392300 HS.BOND.MSBA -Feas Stu	FY21	(178,046.00)	1,438,046.00	1,260,000.00	1,207,027.33	-	52,972.67	HS/Nat Feasibility	
3392301	3392301 HS Bond-New Constructi	FY24	(5,885,000.00)	182,085,652.00	176,200,652.00	90,276,550.09	81,729,974.36	4,194,127.55	HS Construction	
3421302	3421302 HS BN Natatorium Const	FY24	(68,190.00)	16,863,726.00	16,795,536.00	6,316,570.49	9,593,478.99	885,486.52	Natatorium Construction	
<b>BONDED PROJECTS TO BE ALLOCATED TO MAPLESHADE ROOF</b>										
3327422	3327422 MB.BOND.FC.GRANT - Win		(100,000.00)	2,545,415.00	2,445,415.00	2,132,803.07	-	312,611.93	TO BE REAPPROPRIATED TO MS ROOF	
3336300	3336300 MS.BOND - Door Replace		85.38	61,914.62	62,000.00	61,914.62	-	85.38	TO BE REAPPROPRIATED TO MS ROOF	
3337422	3337422 MB.BOND - Mod Classroo		-	2,085,498.00	2,085,498.00	1,744,867.44	-	340,630.56	TO BE REAPPROPRIATED TO MS ROOF	
3349300	3349300 MB.BOND.FC.MSBA - Roof		(122,000.00)	1,845,254.00	1,723,254.00	1,699,982.06	-	23,271.94	TO BE REAPPROPRIATED TO MS ROOF	
3371422	3371422 MS.BOND -Int & Ext Doo		-	50,000.00	50,000.00	10,468.03	-	39,531.97	TO BE REAPPROPRIATED TO MS ROOF	
3393300	3393300 MS.BOND -STEAM PIPE RE		-	449,430.00	449,430.00	346,587.69	-	102,842.31	TO BE REAPPROPRIATED TO MS ROOF	
<b>CHESTNUT PUMP PROJECT - SEE RECONCILIATION</b>										
3418450	3418450 WATER.RE-Chestnut Pump	FY23	-	2,016,700.00	1,480,859.00	3,497,559.00	981,083.03	2,246,656.58		
3422016	3422016 Water BN-Water Main Pr	FY25	(476,980.01)	1,837,500.00	1,360,519.99	921,078.93	-	538,441.06	Transfer 476,980.01 to 3418450	Reconciliation of 3418450 Chestnut Pump Funding
<b>ALL OTHER PROJECTS</b>										
3403300	3403300 MV.BOND.R&A -Replace M	FY22	-	1,025,000.00	1,025,000.00	819,583.88	205,416.12	-		Work ongoing and will be completed in the Fall of 2026
3409440	3409440 SEW.BOND - Pump Stat P	FY23	(50,000.00)	305,676.00	255,676.00	166,908.00	-	88,768.00	50K transfer to 3420008	Project ongoing and will be completed in the Spring of 2026
3416450	3416450 WATER.RE Lead Line Rep	FY23	-	250,000.00	250,000.00	-	-	250,000.00		Complete
3420008	3420008 SEW BN-Porter Rd Flow	FY24	100,000.00	102,800.00	202,800.00	35,249.45	152,985.00	14,565.55	See requests from 3409440 and 3422014	Tighe & Bond/ Bid awrded to JMC Electrical Soluti
3420012	3420012 SW BN-Drainage Retrofi	FY24	-	200,000.00	200,000.00	45,013.66	38,684.84	116,301.50		BMP Heritage Park/ Install the summer of 2026
3420016	3420016 Municipal Light Plant	FY24	810,957.40	-	810,957.40	411,032.84	345,907.18	54,017.38		
3422003	3422003 DPW R&A -Dearborn/West	FY25	-	600,000.00	600,000.00	3,000.00	-	597,000.00		VHB to Survey Corridor still working Start Preliminary Design
3422008	3422008 Pol FC - Pick Up Truck	FY25	-	71,707.00	71,707.00	64,252.84	5,303.60	2,150.56		Pickup is here, waiting for radio install
3422011	3422011 IT FC-Security Upgrade	FY25	-	118,650.00	118,650.00	59,591.37	6,079.84	52,978.79		waiting on quote for material
3422012	3422012 MV BN-Modular Classroo	FY25	-	1,340,885.00	1,340,885.00	15,540.90	1,251,197.51	74,146.59		Work ongoing and will be completed in the Fall of 2026
3422021	3422021 FC/Bond-MS Roof Replac	FY25	-	370,000.00	370,000.00	108,668.05	4,931.95	256,400.00		
3422022	3422022 FC-N.Main/Harkness/Dea	FY25	-	446,330.02	446,330.02	18,039.14	116,599.88	311,691.00		VHB to Survey Corridor still working Start Preliminary Design with DOT
3426001	3426001 R&A-COA Pleasant View	FY26	-	53,021.00	53,021.00	-	-	53,021.00		In procurement
3426007	3426007 R&A-Fire-Car4-Hybrid w	FY26	-	74,442.00	74,442.00	-	66,860.40	7,581.60		Waiting for invoice for Radios and Installation
3426008	3426008 R&A-IT-Build Automatio	FY26	-	161,834.00	161,834.00	-	-	161,834.00		in procurement
3426009	3426009 R&A-IT Security Upgrad	FY26	-	21,000.00	21,000.00	5,297.38	-	15,702.62		waiting on quote for material
3426012	3426012 R&A-Pol 2 Marked Cruis	FY26	-	147,713.00	147,713.00	97,288.88	-	50,424.12		Currently being upfitted, hoping for March delivery
3426013	3426013 R&A-Pol Detective Bure	FY26	-	34,255.00	34,255.00	-	30,073.75	4,181.25		On order, no upfit date given yet
3426014	3426014 BN-Sew F350 Pickup Tru	FY26	-	112,020.00	112,020.00	99,285.00	-	12,735.00	Can be appropriated to a similar Sewer Proj	Complete
3426015	3426015 BN-Sew Inflow & Infil	FY26	53,550.00	26,450.00	80,000.00	-	-	80,000.00		Bids being prepared for manhole sealing/ work to begin in the summer of 2026.
3426017	3426017 RE-Water Rate Evaluati	FY26	-	26,450.00	26,450.00	17,710.00	8,290.00	450.00		complete in the summer of 2026
3426018	3426018 FC-Clean Up Project-70	FY26	-	250,000.00	250,000.00	-	-	250,000.00		
<b>COMPLETED/CLOSED PROJECTS</b>										
3304440	3304440 SEW.BOND.RE-Inflow&Inf	FY21	116,614.12	183,385.88	300,000.00	300,000.00	-	-		
3415122	3415122 TM.FC - Purchase Town	FY23	3,299,916.99	2,400,000.00	5,699,916.99	5,699,916.99	-	-		
3417220	3417220 FD.FC.GRANT - Fire Tru	FY23	752,380.95	221,330.05	973,711.00	973,711.00	-	-		
3419300	3419300 H5-FC-Pool Schematic D	FY23	(3,995.00)	43,945.00	39,950.00	39,950.00	-	-		
3420004	3420004 Pol R&A-New Generator	FY24	(11,448.78)	58,950.00	47,501.22	47,501.22	-	-		
3420007	3420007 Pol R&A-Mobile Compute	FY24	(5,889.91)	90,815.00	84,925.09	84,925.09	-	-		
3420009	3420009 SEW BN-Dawes&Lynwood P	FY24	(8,069.00)	82,000.00	73,931.00	73,931.00	-	-		
3422007	3422007 Pol R&A ARPA-Patrol Ve	FY25	31,527.42	41,138.00	72,665.42	72,665.42	-	-		
3422009	3422009 BP ARPA-Window Replace	FY25	(4,579.00)	53,891.00	49,312.00	49,312.00	-	-		
3422013	3422013 Sew/Wat BN RE-Meter Mo	FY25	68,980.52	69,000.00	137,980.52	137,980.52	-	-		
3422014	3422014 Sew RE-Inflow & Infil	FY25	(85,434.81)	100,000.00	14,565.19	14,565.19	-	-	50K transfer to 3420008	
3422019	3422019 ELCAT RE-Broadcast Ser	FY25	(1,644.00)	56,180.00	54,536.00	54,536.00	-	-		
3422020	3422020 ELCAT RE-Meeting Room	FY25	(2,973.15)	31,500.00	28,526.85	28,526.85	-	-		
3426002	3426002 R&A-DPW Equipment - Lo	FY26	(8,476.00)	292,590.00	284,114.00	284,114.00	-	-		
3426003	3426003 R&A-DPW Truck#59	FY26	(9,750.07)	109,249.00	99,498.93	99,498.93	-	-		
3426005	3426005 R&A-Fire-Engine2 (Year	FY26	-	189,686.38	189,686.38	189,686.38	-	-		
3426006	3426006 R&A-Fire Rescue 1 Ambu	FY26	(0.06)	170,940.00	170,939.94	170,939.94	-	-		
3426010	3426010 R&A-IT Phone Upgrade	FY26	(14,607.00)	63,397.00	48,790.00	48,790.00	-	-		
3426011	3426011 R&A-Chromebook Replac	FY26	(72.50)	137,110.00	137,037.50	137,037.50	-	-		
3426016	3426016 RE-Wat Meter Module Up	FY26	(98.90)	50,000.00	49,901.10	49,901.10	-	-		
<b>Grand Total</b>				<b>223,758,462.74</b>	<b>1,502,617.59</b>	<b>225,261,080.33</b>	<b>118,978,673.54</b>	<b>96,025,498.17</b>	<b>10,256,908.62</b>	

# **Municipal Pavement Program Project Agreement**

Agreement Number: 133565

This Municipal Pavement Program Agreement (“Agreement”) is entered into this \_\_\_\_\_ day of \_\_\_\_\_, 2026, by and between the Massachusetts Department of Transportation, a body politic and corporate and a public instrumentality of the Commonwealth of Massachusetts duly established and existing pursuant to M.G.L. Chapter 6C, as amended, having a principal place of business at Ten Park Plaza, Boston, Massachusetts, 02116 (hereinafter called “MassDOT”, and the City/Town of East Longmeadow, (the “Municipality”).

WHEREAS, MassDOT desires to assist Municipality by repairing or replacing the pavement along Route 186 & Route 83, a state number roadway owned by the Municipality in the County of Hampden, in said Commonwealth; and

WHEREAS, the Parties have agreed to the Scope of work for said roadway construction described in Exhibit A (the “Project”); and

WHEREAS, the total estimated construction costs for the Project is \$3,333,485.86, as described in Exhibit B, (the “Preliminary Estimate Form”); and

WHEREAS, the Project is to be financed by funds provided by MassDOT through the Municipal Pavement Program, as authorized by the 2021 Transportation Bond Bill; and

WHEREAS, the Parties have reached an agreement as to the apportionment of work and expense necessary for the completion of the Project.

NOW THEREFORE, in consideration of the obligations contained herein and other good and valuable consideration, the receipt of which is hereby acknowledged, MassDOT and the Municipality hereby agree, each with the other, as follows:

## **1.0 DIVISION OF WORK**

### **1.1 MassDOT**

MassDOT shall provide by its own contractors and/or subcontractors (“Contractors”) all necessary labor, materials, and equipment and other services to construct said Project in accordance with the attached Scope of Work (Exhibit A), and the Preliminary Estimate Form (Exhibit B).

## 1.2 Municipality

Municipality shall be responsible for the following: (a) applying for and maintaining in full force and effect any and all permits and approvals required for the construction of the Project; (b) acquiring, in its own name, in accordance with applicable regulations and laws, all permanent and temporary rights of way necessary to support construction activities; and (c) performing all necessary community outreach activities needed to support construction including, but not limited to, abutter notifications, community meetings, and detour notifications.

## **2.0 DIVISION OF EXPENSE**

### 2.1 MassDOT

MassDOT shall be responsible for all construction costs associated with the Project, except as provided in Section 2.2 below.

### 2.2 Municipality

Municipality shall be solely responsible for all costs and expenses associated with the acquisition of rights of way, permitting, and community outreach activities necessary to perform its obligations hereunder. Notwithstanding anything contained herein to the contrary, Section 2.2 shall survive any expiration or termination of this Agreement.

## **3.0 FINAL COMPLETION AND FUTURE MAINTENANCE**

The Municipality's representative shall be made available to attend MassDOT's final inspection of the Contractors' work of the Project. When all punch-list items identified as part of the final inspection are addressed to the satisfaction of MassDOT ("Final Completion"), MassDOT shall notify the Municipality in writing that the Project has been completed. Upon such notification, the Municipality shall, at its own expense, continue to be solely responsible for the maintenance and upkeep of all property associated with the Project and the costs thereof.

## **4.0 EXPIRATION DATE AND TERMINATION**

This Agreement will expire on 6/30/2027. This Agreement may also be terminated by mutual agreement of the Parties, upon such terms and conditions as the Parties may mutually agree upon. Such termination shall be effective in accordance with a written agreement by the Parties. Termination under this section shall not constitute a waiver of the rights of either Party to damages or other remedies related to this Agreement, except to the extent that the mutual agreement terminating this Agreement so specifies.

## 5.0 MISCELLANEOUS

### 6.1 Notices

MassDOT:

MUNICIPALITY:

### 6.2 Governing Law and Severability

This Agreement shall be governed by the laws of the Commonwealth of Massachusetts, without regard to principles of conflicts of law or choice of laws. In the event that any term or provision of this Agreement or the application thereof to any person or circumstance shall, to any extent, be declared to be invalid or unenforceable, then the remainder of this Agreement or the application of such term or provision to other person or circumstances, other than those as to which it would become invalid or unenforceable, shall not be affected thereby, and each term and provision of this Agreement shall be valid and enforceable to the fullest extent permitted by law.

### 6.3 No Third-Party Beneficiaries

This Agreement shall not be construed to create any third-party beneficiary rights in favor of any other parties or any right or privilege for the benefit of any other parties.

### 6.4 Counterparts

This Agreement may be executed in multiple counterparts, each of which shall be an original and all of which shall constitute one and the same instrument.

[THIS SPACE INTENTIONALLY BLANK; SIGNATURES ON FOLLOWING PAGE]

IN WITNESS WHEREOF, the Parties hereto have executed this Agreement on the day and year first written.

MASSACHUSETTS DEPARTMENT OF  
TRANSPORTATION

MUNICIPALITY

By: \_\_\_\_\_

By: \_\_\_\_\_

Name: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Title: \_\_\_\_\_

Legal Certification

This will certify that the Municipality has complied with all applicable State Laws and its By-Laws and Ordinances as they apply to this Agreement and that this Agreement is a valid, binding agreement with the Municipality.

By: \_\_\_\_\_

Date: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Certificate of Signatory

This will certify that the below named individuals are duly authorized and empowered to execute and deliver this Agreement on behalf of the Municipality.

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Attest (Signature): \_\_\_\_\_

Title: \_\_\_\_\_

EXHIBIT LIST

Exhibit A – Scope of Work & Locus Map

Exhibit B - Preliminary Estimate Form

# **MUNICIPAL PAVEMENT PROGRAM**

## **EAST LONGMEADOW**

### **RESURFACING, PAVEMENT PRESERVATION AND RELATED WORK ON ROUTE 186**

#### **SCOPE OF WORK**

This project includes resurfacing and pavement preservation on Route 186 in the Town of East Longmeadow beginning at the MA/CT State Line (MM 0.0) and continues northerly to the existing pavement joint near the Town Center (MM 2.4) for a total length of 2.4 miles. The project is broken into two segments based on different pavement treatments as follows:

#### **SEGMENT 1: From the MA/CT State Line to Pembroke Terrace (MM 0.0 to MM 1.15)**

The work to be done under Segment 1 consists of milling and resurfacing a section of Route 186 in the Town of East Longmeadow. This segment begins at the existing pavement joint at the Connecticut State Line at Mile Marker 0.0 and ends at the existing pavement joint at Pembroke Terrace at Mile Marker 1.15. The proposed pavement treatment is a 2" pavement fine milling to remove the existing surface course pavement and then place a 2" Superpave Surface Course - 12.5 - Polymer (SSC-12.5-P).

The contract specified thickness for fine milling and the HMA layer are designed to allow the road to stay at its current elevation. Field changes which will affect the elevation must be approved by the Engineer.

The work also includes rebuilding drainage and sanitary structures, installing recessed pavement markings, implementing temporary traffic controls, and other items as set forth in the contract and required to complete the work.

All work shall be performed within and accessed by the Town roadway layout. No rights to enter on, or occupy, private property have been acquired for the project.

#### **SEGMENT 2: From Pembroke Terrace to the Town Center (MM 1.15 to MM 2.4)**

The work to be done under Segment 2 consists of applying a high-performance, polymer-modified micro surface to preserve the existing HMA surface. This segment begins at the existing pavement joint at Pembroke Terrace at Mile Marker 1.15 and ends at the existing pavement joint at Town Center at Mile Marker 2.4.

In preparation for micro surfacing, the roadway will have potholes permanently patched and cracks will be crack sealed. The contract specified thickness layer is designed to allow the road to stay at its current elevation. Field changes which will affect the elevation must be approved by the Engineer.

The work also includes adjusting or rebuilding drainage and sanitary structures, reconstructing cement concrete pedestrian curb ramps, implementing temporary traffic controls, and other items to complete the work.

All work shall be performed within and accessed by the Town roadway layout. No rights to enter on, or occupy, private property have been acquired for the project.

## **SPECIAL PROVISIONS**

### **EAST LONGMEADOW** **RESURFACING AND RELATED WORK ON ROUTE 83**

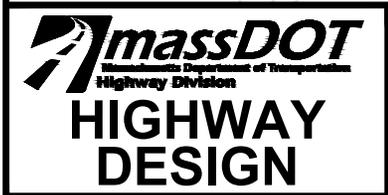
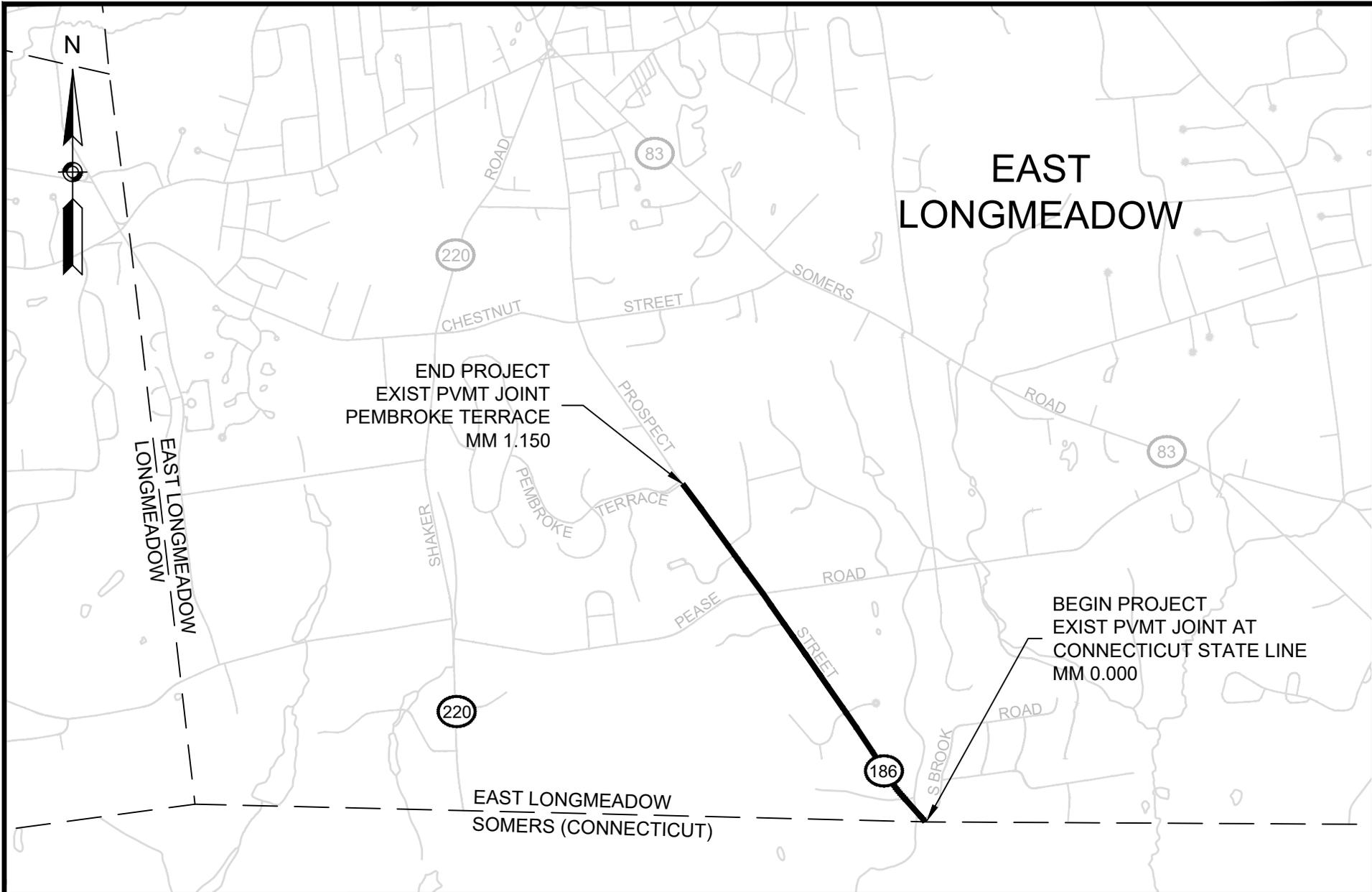
#### **SCOPE OF WORK**

The work to be done under this contract consists of pavement fine milling and resurfacing on a section of Route 83 in the Town of East Longmeadow. The project begins at the existing pavement joint at the Connecticut State line at mile marker 0.000 and ends at the existing pavement joint at the town center at mile marker 3.466.

The contract specified thickness for fine milling and the HMA layer are designed to allow the road to stay at its current elevation. Field changes which will affect the elevation must be approved by the Engineer.

The work also includes adjusting or rebuilding drainage and sanitary structures, installing recessed pavement markings, implementing temporary traffic controls, and other items as set forth in the contract and required to complete the work.

All work shall be performed within and accessed by the Town roadway layout. No rights to enter on, or occupy, private property have been acquired for the project.

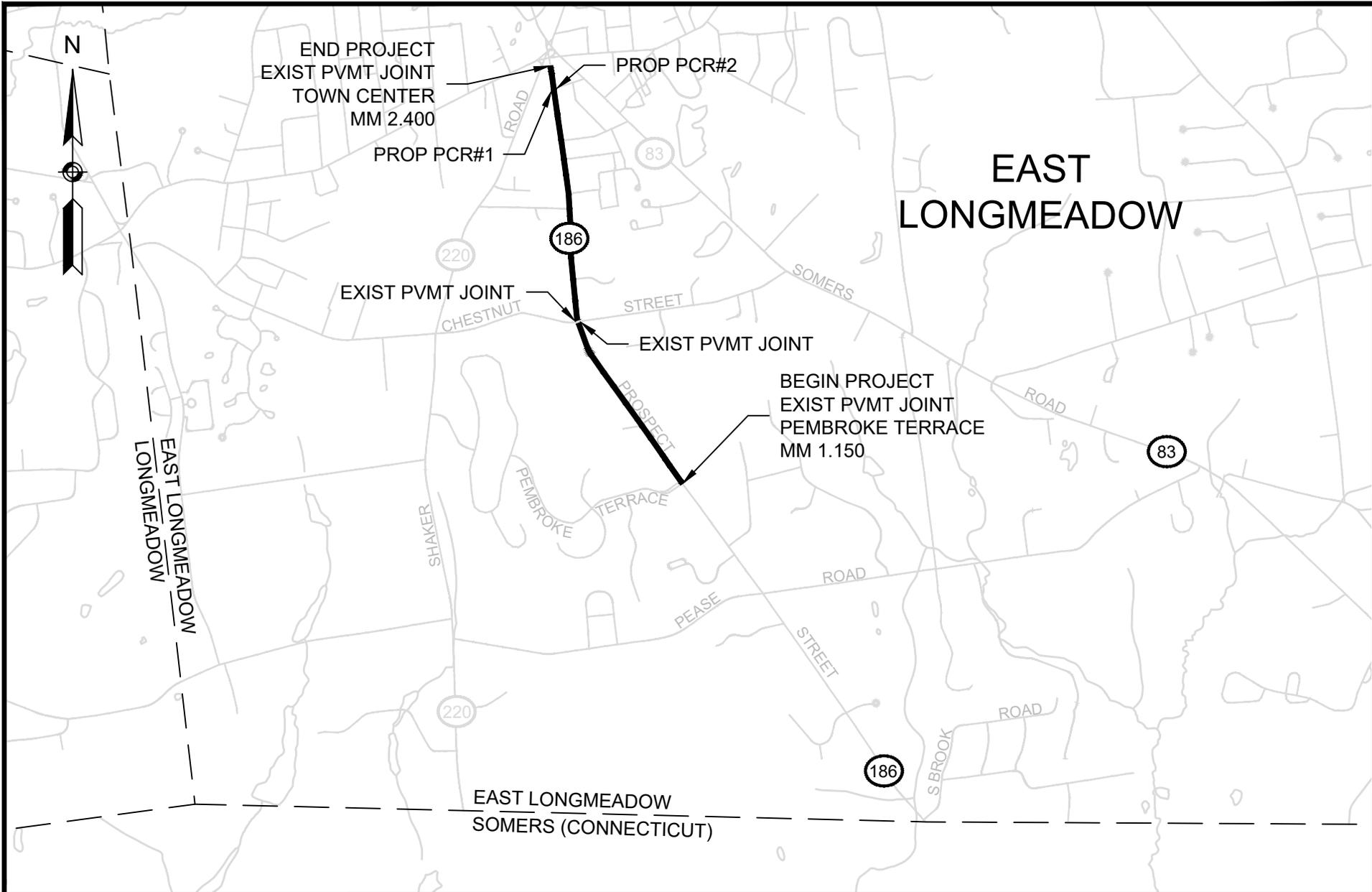


**LOCUS**  
**EAST LONGMEADOW - SR 186**  
PROJECT LENGTH = 6,072 FT = 1.150 MILES

DRAWN BY: YF  
DATE: 07-23-2025  
CHECKED BY: JPB  
DATE: 07-23-2025

DATE: 07-23-2025  
SCALE: 1" = 2000'  
PROJECT NO.:  
SHEET: 1 OF 1

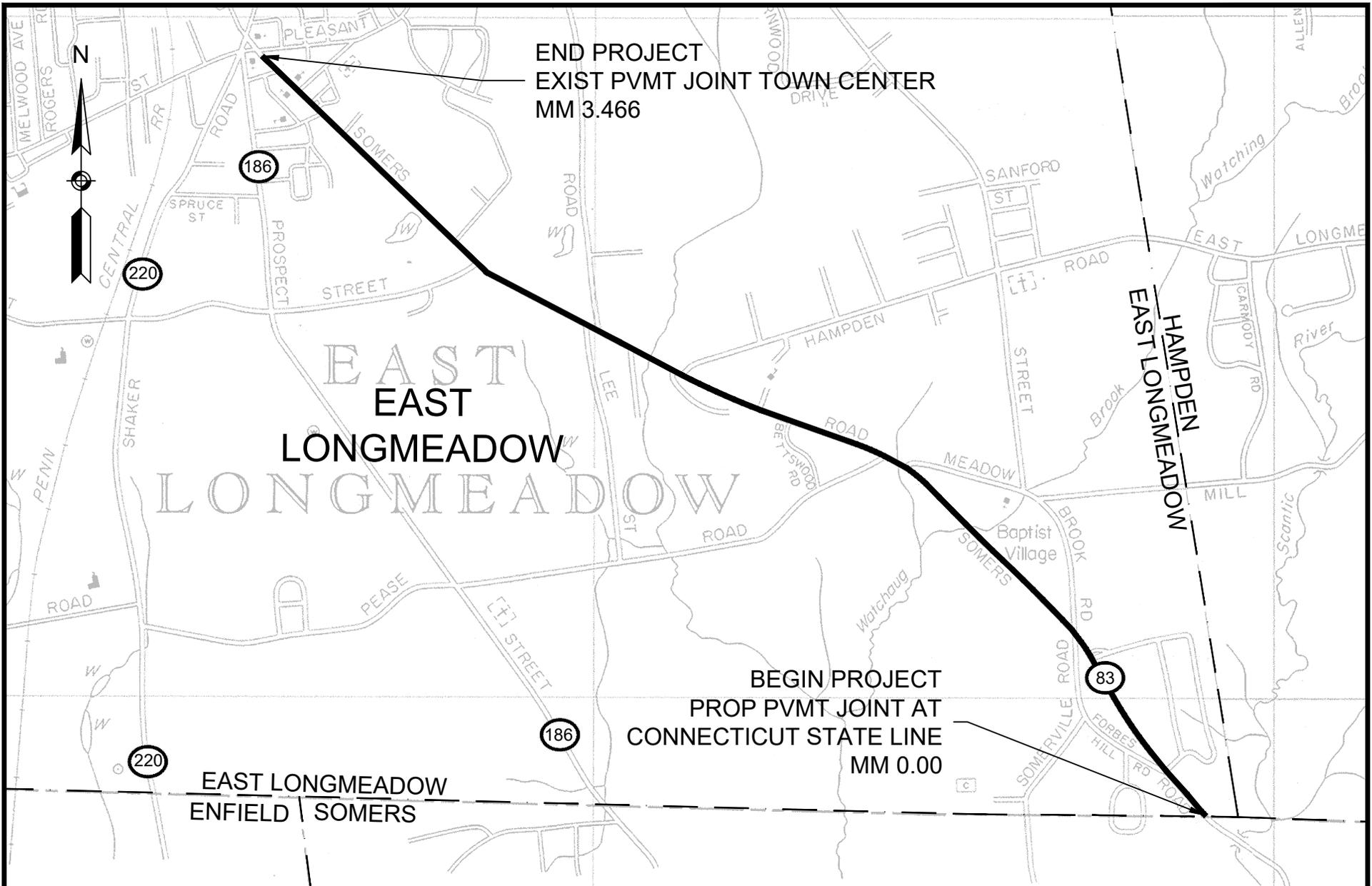
SEGMENT 1: From the MA/CT State Line to Pembroke Terrace (MM 0.0 to MM 1.15)



**LOCUS**  
**EAST LONGMEADOW - SR 186**  
 PROJECT LENGTH = 6,600 FT = 1.25 MILES

DRAWN BY: YF	DATE: 10-15-2025
DATE: 10-15-2025	SCALE: 1" = 2000'
CHECKED BY: JPB	PROJECT NO.:
DATE: 10-15-2025	SHEET: 1 OF 1

SEGMENT 2: From Pembroke Terrace to the Town Center (MM 1.15 to MM 2.4)



**LOCUS**

**EAST LONGMEADOW - SR 83**

LENGTH OF PROJECT = 18,298 FT = 3.466 MILES

DRAWN BY: ECM  
DATE: 06-05-25  
CHECKED BY: RP  
DATE: 06-16-25

DATE: 06-05-25  
SCALE: 1" = 2000'  
PROJECT NO.:  
SHEET: 1 OF 1





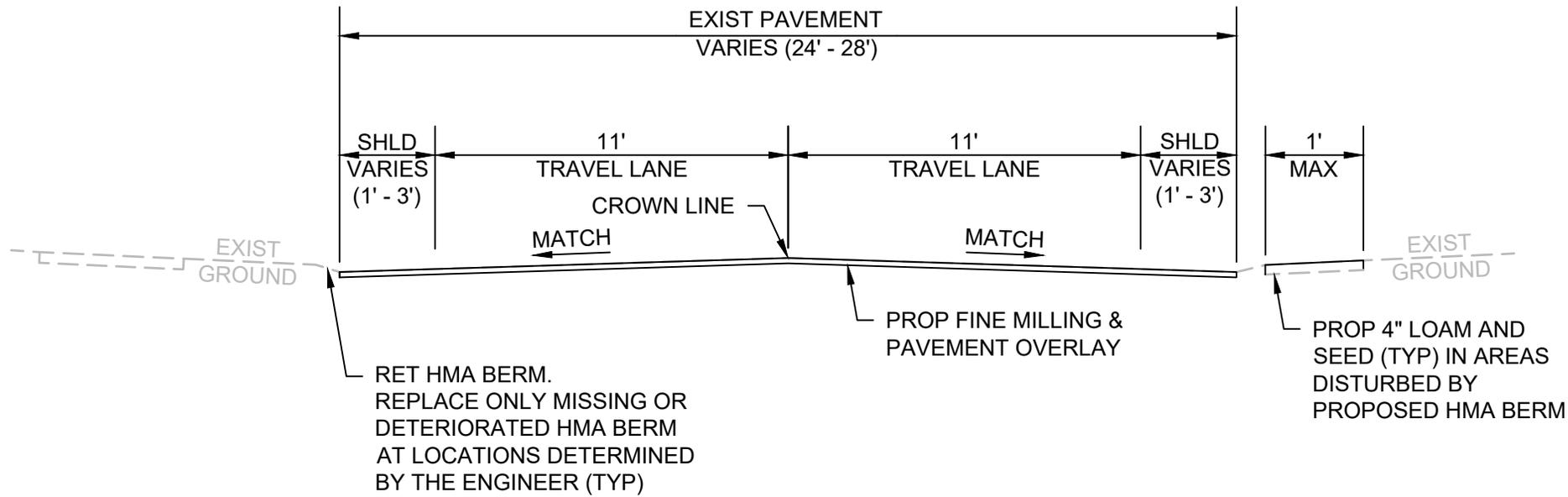
**PRELIMINARY ESTIMATE**

EAST LONGMEADOW ROUTE 83						
S.P.	ITEM NO.	QTY.	UNITS	ITEM DESCRIPTION	UNIT PRICE	TOTAL
	120.1	275	CY	UNCLASSIFIED EXCAVATION	\$50.00	\$ 13,750.00
	151.	30	CY	GRAVEL BORROW	\$78.00	\$ 2,340.00
	170.	100	SY	FINE GRADING AND COMPACTING - SUBGRADE AREA	\$8.00	\$ 800.00
	220.	62	EA	DRAINAGE STRUCTURE ADJUSTED	\$345.00	\$ 21,390.00
	220.2	10	FT	DRAINAGE STRUCTURE REBUILT	\$410.00	\$ 4,100.00
	220.6	3	FT	SANITARY STRUCTURE REBUILT	\$410.00	\$ 1,230.00
	220.7	15	EA	SANITARY STRUCTURE ADJUSTED	\$345.00	\$ 5,175.00
	358	44	EA	GATE BOX ADJUSTED	\$200.00	\$ 8,800.00
*	402.14	40	CY	PAVEMENT MILLING MULCH FOR SHOULDERS	\$90.00	\$ 3,600.00
	415.2	76,500	SY	PAVEMENT FINE MILLING	\$3.80	\$ 290,700.00
	450.231	8,570	TON	SUPERPAVE SURFACE COURSE - 12.5 POLYMER (SSC - 12.5 - P)	\$127.00	\$ 1,088,390.00
	451.	30	TON	HMA FOR PATCHING	\$42.00	\$ 1,260.00
	452.	7,170	GAL	ASPHALT EMULSION FOR TACK COAT	\$6.45	\$ 46,246.50
	453.	20,700	FT	HMA JOINT ADHESIVE	\$0.01	\$ 207.00
	470.3	100	TON	HOT MIX ASPHALT BERM - OPTION	\$245.00	\$ 24,500.00
	472.	110	TON	TEMPORARY ASPHALT PATCHING	\$150.00	\$ 16,500.00
	477.2	16,500	FT	MILLED RUMBLE STRIP (TYPE C)	\$0.30	\$ 4,950.00
	702.	101	TON	HOT MIX ASPHALT SIDEWALK OR DRIVEWAY	\$235.00	\$ 23,735.00
	751.	136	CY	LOAM FOR ROADSIDES	\$3.00	\$ 408.00
	765.	1,224	SY	SEEDING	\$21.25	\$ 26,010.00
	832.	12	SF	WARNING-REGULATORY AND ROUTE MARKER ALUMINUM PANEL (TYPE A)	\$275.00	\$ 3,300.00
	847.1	2	EA	SIGN SUP (N/GUIDE)+RTE MKR W/1 BRKWAY POST ASSEMBLY - STEEL	\$84.50	\$ 169.00
	850.41	480	HR	ROADWAY FLAGGER	\$0.01	\$ 4.80
	851.1	30	DAY	TRAFFIC CONES FOR TRAFFIC MANAGEMENT	\$5.50	\$ 165.00
	852.	1,093	SF	SAFETY SIGNING FOR TRAFFIC MANAGEMENT	\$168.00	\$ 183,624.00
	854.016	73,200	FT	TEMPORARY PAVING MARKINGS - 6 INCH (PAINTED)	\$2.00	\$ 3,660.00
	854.036	1,830	FT	TEMPORARY PAVING MARKINGS - 6 INCH (TAPE)	\$13.50	\$ 405.00
	856.	30	DAY	ARROW BOARD	\$0.25	\$ 112.50
	859.	450	DAY	REFLECTORIZED DRUM	\$2.35	\$ 1,057.50
	862.406	67,600	FT	6-INCH WHITE (WC, UFD, WR) RECESSED	\$9.75	\$ 658,950.00
	862.412	100	FT	12-INCH WHITE (WC, UFD, WR) RECESSED	\$11.00	\$ 1,100.00
*	862.424	170	FT	24-INCH WHITE (WC, UFD, WR) RECESSED	\$12.00	\$ 2,040.00
	863.406	32,900	FT	6-INCH YELLOW (WC, UFD, WR) RECESSED	\$2.35	\$ 773.15
	864.22	112	EA	SYMBOLS FOR BICYCLE FACILITIES WET REFLECTIVE (PF)	\$349.00	\$ 39,088.00
	864.23	112	EA	ARROWS FOR BICYCLE FACILITIES WET REFLECTIVE (PF)	\$270.00	\$ 30,240.00
	999.001	1	LS	POLICE DETAILS	\$82,887.07	\$ 82,887.07
					<b>TOTAL:</b>	<b>\$ 2,451,089.07</b>

NOTE: ITEMS HIGHLIGHTED IN BLUE ARE NOT INCLUDED IN CONTRACT #129048 AND WILL REQUIRE AN EWO. UNIT PRICES FOR ITEMS NOT INCLUDED IN CONTRACT #129048 ARE THE WEIGHTED AVERAGE BID PRICES. UNIT PRICES FOR ITEMS THAT ARE INCLUDED IN CONTRACT #129048 ARE FROM THE CONTRACT.

# **SEGMENT 1**

## **TYPICAL SECTION & DETAIL SHEETS**



TYPICAL SECTION  
 (NORMAL CROWN)  
 ROUTE 186  
 EXIST PVMT JOINT AT CONNECTICUT STATE LINE (MM 0.000) TO  
 EXIST PVMT JOINT AT PEMBROKE TERRACE (MM 1.150)  
 NTS

PAVEMENT NOTES:  
PROPOSED FINE MILLING AND PVM'T OVERLAY  
 SURFACE: 2" SUPERPAVE SURFACE COURSE - 12.5 POLYMER (SSC-12.5-P) OVER  
 ASPHALT EMULSION FOR TACK COAT AT 0.07 TO 0.09 GAL/ SY OVER  
 MILLING: 2" PAVEMENT FINE MILLING



TYPICAL SECTION  
 EAST LONGMEADOW - SR 186

DRAWN BY: YF	DATE: 9/23/2025
DATE: 9/23/2025	SCALE: NTS
CHECKED BY: HP	PROJECT NO.:
DATE: 9/23/2025	SHEET: 1 OF 1



CONSTRUCTION SKETCH  
 PAVEMENT LIMITS AT PEASE RD  
 EAST LONGMEADOW - SR 186

DRAWN BY: YF	DATE: 09-23-2025
DATE: 09-23-2025	SCALE: NTS
CHECKED BY: JPB	PROJECT NO.:
DATE: 09-23-2025	SHEET: 1 OF 1

PARS No.  
AE ID  
File No.

THE COMMONWEALTH OF MASSACHUSETTS  
DEPARTMENT OF TRANSPORTATION – HIGHWAY DIVISION  
TEN PARK PLAZA – BOSTON, MA

-PRELIMINARY ESTIMATE OF QUANTITIES - DETAIL SHEET-

City: East Longmeadow  
Type: Resurfacing and Related Work

Road: Route 186  
Class:  
Date: 09/25/2025

Unclassified Excavation	66 CY	Gravel Borrow	45 CY
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**PAVEMENT NOTES**

Route 186: Proposed Roadway Pavement Milling and Resurfacing (Connecticut state line MM 0.000 to Pembroke Terrace MM 1.150).

Surface Course: 2" Superpave Surface Course – 12.5 Polymer (SSC-12.5-P) over

Milling: 2" Pavement Fine Milling

Tack Coat: Asphalt emulsion for tack coat shall be applied at 0.07 to 0.09 gal/yd<sup>2</sup> over milled surface.

Plan No's None  
Profile No's None  
Calc. Book No. None

Estimated By: YF  
Checked By: JPB  
Submitted By:

Patricia Leavenworth, P.E.

- PRELIMINARY ESTIMATE OF QUANTITIES - DETAIL SHEET -

---

**ITEM 120.1 UNCLASSIFIED EXCAVATION**

Excavation for the following:

- For proposed driveway aprons at locations determined by the Engineer.
- Contingency for the removal of existing deteriorated HMA berm or curb at locations determined by the Engineer.
- Elsewhere as required by the Engineer.

**ITEM 151. GRAVEL BORROW**

For subbase for proposed HMA driveway aprons at locations determined by the Engineer.

**ITEM 170. FINE GRADING AND COMPACTING – SUBGRADE AREA**

For fine grading and compacting the subgrade beneath proposed HMA driveway aprons at locations determined by the Engineer.

**ITEM 220. DRAINAGE STRUCTURE ADJUSTED**  
**ITEM 220.2 DRAINAGE STRUCTURE REBUILT**

Contingency to adjust or rebuild existing drainage structures as required by the Engineer.

**ITEM 220.6 SANITARY STRUCTURE REBUILT**  
**ITEM 220.7 SANITARY STRUCTURE ADJUSTED**

Contingency to adjust or rebuild existing sanitary structures as required by the Engineer.

**ITEM 358. GATE BOX ADJUSTED**

Contingency to adjust gate boxes within the paving limits.

**ITEM 415.2 PAVEMENT FINE MILLING**

To fine mill Route 186 within project limits.

**ITEM 450.231 SUPERPAVE SURFACE COURSE – 12.5 POLYMER (SSC-12.5-P)**

For 2" proposed pavement surface course on Route 186 within project limits.

**ITEM 451. HMA FOR PATCHING**

Contingency for making full depth HMA repairs in severely deteriorated areas prior to placing surface course HMA as required by the Engineer.

- PRELIMINARY ESTIMATE OF QUANTITIES - DETAIL SHEET -

---

**ITEM 452. ASPHALT EMULSION FOR TACK COAT**

For tack coat on the milled surface of travel lanes and shoulders within the fine milling and pavement overlay limits.

**ITEM 453. HMA JOINT ADHESIVE**

For sealing all longitudinal and transverse joints in the proposed pavement surface course.

**ITEM 470.3 HOT MIX ASPHALT BERM - OPTION**

Contingency for replacing damaged or missing existing HMA berm and HMA curb at locations determined by the Engineer

**ITEM 472. TEMPORARY ASPHALT PATCHING**

For construction of temporary longitudinal ramps at 12H:1V at milling and paving limits and at other locations as required by the Engineer.

**ITEM 702. HOT MIX ASPHALT SIDEWALK OR DRIVEWAY**

For proposed driveway aprons at locations determined by the Engineer.

**ITEM 751. LOAM FOR ROADSIDES**

Contingency item for use as required by the Engineer.

**ITEM 765. SEEDING**

Contingency item for use with item 751. as required by the Engineer.

**ITEM 850.41 ROADWAY FLAGGER**

**ITEM 851.1 TRAFFIC CONES FOR TRAFFIC MANAGEMENT**

**ITEM 852. SAFETY SIGNING FOR TRAFFIC MANAGEMENT**

For use with temporary traffic control.

**ITEM 854.016 TEMPORARY PAVING MARKINGS - 6 INCH (PAINTED)**

For temporary pavement markings to reproduce existing pavement markings on the milled surface.

**ITEM 854.036 TEMPORARY PAVEMENT MARKINGS - 6 INCH (REMOVABLE TAPE)**

For temporary dashed centerline between travel lanes on the proposed surface course (4' line 40' gap) until permanent markings are applied.

City East Longmeadow  
AE ID No.  
File No.

Road Route 186  
Sheet 4 of 4

- PRELIMINARY ESTIMATE OF QUANTITIES - DETAIL SHEET -

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**ITEM 856.**     **ARROW BOARD**  
**ITEM 859.**     **REFLECTORIZED DRUM**

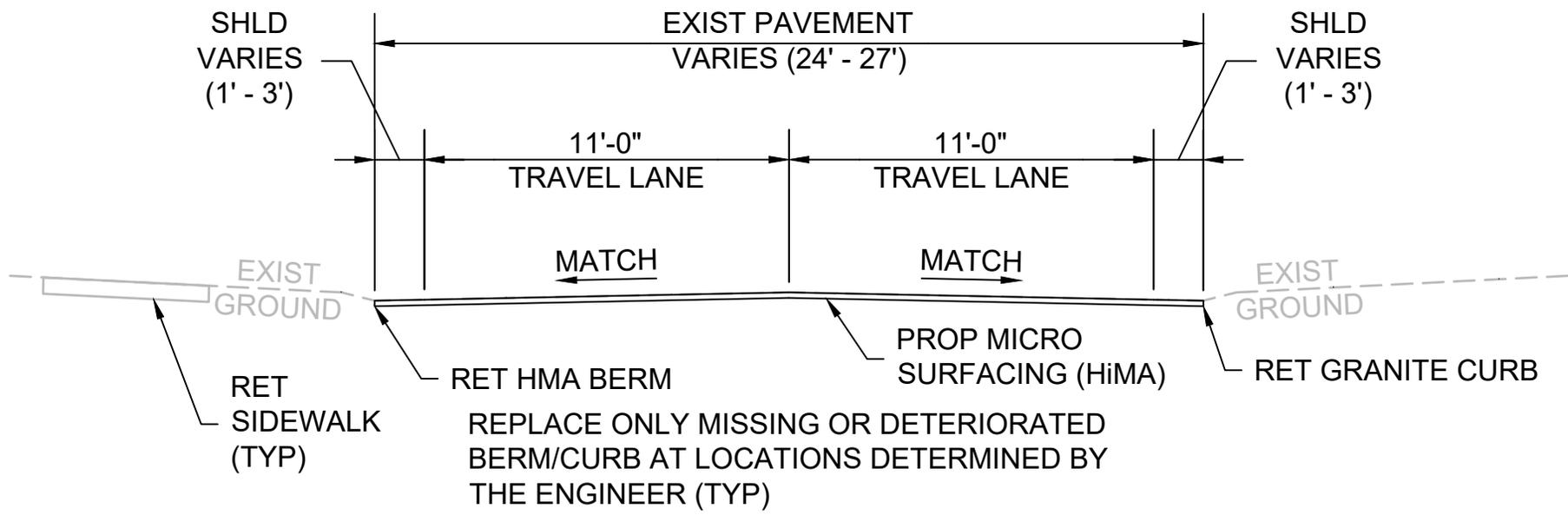
Use for temporary traffic control.

**ITEM 862.406**     **6-INCH WHITE (WC, UFD, WR) RECESSED**  
**ITEM 862.412**     **12-INCH WHITE (WC, UFD, WR) RECESSED**  
**ITEM 863.506**     **6-INCH YELLOW (WC, UFD, WR) RECESSED**

For permanent pavement markings on the final HMA surface.

# **SEGMENT 2**

## **TYPICAL SECTION & DETAIL SHEETS**

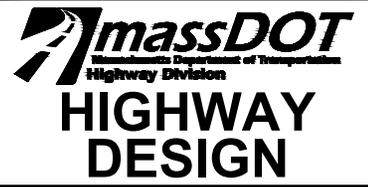


TYPICAL SECTION  
 (NORMAL CROWN)  
 ROUTE 186  
 PEMBROKE TERRACE (MM 1.15) TO  
 PAVEMENT JOINT AT EAST LONGMEADOW  
 CENTER (MM 2.40)

PAVEMENT NOTES:  
MAINLINE PAVEMENT (TRAVEL LANES AND SHOULDERS IN AREAS OF FULL BANK SUPERELEVATION):

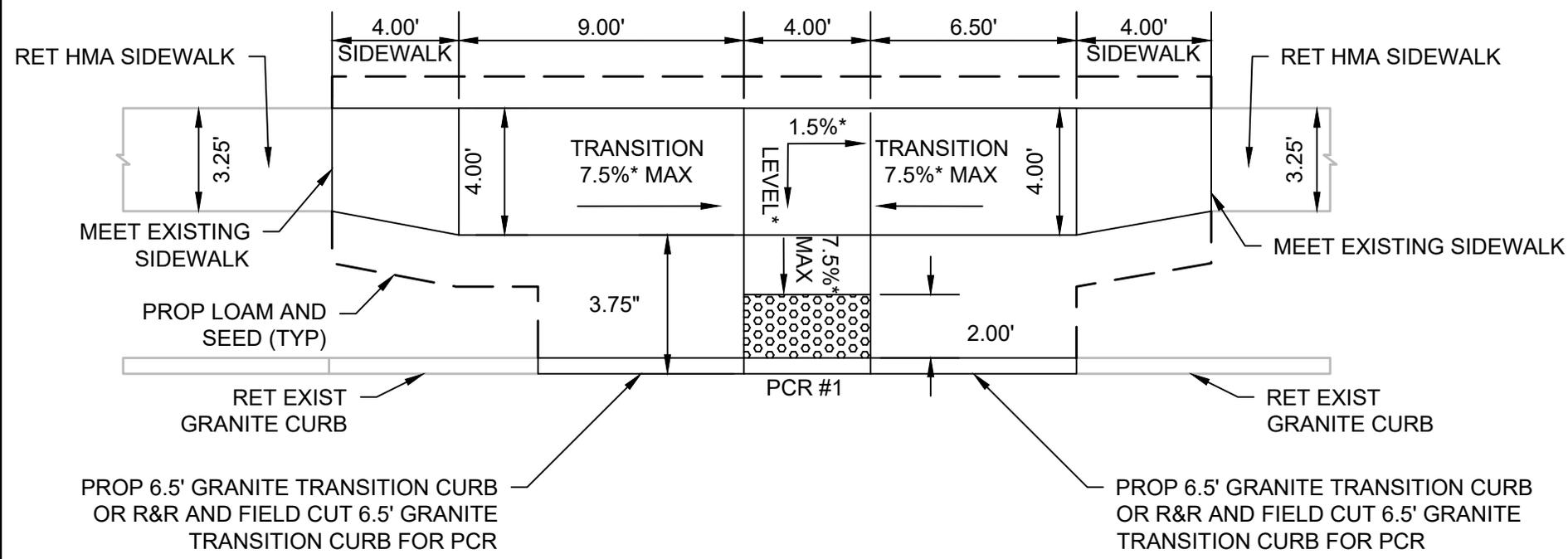
SURFACE: MICRO-SURFACING (HIMA)

IN PREPARATION FOR THE MICRO SURFACING THE ROADWAY WILL HAVE POTHOLES PERMANENTLY PATCH AND CRACKS WILL BE CRACK SEALED.  
 ASPHALT EMULSION FOR TACK COAT ONLY HEAVILY OXIDIZED ROADWAY SURFACES  
 PRIOR TO APPLICATION OF PROPOSED MICRO SURFACE



**TYPICAL SECTION**  
**EAST LONGMEADOW - SR 186**

DRAWN BY: YF	DATE: 10-15-2025
DATE: 10-15-2025	SCALE: NTS
CHECKED BY: YF	PROJECT NO.:
DATE: 10-15-2025	SHEET: 1 OF 1

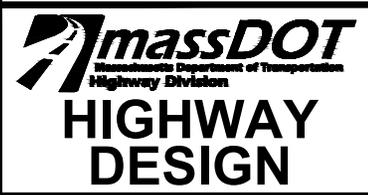


PCR NO.	RAMP REFERENCE POINT	SIDEWALK WIDTH	RAMP ENTRANCE WIDTH
	STREET LOCATION		
1	79 PROSPECT ST	4'	4'

**NOTES:**  
 1) MAXIMUM TRANSITION RAMP LENGTH IS 15 F.  
 2) LIMITS OF PCR RECONSTRUCTION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

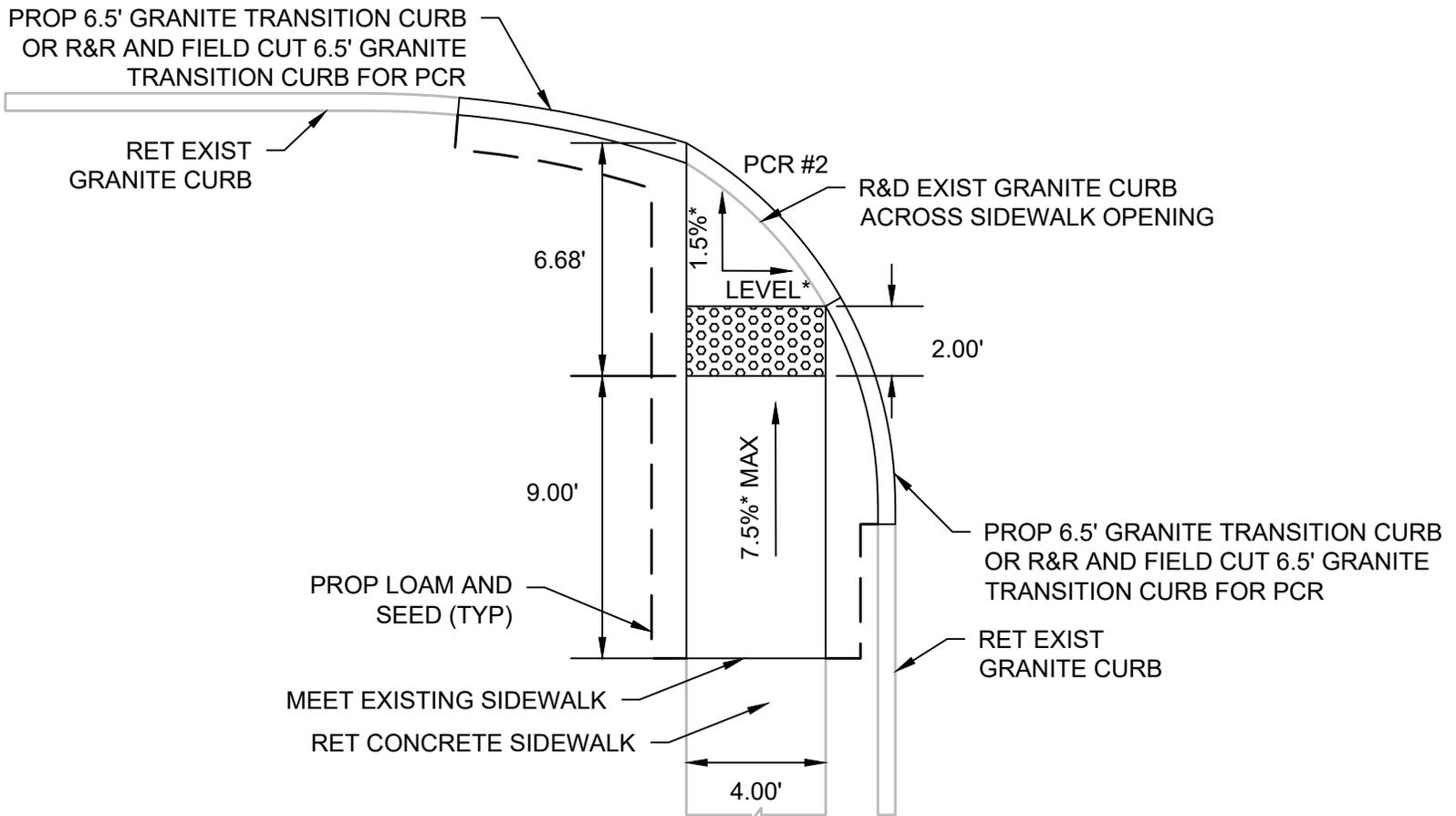
**LEGEND**  
 \* = CONSTRUCTION TOLERANCE ±0.5%

**PEDESTRIAN CURB RAMP**  
 NOT TO SCALE



**PCR DETAILS**  
**EAST LONGMEADOW - SR 186**

DRAWN BY: YF	DATE: 10-09-2025
DATE: 10-09-2025	SCALE: NTS
CHECKED BY: HP	PROJECT NO.:
DATE: 10-09-2025	SHEET: 1 OF 2



**NOTES:**

- 1) MAXIMUM TRANSITION RAMP LENGTH IS 15 F.
- 2) LIMITS OF PCR RECONSTRUCTION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

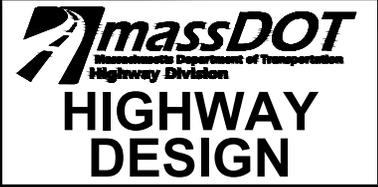
**LEGEND**

\* = CONSTRUCTION TOLERANCE ±0.5%

PCR NO.	RAMP REFERENCE POINT	SIDEWALK WIDTH	RAMP ENTRANCE WIDTH
	STREET LOCATION		
2	80 PROSPECT ST	4'	4'

**PEDESTRIAN CURB RAMPS**

NOT TO SCALE



**PCR DETAILS**  
**EAST LONGMEADOW - SR 186**

DRAWN BY: YF	DATE: 10-07-2025
DATE: 10-07-2025	SCALE: NTS
CHECKED BY: HP	PROJECT NO.:
DATE: 10-07-2025	SHEET: 2 OF 2

PARS No.  
AE ID  
File No.

THE COMMONWEALTH OF MASSACHUSETTS  
DEPARTMENT OF TRANSPORTATION – HIGHWAY DIVISION  
TEN PARK PLAZA – BOSTON, MA

-PRELIMINARY ESTIMATE OF QUANTITIES - DETAIL SHEET-

City: East Longmeadow  
Type: Pavement Preservation  
And Related Work

Road: Route 186  
Class:  
Date: 12/23/2025

Unclassified Excavation	21 CY	Gravel Borrow	21 CY
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**PAVEMENT NOTES**

Route 186: Proposed Roadway Pavement Preservation (Pembroke Terrace MM 1.150 to Town Center at mile marker 2.400).

Surface Course: 3/8 INCH MICRO-SURFACING (HIMA)

Plan No's None  
Profile No's None  
Calc. Book No. None

Estimated By: YF  
Checked By: HP  
Submitted By:

\_\_\_\_\_  
Patricia Leavenworth, P.E.

- PRELIMINARY ESTIMATE OF QUANTITIES - DETAIL SHEET -

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**ITEM 120.1 UNCLASSIFIED EXCAVATION**

Excavation for the following:

- For proposed driveway aprons at locations determined by the Engineer.
- For proposed PCR's
- Contingency for the removal of existing deteriorated HMA berm or curb at locations determined by the Engineer.

**ITEM 151. GRAVEL BORROW**

- For proposed HMA driveway aprons at locations determined by the Engineer.
- For proposed PCR's.
- For proposed sidewalk.

**ITEM 170. FINE GRADING AND COMPACTING – SUBGRADE AREA**

For fine grading and compacting the subgrade at proposed HMA driveway aprons at locations determined by the Engineer.

**ITEM 220. DRAINAGE STRUCTURE ADJUSTED**  
**ITEM 220.2 DRAINAGE STRUCTURE REBUILT**

To adjust or rebuild existing drainage structures MassDOT type as required by the Engineer.

**ITEM 220.6 SANITARY STRUCTURE REBUILT**  
**ITEM 220.7 SANITARY STRUCTURE ADJUSTED**

To adjust or rebuild existing sanitary structures as required by the Engineer.

**ITEM 358. GATE BOX ADJUSTED**

To adjust gate boxes within the paving limits.

**ITEM 451. HMA FOR PATCHING**

Contingency for full depth HMA repair patching in severely deteriorated areas prior to placing Micro surfacing as required by the Engineer.

**ITEM 452. ASPHALT EMULSION FOR TACK COAT**

Contingency for heavily oxidized areas of surface course pavement at locations determined by the Engineer.

- PRELIMINARY ESTIMATE OF QUANTITIES - DETAIL SHEET -

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**ITEM 467. MICRO-SURFACING (HIMA)**

For proposed HIMA micro surfacing on Route 186 from Pembroke Terrace to existing pavement joint on Route 186 at Town Center.

**ITEM 470.3 HOT MIX ASPHALT BERM - OPTION**

Contingency to replace damaged or missing existing HMA berm and HMA curb at locations determined by the Engineer

**ITEM 480.2 PAVEMENT CRACK SEALING - HIGH PERFORMANCE CRACK SEALER**

For crack sealing the existing road surface prior to the HIMA application.

**ITEM 580. CURB REMOVED AND RESET**

Contingency to remove and reset curb.

**ITEM 509. GRANITE TRANSITION CURB FOR PEDESTRIAN CURB RAMPS - STRAIGHT**

For proposed pedestrian curb ramps at 79 Prospect St.

**ITEM 509.1. GRANITE TRANSITION CURB FOR PEDESTRIAN CURB RAMPS - CURVED**

For proposed pedestrian curb ramps at 80 Prospect St.

**ITEM 594. CURB REMOVED AND DISCARDED**

To remove and discard granite curb at the following locations:

- At 79 Prospect St
- At 80 Prospect St
- Elsewhere as determined by the Engineer.

**ITEM 701. CEMENT CONCRETE SIDEWALK**  
**ITEM 701.2 CEMENT CONCRETE PEDESTRIAN CURB RAMP**

For proposed sidewalk and pedestrian curb ramps at the following locations:

- At 79 Prospect St
- At 80 Prospect St

**ITEM 702. HOT MIX ASPHALT SIDEWALK OR DRIVEWAY**

For proposed driveway aprons at locations determined by the Engineer.

**ITEM 751. LOAM FOR ROADSIDES**

For loam adjacent to proposed cement concrete pedestrian curb ramps.

- PRELIMINARY ESTIMATE OF QUANTITIES - DETAIL SHEET -

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**ITEM 765. SEEDING**

For seeding item for use with item 751. as required by the Engineer.

**ITEM 850.41 ROADWAY FLAGGER**  
**ITEM 851.1 TRAFFIC CONES FOR TRAFFIC MANAGEMENT**  
**ITEM 852. SAFETY SIGNING FOR TRAFFIC MANAGEMENT**

For use with temporary traffic control.

**ITEM 854.036 TEMPORARY PAVEMENT MARKINGS - 6 INCH (REMOVABLE TAPE)**

For temporary dashed centerline between travel lanes on the proposed surface course (4' line 40' gap) until permanent markings are applied.

**ITEM 856. ARROW BOARD**  
**ITEM 859. REFLECTORIZED DRUM**

Use for temporary traffic control.

**ITEM 862.406 6-INCH WHITE LINE (MC, UFD, WR) RECESSED**  
**ITEM 862.412 12-INCH WHITE LINE (MC, UFD, WR) RECESSED**  
**ITEM 862.424 24-INCH WHITE LINE (MC, UFD, WR) RECESSED**  
**ITEM 863.406 6-INCH YELLOW LINE (MC, UFD, WR) RECESSED**

For proposed pavement marking on the proposed micro surfacing.  
Note: Use thermoplastic marking within the project limits.

**ITEM 402.14****PAVEMENT MILLING MULCH FOR SHOULDERS****CY**

Work under this item shall conform to the relevant provisions of Section 769 of the Standard Specifications and the following:

The work consists of placing pavement millings in low spots and grading and compacting the pavement millings to provide lateral support at the edge of pavement in country drainage areas without edging or curb. Low areas along the edge of pavement shall be filled with pavement milling mulch to a level flush with and graded to the same cross slope as the adjacent HMA shoulder. The existing unpaved shoulder shall be prepared for pavement milling mulch as necessary as determined by the Engineer. Milling mulch shall be graded and compacted to a maximum width of 3 feet from the edge of the pavement or as directed by the Engineer.

**Method Of Measurement**

Item 402.14 will be measured per CY, complete in place.

**Basis Of Payment**

Item 402.14 will be paid per CY of material installed which price includes materials, leveling and compacting, and all incidental costs required to complete the work.

**ITEM 862.424****24-IN. RECESSED WHITE LINE (MC, UFD, WR)****FOOT****Description**

Work to be completed under these items shall conform to the relevant provisions of Subsection 860 of the Standard Specifications and shall consist of furnishing and installing Recessed Multi-Component (MC), Wet Reflective (WR) Pavement Markings at the locations shown on the plans or as directed by the Engineer.

If the Multi-Component Pavement Marking material is applied over a different pavement marking material, the Contractor shall provide documentation that the Multi-Component Pavement Marking Material being used will adhere to the existing marking material.

**Materials**

MC pavement markings shall consist of a two-component, 100% solids liquid binder, first drop beads or elements to provide wet and dry retroreflectivity, and second drop glass beads to improve the durability of the pavement marking, reduce track-free times, and provide supplementary retro-reflectivity. MC Pavement Marking binders are typically composed of, but not limited to, Epoxies, Polyureas, or Urethanes.

Classification of dry time is based upon the results of the test procedures found in ASTM D711 (73.5 ± 3.5°F at 50 ± 5% relative humidity) when applied with glass beads. MC Ultra-Fast Dry (MC, UFD) pavement markings shall have a no track time of 3 minutes or less. The Contractor shall provide a Certificate of Compliance verifying the product supplied meets the specified dry time requirements per ASTM D711 prior to installation.

**ITEM 862.424 (Continued)**

The Contractor shall select a liquid binder and bead/element combination that meets these performance specifications.

Second drop beads shall be manufactured from glass of a composition that is highly resistant to traffic wear and to the effects of weathering. If coating is required to meet the performance requirements, the second drop beads shall be coated to ensure satisfactory embedment and adhesion. Second drop beads retained on a No. 40 U.S. Standard Mesh Sieve shall have a minimum crush strength of 30 lbs. when tested in accordance with ASTM D1213.

Second drop beads passing the No. 30 sieve shall have a minimum of 75 percent true spheres when tested in accordance with ASTM D1155. All second drop beads retained on the No. 20 and No. 30 sieves shall have a minimum of 80 percent true spheres as determined by ASTM D1155.

Second drop beads shall meet the following gradation requirements when tested in accordance with ASTM D1214:

<b>U.S. Standard Sieve No.</b>	<b>Percent Retained</b>
20	3-10
30	15-35
50	45-75
70	0-10
Pan	0-5

**Construction Methods**

The Contractor shall follow all installation instructions from the manufacturer, including allowable ranges of temperature and humidity for installation, unless otherwise approved by the Engineer.

The pavement surface shall be clean, dry and free of laitance, oil, dirt, grease, paint or other foreign contaminants prior to the installation of any new pavement markings. If an air lance is used to clean the surface, air compressors shall initially be blown out away from the application area to prevent compressor condensation build-up. A minimum of 24 hours of dry time following any rainfall is required prior to the placement of pavement markings.

Recessing of markings shall be per 860.65: Recessed Markings.

Application rate for binder and all glass beads shall consider final pavement surface composition and smoothness in advance of application to ensure proper wet film thickness and embedment of all beads. The Contractor shall provide the Engineer with documentation from the manufacturer with all recommended application rates in advance of any pavement marking installation.

The minimum uniform wet thickness for the MC binder shall be 20 mils but should be increased if recommended by the manufacturer. The line thickness shall be met across at least the middle  $\frac{2}{3}$  of the pavement marking width. Wet mil thickness gauges shall be provided by the Contractor to the Engineer to assure that desired thickness is achieved.

The finished white color shall be free from tint, with good opacity and visibility under both daylight and artificial light. The finished yellow color shall be defined by Federal Test Standard 595 - Color Chip Number 13538, using Federal Test Standard 141 (Method 4252). The finished lines shall be uniform in color and have clean, well-defined edges.

**ITEM 862.424 (Continued)**

Glass beads shall be applied in a manner that does not induce rolling or bouncing, to ensure that exposed portions of beads are free of binder material. Beads should be embedded in the binder to a depth of approximately 50% of their diameter.

Glass beads shall be applied as a reflective medium, using the double drop method, at a rate in accordance with the manufacturer's specification in order to meet the minimum retro-reflectivity levels.

Newly installed pavement markings shall be protected from tracking during the curing period per Subsection 860.63.

Once the installed pavement markings have been open for traffic for a minimum of 7 days, the Contractor shall perform retro-reflectance readings per the measurement and sampling procedures contained in ASTM D7585 (Standard Practice for Evaluating Retroreflective Pavement Markings Using Portable Hand-Operated Instruments) using the Referee Evaluation Protocol found in section 6.4, and the testing procedures shall follow ASTM E1710 (*Standard Test Method for Measurement of Retroreflective Pavement Marking Materials with CEN-Prescribed Geometry Using a Portable Retro-reflectometer*) and ASTM E2177 (*Standard Test Method for Measuring the Coefficient of Retroreflected Luminance (R<sub>L</sub>) of Pavement Markings in a Standard Condition of Wetness*).

The average initial retro-reflectance readings shall exceed the following minimum values:

<b>Test Method</b>	<b>*White Markings</b>	<b>*Yellow Markings</b>
ASTM E1710 (Dry)	475 mcd/lux/m <sup>2</sup>	375 mcd/lux/m <sup>2</sup>
ASTM E2177 (Wet Recovery)	375 mcd/lux/m <sup>2</sup>	300 mcd/lux/m <sup>2</sup>

\*Observation Angle = 1.05°, Entrance Angle = 88.8°

Pavement markings with measured average initial retro-reflectance readings that do not meet the specified minimum values using the procedures outlined in subsection 6.4.5 of ASTM D7585 shall be removed by a method approved by the Engineer and reapplied at no additional cost, unless otherwise approved by the Engineer.

**Method of Measurement and Basis of Payment**

Recessed MC pavement markings will be measured per FOOT, complete in place.

Recessed MC pavement markings will be paid for at the contract unit price per FOOT. The contract prices shall include all material, labor, and equipment required or incidental to the satisfactory completion of the work.

PARS No.  
AE ID  
File No.

THE COMMONWEALTH OF MASSACHUSETTS  
DEPARTMENT OF TRANSPORTATION – HIGHWAY DIVISION  
TEN PARK PLAZA – BOSTON, MA

-PRELIMINARY ESTIMATE OF QUANTITIES - DETAIL SHEET-

City: East Longmeadow  
Type: Resurfacing and Related Work

Road: Route 83  
Class:  
Date: 01/28/2026

Unclassified Excavation	275 CY	Gravel Borrow	30 CY
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**PAVEMENT NOTES**

Route 83: Proposed Roadway Pavement Milling and Resurfacing (Connecticut state line to town center).

Area = 76,478 SY

Surface Course: 2.0 in. Superpave Surface Course – 12.5 Polymer (SSC-12.5-P)  
Milling: 2.0 in. Pavement Fine Milling  
Tack Coat: Asphalt emulsion for tack coat shall be applied at 0.07 to 0.09 gal/yd<sup>2</sup> over milled surface.

HMA Driveway

Area = 383 SY

Surface Course: 1.5 in. Superpave Surface Course – 12.5 Polymer (SSC-12.5-P)  
Intermediate Course: 2.5 in. Superpave Surface Course – 12.5 Polymer (SSC-12.5-P)  
Tack Coat: Asphalt emulsion for tack coat shall be applied at 0.06 to 0.08 gal/yd<sup>2</sup> over milled surface.  
Gravel: 8" gravel subbase

Plan No's None  
Profile No's None  
Calc. Book No. None

Estimated By: ECM  
Checked By: RP, EM  
Submitted By:

\_\_\_\_\_  
Patricia Leavenworth, P.E.  
District Two Highway Director

- PRELIMINARY ESTIMATE OF QUANTITIES - DETAIL SHEET -

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**ITEM 120.1 UNCLASSIFIED EXCAVATION**

Excavation for the following:

- For proposed driveway aprons at locations determined by the Engineer.
- For the removal of built-up sediment and debris alongside the roadway to restore country drainage as required by the Engineer.
- Elsewhere as required by the Engineer.

**ITEM 151. GRAVEL BORROW**

Contingency for subbase under proposed HMA driveway aprons at locations where existing gravel is determined unsuitable for reuse.

**ITEM 170. FINE GRADING AND COMPACTING – SUBGRADE AREA**

For fine grading and compacting the subgrade beneath proposed HMA driveway aprons at locations determined by the Engineer.

**ITEM 220. DRAINAGE STRUCTURE ADJUSTED**

**ITEM 220.2 DRAINAGE STRUCTURE REBUILT**

To adjust or rebuild existing drainage structures as required by the Engineer.

**ITEM 220.6 SANITARY STRUCTURE REBUILT**

**ITEM 220.7 SANITARY STRUCTURE ADJUSTED**

To adjust or rebuild existing sanitary structures as required by the Engineer.

**ITEM 358. GATE BOX ADJUSTED**

To adjust gate boxes within the paving limits.

**ITEM 402.14 PAVEMENT MILLING MULCH FOR SHOULDERS**

For filling in low shoulders to restore country drainage as required by the Engineer. Do not excavate, only fill in low spots and compact to I.T. point or a maximum of 3 feet beyond edge of pavement.

**ITEM 415.2 PAVEMENT FINE MILLING**

To fine mill Route 83 within the project limits.

**ITEM 450.231 SUPERPAVE SURFACE COURSE – 12.5 POLYMER (SSC-12.5-P)**

For 2.0" proposed pavement surface course on Route 83 from the Connecticut State Line (MM 0.000) to the Town Center existing pavement joint (MM 3.466).

- PRELIMINARY ESTIMATE OF QUANTITIES - DETAIL SHEET -

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**ITEM 451.**     **HMA FOR PATCHING**

Contingency for making full depth HMA repairs in severely deteriorated areas on the fine milled surface prior to placing surface course HMA as required by the Engineer.

**ITEM 452.**     **ASPHALT EMULSION FOR TACK COAT**

For tack coat on the milled surface and between lifts on HMA driveways.

**ITEM 453.**     **HMA JOINT ADHESIVE**

For sealing all longitudinal and transverse joints in the proposed pavement surface course.

**ITEM 470.3**    **HOT MIX ASPHALT BERM - OPTION**

Contingency for replacing damaged or missing existing HMA curb at locations determined by the Engineer.

**ITEM 472.**     **TEMPORARY ASPHALT PATCHING**

For construction of temporary longitudinal ramps at 50H:1V at milling and paving limits and at other locations as required by the Engineer.

**ITEM 477.2**    **MILLED RUMBLE STRIP (TYPE C)**

To install milled rumble strips along the centerline per the construction details.

**ITEM 702.**     **HOT MIX ASPHALT SIDEWALK OR DRIVEWAY**

For proposed driveway aprons at locations determined by the Engineer.

**ITEM 751.**     **LOAM FOR ROADSIDES**

Contingency item for use as required by the Engineer.

**ITEM 765.**     **SEEDING**

Contingency item for use with item 751. as required by the Engineer.

**ITEM 832.**     **WARNING-REGULATORY AND ROUTE MARKER ALUMINUM PANEL (TYPE A)**

To install regulatory signs at crosswalk located at St. Joseph Street.

- PRELIMINARY ESTIMATE OF QUANTITIES - DETAIL SHEET -

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**ITEM 847.1 SIGN SUP (N/GUIDE)+RTE MKR W/1 BRKWAY POST ASSEMBLY - STEEL**

To install posts for regulatory signs at crosswalk located at St. Joseph Street.

**ITEM 850.41 ROADWAY FLAGGER**

**ITEM 851.1 TRAFFIC CONES FOR TRAFFIC MANAGEMENT**

**ITEM 852. SAFETY SIGNING FOR TRAFFIC MANAGEMENT**

For use with temporary traffic control.

**ITEM 854.016 TEMPORARY PAVING MARKINGS - 6 INCH (PAINTED)**

To reproduce existing pavement markings on the milled surface.

**ITEM 854.036 TEMPORARY PAVING MARKINGS - 6 INCH (TAPE)**

For temporary dashed centerline between travel lanes on the proposed surface course (4' line. 40' on center) until permanent markings are applied.

**ITEM 856. ARROW BOARD**

**ITEM 859. REFLECTORIZED DRUM**

Use for temporary traffic control.

**ITEM 862.406 6-INCH WHITE (WC, UFD, WR) RECESSED**

**ITEM 862.412 12-INCH WHITE (WC, UFD, WR) RECESSED**

**ITEM 862.424 24-INCH WHITE (WC, UFD, WR) RECESSED**

**ITEM 863.506 6-INCH YELLOW (WC, UFD, WR) RECESSED**

Use to install permanent pavement marking lines on the surface pavement course within the project limits per the Markings Sketch and Typical Sections.

**ITEM 864.22 SYMBOLS FOR BICYCLE FACILITIES WET REFLECTIVE (PF)**

For the helmeted bicyclist symbols used in bike lanes.

**ITEM 864.23 ARROWS FOR BICYCLE FACILITIES WET REFLECTIVE (PF)**

Use for proposed arrows in bike lanes.

PROPOSED FINE MILLING AND PAVEMENT OVERLAY

SURFACE: 2.0" SUPERPAVE SURFACE COURSE - 12.5 POLYMER (SSC - 12.5 - P) OVER ASPHALT EMULSION FOR TACK COAT (RS-1H) WITH AN APPLICATION RATE OF 0.07 - 0.09 GAL/SY OVER MILLED SURFACE

MILLING: 2.0" PAVEMENT FINE MILLING

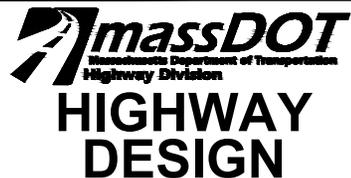
HOT MIX ASPHALT DRIVEWAY

SURFACE: 1.5" SUPERPAVE SURFACE COURSE - 12.5 POLYMER (SSC-9.5)

INTERMEDIATE: 2.5" SUPERPAVE SURFACE COURSE - 12.5 POLYMER (SSC-9.5)

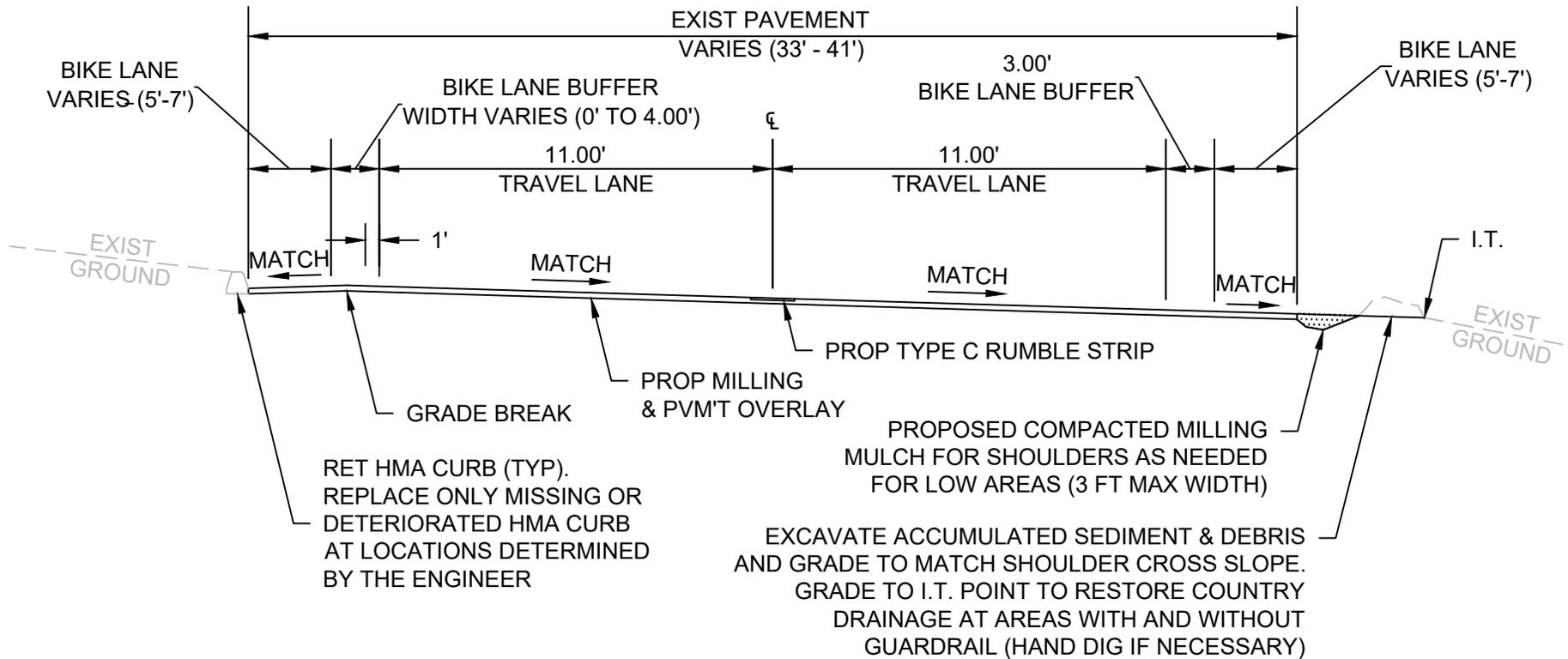
ASPHALT EMULSION FOR TACK COAT (RS-1H) WITH AN APPLICATION RATE OF 0.06 - 0.08 GAL/SY OVER INTERMEDIATE COURSE

EXISTING GRAVEL MATERIAL SUITABLE FOR REUSE SHALL BE RETAINED WHERE POSSIBLE. GRAVEL BORROW SUITABLE FOR REUSE MUST BE IN REASONABLY CLOSE CONFORMITY WITH MASSDOT MATERIAL SPECIFICATION M.1.03.0 (TYPE B), OTHERWISE REPLACE WITH 8" GRAVEL BORROW (TYPE B).

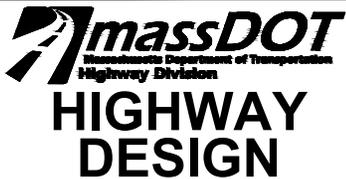


PAVEMENT NOTES  
EAST LONGMEADOW - SR 83

DRAWN BY: ECM	DATE: 01-05-2026
DATE: 06-10-25	SCALE: NTS
CHECKED BY: RMP	PROJECT NO.:
DATE: 08-15-2025	SHEET: 1 OF 8

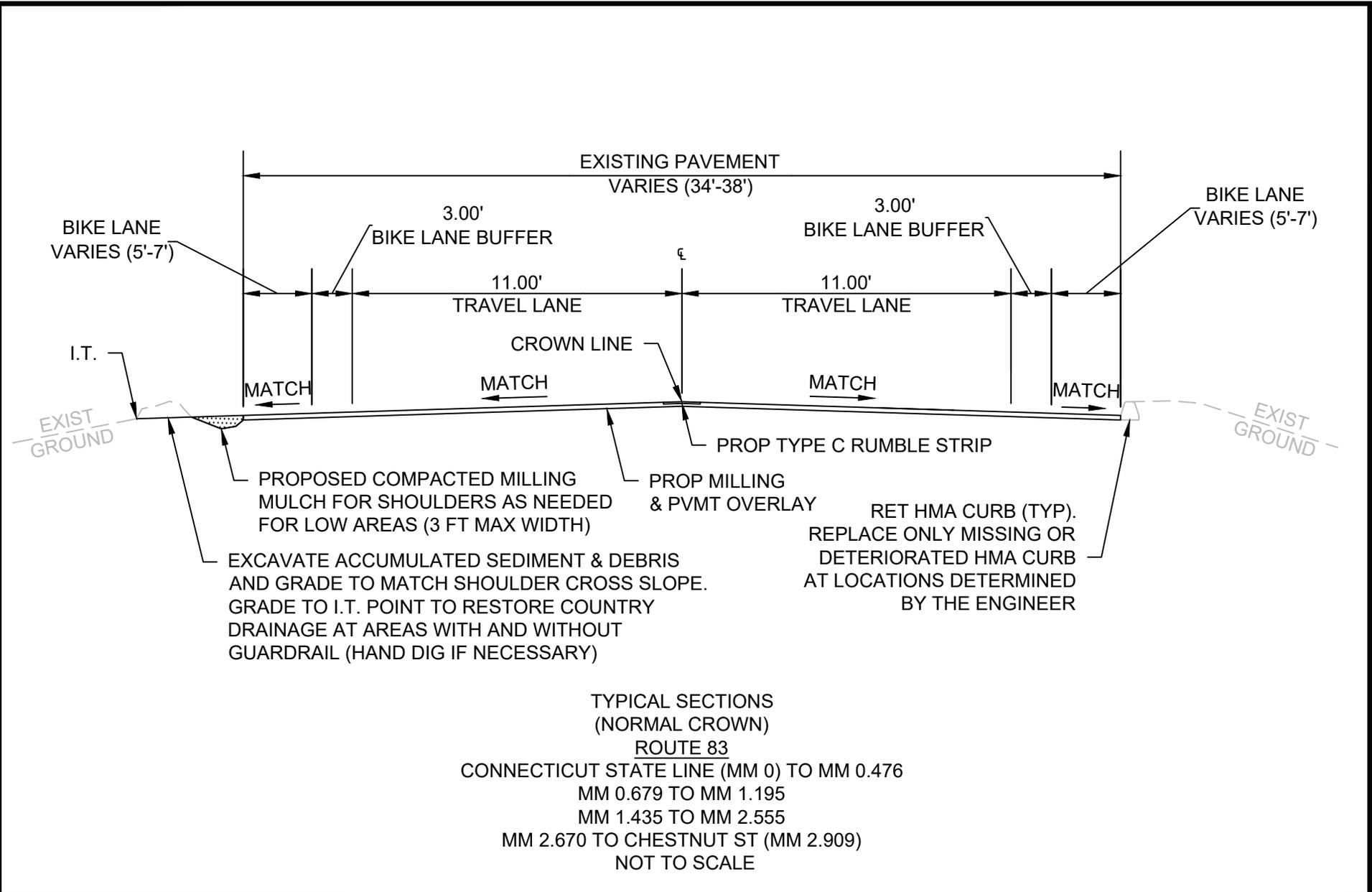


TYPICAL SECTIONS  
 (SUPERELEVATION)  
 ROUTE 83  
 MM 0.476 TO MM 0.679  
 MM 1.195 TO MM 1.435  
 MM 2.555 TO MM 2.670 NOT TO SCALE

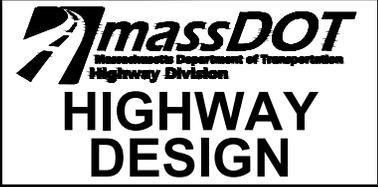


**TYPICAL SECTIONS**  
**EAST LONGMEADOW - SR 83**

DRAWN BY: ECM	DATE: 01-05-2026
DATE: 06-10-25	SCALE: NTS
CHECKED BY: RMP	PROJECT NO.:
DATE: 06-17-2025	SHEET: 2 OF 8

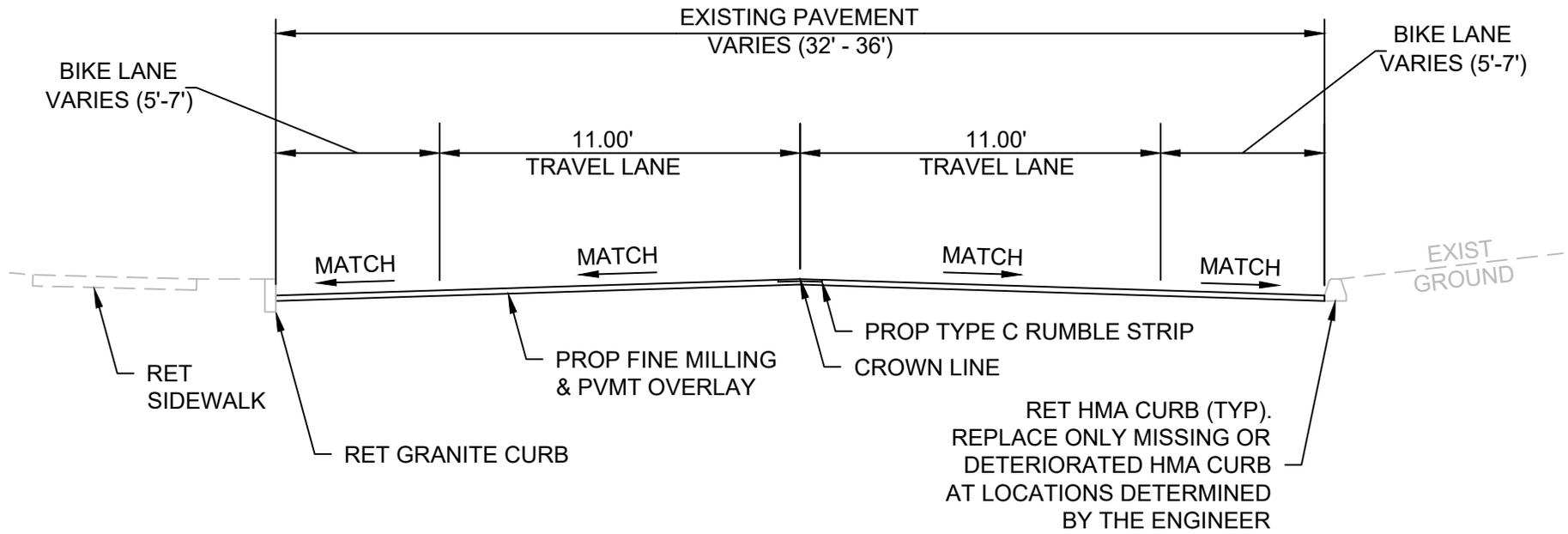


TYPICAL SECTIONS  
(NORMAL CROWN)  
ROUTE 83  
CONNECTICUT STATE LINE (MM 0) TO MM 0.476  
MM 0.679 TO MM 1.195  
MM 1.435 TO MM 2.555  
MM 2.670 TO CHESTNUT ST (MM 2.909)  
NOT TO SCALE

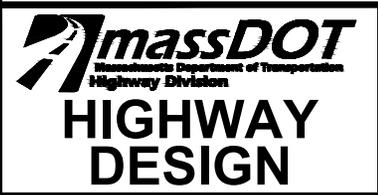


**TYPICAL SECTIONS**  
**EAST LONGMEADOW - SR 83**

DRAWN BY: ECM	DATE: 01-05-2026
DATE: 06-10-25	SCALE: NTS
CHECKED BY: RMP	PROJECT NO.:
DATE: 06-17-2025	SHEET: 3 OF 8

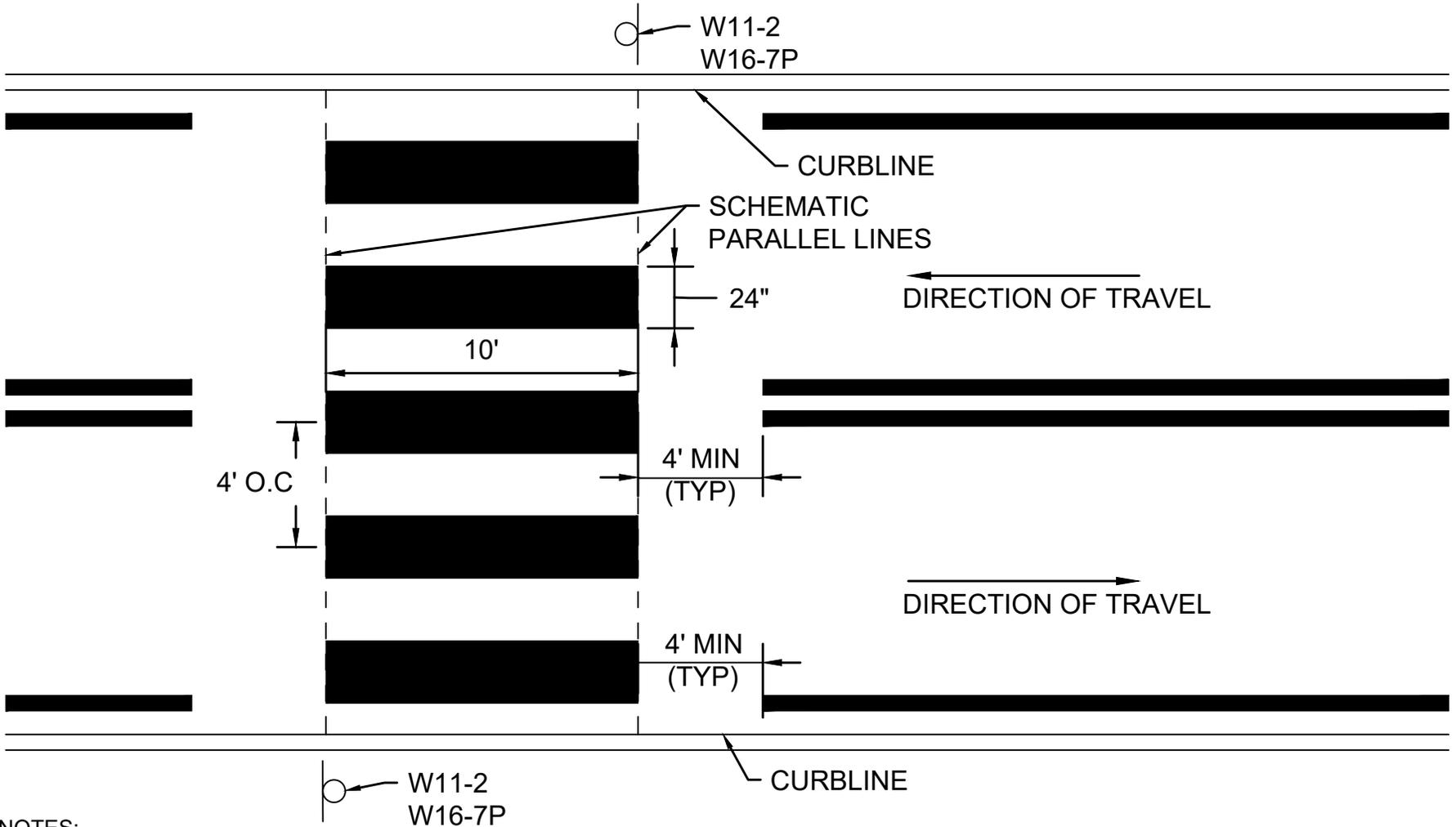


TYPICAL SECTIONS  
 (NORMAL CROWN)  
ROUTE 83  
 CHESTNUT ST (MM 2.909) TO TOWN CENTER (MM 3.466)  
 NOT TO SCALE



**TYPICAL SECTIONS**  
**EAST LONGMEADOW - SR 83**

DRAWN BY: ECM	DATE: 01-05-2026
DATE: 06-10-25	SCALE: NTS
CHECKED BY: RMP	PROJECT NO.:
DATE: 06-17-2025	SHEET: 4 OF 8

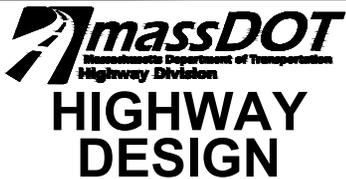


**NOTES:**

1. ALL 24" LINES SHALL BE APPLIED IN ONE APPLICATION, NO COMBINATION OF LINES (E.G. FOUR - 6" LINES) WILL BE ACCEPTED.
2. LAYOUT OF CROSSWALKS SHALL BE ORIENTATED IN THE DIRECTION OF TRAVEL AND LOCATED OUTSIDE OF THE WHEEL PATH OF VEHICLES.

**DIMENSIONS FOR CROSSWALK PAVEMENT MARKINGS**

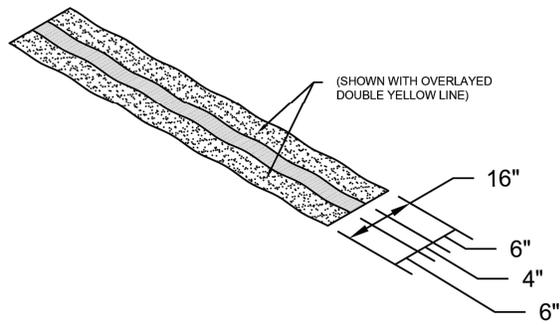
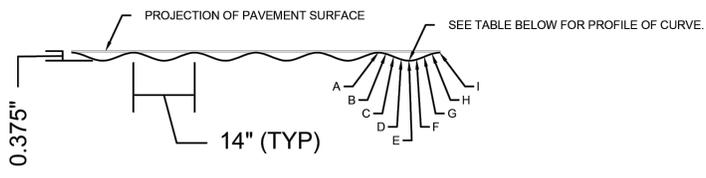
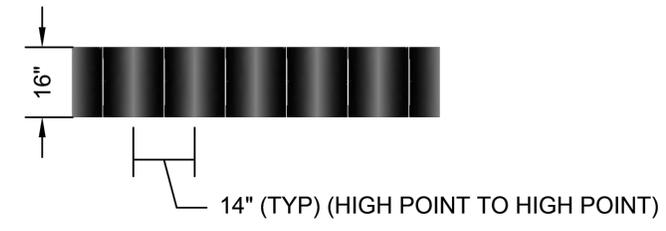
NOT TO SCALE



**DETAILS**  
**EAST LONGMEADOW - SR 83**

DRAWN BY: ECM	DATE: 01-05-2026
DATE: 08-20-2025	SCALE: NTS
CHECKED BY: RMP	PROJECT NO.:
DATE: 08-21-2025	SHEET: 5 OF 8

## TYPE C CONTINUOUS SINUSOIDAL RUMBLE STRIP



DESIGN OF CURVE PROFILE FOR SINUSOIDAL RUMBLE STRIP									
POINT	A	B	C	D	E	F	G	H	I
DEPTH FROM PAVEMENT SURFACE (IN.)	$\frac{1}{16}$	$\frac{1}{8}$	$\frac{7}{32}$	$\frac{11}{32}$	$\frac{3}{8}$	$\frac{11}{32}$	$\frac{7}{32}$	$\frac{1}{8}$	$\frac{1}{16}$
DISTANCE FROM HIGH POINT "A" (IN.)	0	1.75	3.5	5.25	7	8.75	10.5	12.25	14

**NOTES:**

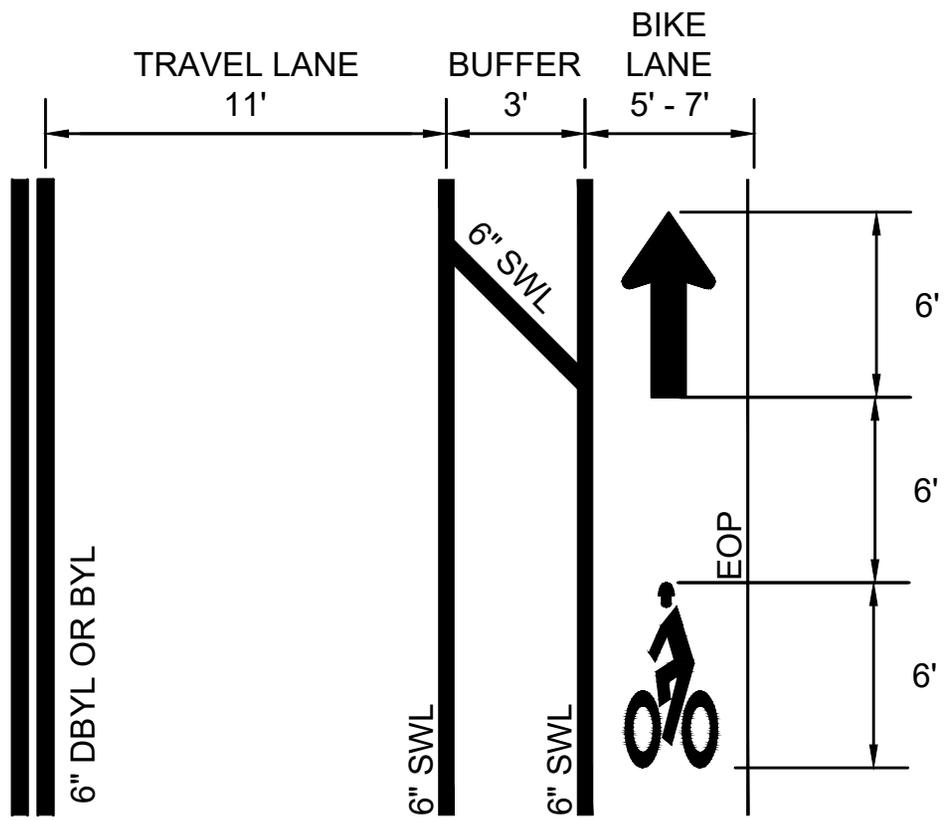
1. NOT TO SCALE. SOME LINE WORK EXAGGERATED FOR CLARITY.
2. SEE PLANS FOR LOCATION(S) AND START AND END STATIONS FOR ALL RUMBLE STRIP INSTALLATIONS.
3. HIGH POINT OF SINUSOIDAL RUMBLE STRIP LOCATED  $\frac{1}{16}$ " BELOW PAVEMENT SURFACE.



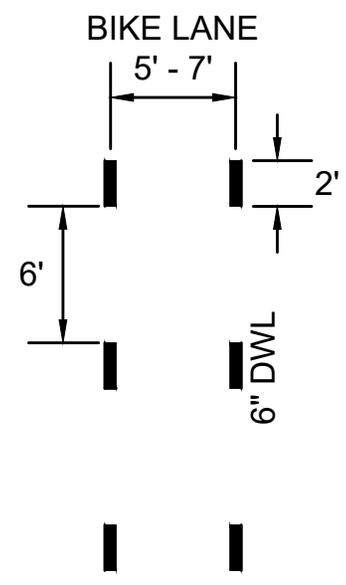
DETAILS  
EAST LONGMEADOW  
SR 83

DRAWN BY: ECM	DATE: 01-05-2026
DATE: 08-20-2025	SCALE: NTS
CHECKED BY: RPM	PROJECT NO.:
DATE: 08-21-2025	SHEET 6 OF 8

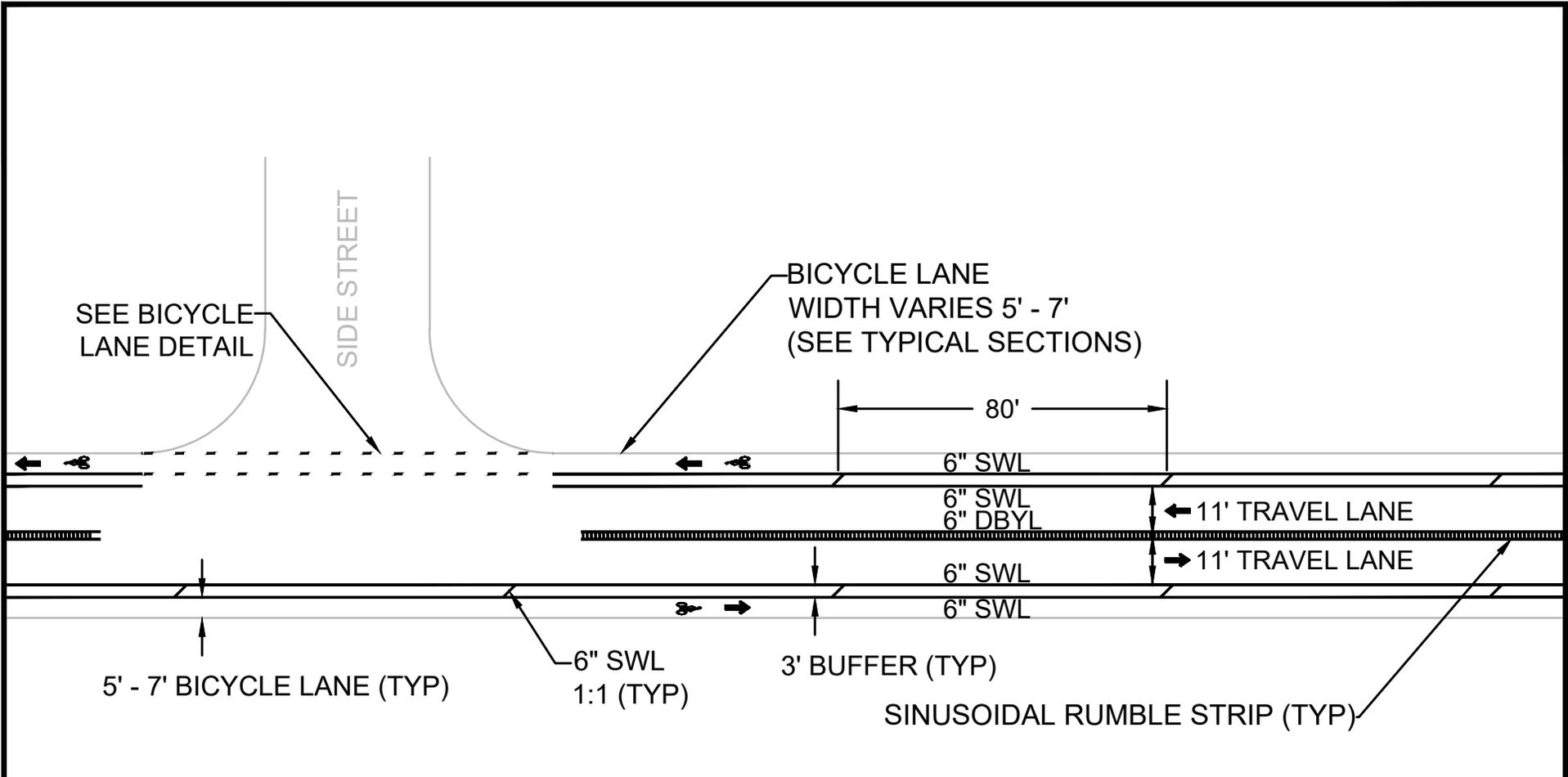
DRAWN BY: ECM	DATE: 01-05-2026
DATE: 08-20-2025	SCALE: NTS
CHECKED BY: RPM	PROJECT NO.:
DATE: 08-21-2025	SHEET 6 OF 8



BICYCLE LANE MARKING



BICYCLE LANE MARKING THROUGH INTERSECTION



NOTES:

1. LOCATE BICYCLE SYMBOL AND ARROW OPPOSITE EACH OTHER IN EB AND WB BICYCLE LANES AT 1000' INTERVALS AND AT EVERY SIDE STREET.
2. INSTALL BUFFER GORE LINES AT 80' INTERVALS.



**DETAILS**  
**EAST LONGMEADOW - SR 83**

DRAWN BY: ECM	DATE: 01-08-2026
DATE: 09-03-2025	SCALE: NTS
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