

Outcome

ACCEPTED WITH COMMENTS

Executive Summary

The Contractor (Ludlow Construction Co., Inc.) has submitted their Baseline Schedule BL02 for the MassDOT Contract #117538 "Roadway Reconstruction and Related Work (Including Signals) on a Section of Union Street (Route 141)" in the Town of Easthampton, MA (District 2). This submission includes a Narrative, Bar Chart Schedules (filtered with all activities and longest path), Projected Spending Report, and Primavera P6 .XER File. Baseline Schedule BL02 has a data date (NTP date) of May 17, 2022 and the electronic copy was received on August 15, 2022. Revised Baseline Schedules are due within fifteen (15) calendar days of receipt of the Engineer's review comments; this submission was received seven (7) calendar days after the Engineer's review comments were issued to the Contractor on August 08, 2022.

Analysis of Baseline Schedule BL02's longest path reflects that Contractor Field Completion is projected on January 21, 2025; two hundred fifty-five (255) calendar days earlier than the October 03, 2025 Contractual date. Full Beneficial Use is projected on December 01, 2024 and Substantial Completion is projected on December 22, 2024; both milestones are not contractually constrained.

It is recommended that Baseline Schedule BL02 be "Accepted with Comments," provided the Contractor address all comments contained within this Review in their next submission. The Contractor shall respond to each comment with the Reviewer's comment above each response. Responses are required for all open comments.

Milestones / Access Restraints

MS/AR Title	Contractual	Original Contract	Current Contract	Contractor Forecast	Variance To Contract
Full Beneficial Use	No			12/01/2024	
Substantial Completion				12/22/2024	
Notice to Proceed (5/17/2022)	Yes	05/17/2022	05/17/2022	05/17/2022	0 Days
Contractor Field Completion (On or Before 10/3/2025)	Yes	10/03/2025	10/03/2025	01/21/2025	255 Days

Critical Path

Describe the contracts critical/longest path.

The Critical Path begins with Notice to Proceed, submittal and review of the Engineer's field office location, and the Engineer's field office is established completing mid-July 2022. The Contractor mobilizes and perform test pits to locate the gas main completing early-August 2022.

The Critical Path then flows through Third-Party Utility work with Eversource Gas relocating 30' of main around CB#20, 30' of main around CBCI#20, 30' of main around GIC#34A, and 30' of main around CBDB#43 completing mid-September 2022. Overhead utility relocations begin with Axia transferring all cables and equipment to new poles, followed by Charter running new strand, running new coax, splicing new coax, delashing/relashing fibers, splicing and activating new plant to existing plant, wrecking out old

strand and coax, performing other transfers, and performing underground vault work and reworking risers completing mid-October 2022. Verizon places pole guywire, places underground and aerial cable, placing terminals/dropwires, splicing/testing/trimming out underground to aerial cable, transferring and relocating all cables and associated equipment to new poles, unlash abandoned aerial cable/relashing remaining aerial cables, placing riser conduits, removing aerial and underground cables, removing terminals and drop wires, and removing guywires completing mid-December 2022. Eversource removes old poles completing mid-December 2022.

Following the 2022-2023 winter shutdown period, the Contractor mobilizes, installs silt sacks, and installs sediment controls completing late-March 2023. Underground utility work begins with the installation of the 12" DIP water main, valves, and appurtenances from STA 218+50 to STA 212+00, STA 212+00 to STA 207+00, and STA 207+00 to STA 200+00, performs pressure testing and chlorination of new water main, installation of hydrants from STA 200+00 to STA 218+50, performing final connections to existing water main/abandon old water main, and connecting water services from STA 200+00 to STA 207+00, STA 207+00 to STA 212+00, and STA 212+00 to STA 218+50 completing early-July 2023. Sanitary sewer connections are then made from STA 200+00 to STA 218+50 completing mid-July 2023. Drainage installation begins on Payson Avenue with installation of the trunkline drainage manholes, pipe, laterals, and catch basins, followed by the installation of the trunkline drainage manholes and pipe on Union Street from STA 218+50 to STA 218+00, then laterals and catch basins on Union Street from STA 218+50 to STA 218+00 completing early-August 2023. Drainage installation continues on Union Street with the installation of the trunkline drainage manholes and pipe from STA 218+00 to STA 200+00 completing early-October 2023. Lateral drainage piping and catch basins are then installed from STA 200+75 to STA 215+50 completing mid-November 2023. Underground electrical conduits are installed for traffic signals at Location 1 and RRFB Locations 1, 2, 3 completing late-November 2023.

Following the 2023-2024 winter shutdown period, full depth construction begins on Union Street with sawcutting and removing existing curbing from STA 200+00 to STA 206+50 RT, sawcutting and removing existing curbing from STA 200+00 to STA 206+50 LT, and excavation, backfilling, fine grading, and paving HMA base course from STA 200+00 to STA 206+50 completing early-April 2024. Full depth construction continues with sawcutting and removing existing curbing from STA 206+50 to STA 211+80 RT, sawcutting and removing existing curbing from STA 206+50 to STA 211+80 LT, and excavation, backfilling, fine grading, and paving HMA base course from STA 206+50 to STA 211+80 completing early-May 2024. Full depth construction on Union Street completes with sawcutting and removing existing curbing from STA 211+80 to STA 216+60 RT, sawcutting and removing existing curbing from STA 211+80 to STA 216+60 LT, and excavation, backfilling, fine grading, and paving HMA base course from STA 211+80 to STA 216+60 late-May 2024.

The Critical Path continues with the installation of temporary pedestrian traffic controls, installation of granite curbing, and excavation, placing, and compacting gravel at shoulders, sidewalks, and driveways from STA 200+00 to STA 206+25, STA 206+25 to STA 211+00, and STA 211+00 to STA 218+50 RT completing late-June 2024. Concrete sidewalks and wheelchair ramps are placed from STA 211+00 to STA 218+50 RT, followed by paving HMA Berm/Curb from STA 211+00 to 218+50 RT completing early-July 2024. Work continues with installation of temporary pedestrian traffic controls, installation of granite curbing, excavation, placing, and compacting gravel at shoulders, sidewalks, and driveways, and placing concrete sidewalks and wheelchair ramps from STA 103+00 to STA 105+10 RT on Payson Avenue completing late-July 2024. Work shifts to the left side of Cottage Street from STA 106+00 to 103+16 LT with sawcutting and removing existing curbing, installation of granite curbing, excavation, placing, and compacting gravel at shoulders, sidewalks, and driveways, and placing concrete sidewalks and wheelchair ramps completing early-August 2024. Concurrently, electrical conduits, pullboxes, and handholes are installed in the sidewalk areas on Cottage Street from STA 106+00 to 103+16 LT completing early-August 2024.

Sidewalk construction continues with installation of temporary pedestrian traffic controls, installation of granite curbing, excavation, placing, and compacting gravel at shoulders, sidewalks, and driveways, and placing concrete sidewalks and wheelchair ramps from STA 218+50 to STA 211+75, STA 211+75 to STA 206+50, and STA 206+50 to STA 200+00 LT completing mid-September 2024. HMA binder is paved on driveways completing late-September 2024.

The Critical Path then flows through project wide roadway finish activities with constructing textured raised crosswalks, installation of remaining sections of granite curbing (as needed), paving intermediate and top course, paving top course at driveways, installation of permanent pavement markings, installation of RRFBs, and the 30-day traffic signal testing and tuning period - Location 1 completing late-November 2024.

The Contractor submits their request for Substantial Completion/Full Beneficial Use, and Full Beneficial Use is achieved on December 01, 2024. MassDOT performs their 21-day Substantial Completion inspection, and Substantial Completion is achieved on December 22, 2024. The Contractor completes punchlist work and demobilizes, and Contractor Field Completion is achieved on January 21, 2025.

Review Question	Answer
What is the current percentage of all unfinished activities that are on the Critical/Longest Path?	40.12%

Comments

A BL0 - C - 003 | Closed in BL2 (Narrative)

Subcontractors to be Utilized: Section 8 'Contractor's Approach to the Project and Planned Resources' of the Narrative provided with the Baseline Schedule BL00 submittal does not appear to include all Subcontractors to be utilized on this project. Please review and ensure all Subcontractors to be utilized are described in the Narrative.

Contractor on 07/26/2022: Section 8 has been revised with this submission to include descriptions of planned subcontractors utilized in this schedule.

MassDOT on 08/03/2022: Acknowledged. However, the Structure Adjustment Subcontractor has not been included under Section 8 'Contractor's Approach to the Project and Planned Resources' of the Narrative provided with the Baseline Schedule BL01 submittal. Please review and ensure all Subcontractors to be utilized are described in the Narrative.

Contractor on 08/15/2022: Comment Acknowledged. Requested Subcontractor has been added to Section 8 of this narrative.

Closed by MassDOT on 08/18/2022: The Structure Adjustment Subcontractor has been added to Section 8 'Contractor's Approach to the Project and Planned Resources' of the Narrative provided with the Baseline Schedule BL02 submittal. Comment Closed.

BL2 - C - 001 | Closed in BL2 (Preliminary)

Baseline Schedule Receipt: Baseline Schedule BL02 was received on August 15, 2022, which is seven (7) calendar days after Baseline Schedule BL01 review comments were issued to the Contractor on August 08, 2022. Revised Baseline Schedules submissions are expected within fifteen (15) calendar days after receipt of the Engineer's review comments. This schedule was received within the allotted timeframe specified by the Contract Specifications. Failure to submit a schedule when and as required can result in the schedule being rejected as a schedule of record and not qualify for payment.

A BL0 - C - 011 (Project Scope)

Curbing Activities:

The following activities are assigned the responsibility of 'S-Curb', but are not listed under the list of items to be performed by Varandas & Sons on Pg. 597 of the Contract Award documents:

- C117538-2790 'Place HMA Berm / HMA Curb (Sta: 200+00 - 206+25 RT) - Union Street'
- C117538-2855 'Place HMA Berm / HMA Curb (Sta: 206+25 - 211+00 RT) - Union Street'
- C117538-2870 'Place HMA Berm / HMA Curb (Sta: 211+00 - 218+50 RT) - Union Street'

Please substantiate if these activities are to be performed by Varandas & Sons, the Paving Subcontractor, or to be self-performed by Ludlow Construction. If these activities are to be performed by the Paving Subcontractor or Ludlow Construction, please revise the responsibility codes accordingly.

In addition, Activity C117538-2145 'Install Remaining Sections of Curbing (As Needed) - Project Wide' is assigned the responsibility of the Linestripping Subcontractor. Please revise the responsibility code of Activity C117538-2145 to correctly reflect who will be performing this work.

Contractor on 07/26/2022: The above-mentioned activities have been revised as requested to include the correct activity codes.

MassDOT on 08/03/2022:

Acknowledged. The following activities have been re-assigned the responsibility of Ludlow Construction:

- C117538-2790 'Place HMA Berm / HMA Curb (Sta: 200+00 - 206+25 RT) - Union Street'
- C117538-2855 'Place HMA Berm / HMA Curb (Sta: 206+25 - 211+00 RT) - Union Street'
- C117538-2870 'Place HMA Berm / HMA Curb (Sta: 211+00 - 218+50 RT) - Union Street'

However, Activity C117538-2145 'Install Remaining Sections of Curbing (As Needed) - Project Wide' is assigned the responsibility of the Curbing Subcontractor. Please clarify if this activity will be self-performed by Ludlow Construction or performed by the Curbing Subcontractor. If this activity is to be self-performed, please review and revise the responsibility code accordingly.

Contractor on 08/15/2022: Comment Acknowledged. Activity 2145 activity code has been revised to Ludlow, as any remaining curbing (if required) will be self-performed.

MassDOT on 08/18/2022: This comment remains open. The description of Activity C117538-2145 has been revised to 'Install Remaining Sections of Granite Curbing (As Needed) - Project Wide.' As all other granite curbing installation activities are to be performed by the Curbing Subcontractor, please clarify if this activity will be self-performed by Ludlow Construction or performed by the Curbing Subcontractor. If this activity is to be performed by the Curbing Subcontractor, please review and revise the responsibility code accordingly.

A BL0 - C - 015 (Project Scope)

Contractual Submittals Not Included in the Schedule:

Baseline Schedule BL00 does not include submittal and review activities for the following contractually required submittals:

- Item 181.11-181.14 Disposal of Soil: Characterization Reports, Excavation and Stockpiling Protocol, Proposed Soil Disposal Locations, Transportation Info of Licensed Haulers, Material Tracking Templates (Pg. 253-254)
- Item 182.2 Removal of Asbestos: Asbestos Removal Permits, Asbestos Removal Plan/Qualifications (Pg. 261-262)
- Item 183.1 Treatment of Contaminated Groundwater: Disposal of Contaminated Groundwater Permits, Dewatering and Groundwater Treatment and Disposal Plan (Pg. 265)
- Item 250.06-250.12 6" & 12" PVC Sanitary Sewer Pipe: Shop Drawings of Materials and Structures (Pg. 272), Sanitary Sewer Proposed Go/No Go Gauge Drawings (Pg. 274), Sanitary Sewer Bypass Plan (Pg. 404)
- Item 220.95-257: Sanitary Sewer Pipe Lining Plan/Manufacturers Data/Testing Data/MSDS (Pg. 420-421)
- Item 301.06 - 384: Water Main Layout & Design Details, Water Main Chlorination Procedure & MSDS, Water Main Pressure & Leakage Testing Procedure (Pg. 279-280)
- Item 783.639 – 796.763 Plantings: Nursery Supplier Lists & Confirmation of Availability, Watering Schedule, Soil Testing Equipment & Methods, Tagging Schedule (Pg. 465-466 of 2022 Supplemental Specifications)
- Item 864.031 - 864.037: Preformed Thermoplastic Material Shop Drawings (Pg. 368)
- Item 865.2 Pavement Surface Coating: Qualifications, Shop Drawings, Samples (Pg. 374)

Please refer to the Contract Award documents, and add submittal and review activities to the Schedule for all contractually required submittals.

Contractor on 07/26/2022:

- - Item 181.11-181.14 has been revised for BL01
- - Item 182.2 has been added to submittals for BL01
- - Item 183.1 has been revised for BL01
- - Item 250.06-250.12 has been added to submittals for BL01
- - Item 301.06-384 has been revised for BL01
- - Item 783.639-796.763 has been revised for BL01
- - Item 864.031-864.037 has been added to submittals for BL01
- - Item 865.2 has been added to submittals for BL01

MassDOT on 08/03/2022:

The following submittal activities have been added to Baseline Schedule BL01 for contractually required submittals:

Item 181.11-181.14 Disposal of Soil:

- The description of Activity C117538-1075 was revised to 'P&S Soil Disposal Protocols, Locations, Licenses & Tracking Templates'
- C117538-3675 'R&A Soil Disposal Protocols, Locations, Licenses & Tracking Templates'

Item 182.2 Removal of Asbestos:

- C117538-3480 'P&S Removal of Asbestos Qualifications (If Needed)'
- C117538-3485 'R&A Removal of Asbestos Qualifications (If Needed)'

Item 183.1 Treatment of Contaminated Groundwater:

- Description of Activity C117538-1080 was revised to 'P&S Excavation Dewatering, Treatment & Disposal Plan'
- Description of Activity C117538-1290 was revised to 'R&A Excavation Dewatering, Treatment & Disposal Plan'
- Activity C117538-3680 'Contractor Secures Dewatering Permits (If Needed)'

Item 250.06-250.12 6" & 12" PVC Sanitary Sewer Pipe:

- C117538-3490 'P&S PVC Sanitary Sewer Pipe Shop Drawings'
- C117538-3495 'R&A PVC Sanitary Sewer Pipe Shop Drawings'
- C117538-3500 'Procure & Deliver PVC Sanitary Sewer Pipe'

Item 301.06 - 384: Water Main Layout & Design Details, Water Main Chlorination Procedure & MSDS, Water Main Pressure & Leakage Testing Procedure (Pg. 279-280)

- C117538-3685 'P&S Ductile Iron Water Pipe Layout, Chlorination & Testing'
- C117538-3690 'R&A Ductile Iron Water Pipe Layout, Chlorination & Testing'

Item 783.639 – 796.763 Plantings:

- C117538-3700 'a' (Please note this activity name was made in error and was revised to P&S 'Planting and Soil Testing Methodology, Schedules & Availability Information' in Schedule Update UP01)
- C117538-3705 'R&A Planting and Soil Testing Methodology, Schedules & Availability Information'

Item 864.031 - 864.037: Preformed Thermoplastic Material Shop Drawings

- C117538-3505 'P&S Thermoplastic Line Striping Shop Drawings'
- C117538-3510 'R&A Thermoplastic Line Striping Shop Drawings'

Item 865.2 Pavement Surface Coating: Qualifications, Shop Drawings, Samples

- C117538-3515 'P&S Pavement Surface Coating Shop Drawings'
- C117538-3520 'R&A Pavement Surface Coating Shop Drawings'

However, Baseline Schedule BL01 does not contain submittal activities for the following contractually required submittals:

- Item 250.06-250.12 6" & 12" PVC Sanitary Sewer Pipe: Sanitary Sewer Proposed Go/No Go Gauge Drawings (Pg. 274), Sanitary Sewer Bypass Plan (Pg. 404)
- Item 220.95-257: Sanitary Sewer Pipe Lining Plan/Manufacturers Data/Testing Data/MSDS (Pg. 420-421)

Please refer to the Contract Award documents, and add submittal and review activities to the Schedule for all contractually required submittals.

Contractor on 08/15/2022: Activities have been added to track Contractor submissions for Item 220.95-257. The description for Item 250.06 – 250.12 Contractor submissions has been revised for clarification. This item will be submitted as a package to include all required data by MassDOT in one submittal package.

MassDOT on 08/18/2022:

Acknowledged. Activities C117538-3710 'P&S Sanitary Sewer Pipe Lining Plan & Product Data' and C117538-3715 'R&A Sanitary Sewer Pipe Lining Plan & Product Data' have been added to Baseline Schedule BL02.

However, the descriptions of Activity C117538-3490 and C117538-3495 remain 'P&S PVC Sanitary Sewer Pipe Shop Drawings' and 'R&A PVC Sanitary Sewer Pipe Shop Drawings.' Please revise these activity descriptions to include the Sanitary Sewer Bypass Plan for clarification.

A BL0 - C - 023 (Project Scope)

Full Depth Construction Locations:

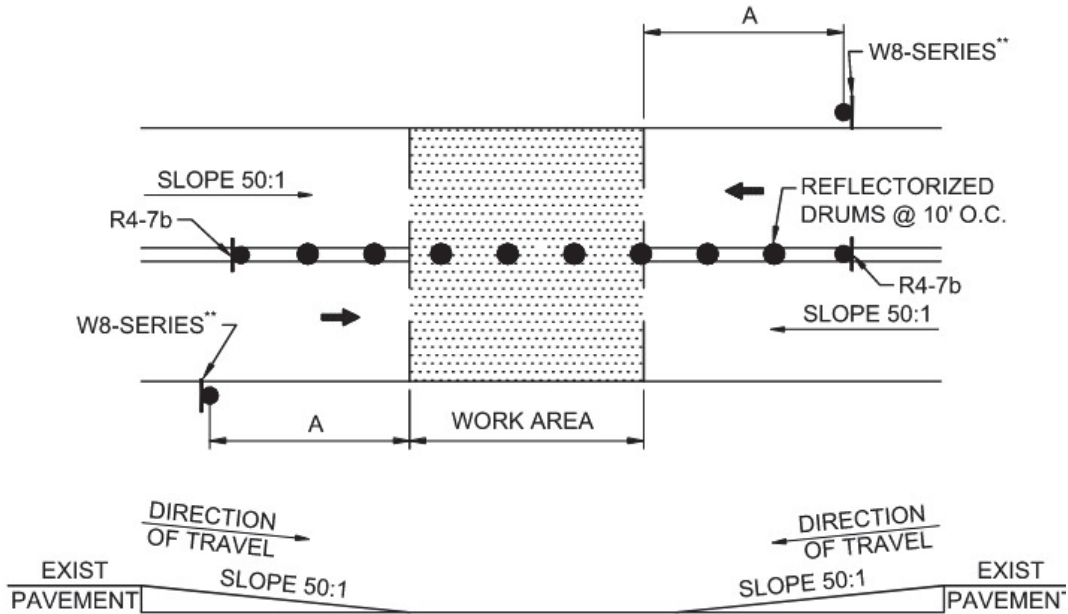
Baseline Schedule BL00 reflects the full depth reconstruction will be performed along the entire right side of Union Street, then the entire left side of Union Street. Note 1 under 'Full Depth Pavement and Sidewalk Construction Along Union Street' on Plan Sheet 25 states: "CONTRACTOR SHALL LIMIT FULL DEPTH PAVEMENT CONSTRUCTION TO ONE SEGMENT AT A TIME. UNION STREET SHALL BE DIVIDED INTO 3 SEGMENTS: 1) HIGH STREET TO CHAPMAN STREET, 2) CHAPMAN STREET TO LIBERTY STREET, AND 3) LIBERTY STREET TO PAYSON AVENUE." In addition, Note 1 under 'Temporary Pavement Transition' on Plan Sheet 25 states: "Square off the full width of the roadway at the end of work day." Please revise the Schedule to reflect full depth reconstruction will be completed from High Street to Chapman Street, Chapman Street to Liberty Street, and Liberty Street to Payson Avenue, with each section being completed entirely through paving binder course before proceeding to the next section.

Contractor on 07/26/2022: Sequence for roadwork has been revised to be performed in 3 sections as requested.

MassDOT on 08/03/2022:

Acknowledged. Full Depth Reconstruction activities on Union Street have been divided into three segments: STA 200+00 to STA 206+50 (High Street to Chapman Street), STA 206+50 to STA 211+80 (Chapman Street to Liberty Street), and STA 211+80 to STA 216+60 (Liberty Street to Payson Avenue). It is noted that the stationing is incorrect. The project limits for full depth reconstruction start at STA 200+50 and end at STA 218+50. Please review and ensure the WBS and activity descriptions accurately reflect the stationing shown on the Plans.

In addition, it is noted that full depth reconstruction is being performed on first the right, then left side of each section of Union Street. Note 1 under 'Temporary Pavement Transition' on Plan Sheet 25 states: "Square off the full width of the roadway at the end of the work day." Please review and revise to reflect that full depth construction will be completed full width in accordance with Plan Sheet 25.



NOTES:

1. SQUARE OFF THE FULL WIDTH OF THE ROADWAY AT THE END OF WORK DAY
2. ** CONTRACTOR SHALL INSTALL W8-1, W8-3, OR W8-8 SIGN, AS APPROPRIATE, ON ALL ROADWAYS IN ADVANCE OF THE TRANSITION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

TEMPORARY PAVEMENT TRANSITION

SCALE: NTS

Contractor on 08/15/2022: Acknowledged. Section Descriptions have been revised to reflect the correct stationing. Also, the sequence for full depth reconstruction work has been revised to meet MassDOT's requests.

MassDOT on 08/18/2022:

Acknowledged. The following activities have been deleted from Baseline Schedule BL02:

- C117538-3580 'Excavate, Backfill & Fine Grade for Full Depth Reconstruction (Sta: 206+50 - 200+00 LT) - Union Street'
- C117538-3590 'Place HMA Binder Course (Sta: 206+50 - 200+00 LT) - Union Street'
- C117538-3620 'Excavate, Backfill & Fine Grade for Full Depth Reconstruction (Sta: 211+80 - 206+50 LT) - Union Street'
- C117538-3630 'Place HMA Binder Course (Sta: 211+80 - 206+50 LT) - Union Street'
- C117538-3660 'Excavate, Backfill & Fine Grade for Full Depth Reconstruction (Sta: 216+60 - 211+80 LT) - Union Street'
- C117538-3670 'Place HMA Binder Course (Sta: 216+60 - 211+80 LT) - Union Street'

The original durations and descriptions of the following activities have been revised to reflect that full depth construction will be completed full width across Union Street:

- C117538-3095 'Excavate, Backfill & Fine Grade for Full Depth Reconstruction (Sta: 200+00 - 206+50) - Union Street' - OD = 5 days
- C117538-3585 'Place HMA Base & Binder Course (Sta: 200+00 - 206+50) - Union Street' - OD = 2 days
- C117538-3605 'Excavate, Backfill & Fine Grade for Full Depth Reconstruction (Sta: 206+50 - 211+80) - Union Street' - OD = 5 days
- C117538-3625 'Place HMA Binder Course (Sta: 206+50 - 211+80) - Union Street' - OD = 2 days
- C117538-3645 'Excavate, Backfill & Fine Grade for Full Depth Reconstruction (Sta: 211+80 - 216+60) - Union Street' - OD = 5 days
- C117538-3665 'Place HMA Binder Course (Sta: 211+60 - 216+60) - Union Street' - OD = 2 days

However, the stationing in the activity descriptions remains incorrect. The project limits for full depth reconstruction start at STA 200+50 and end at

STA 218+50

Please review and ensure the WBS and activity descriptions accurately reflect the stationing shown on the Plans.

A BL0 - C - 027 (Project Scope)

Underground Water & Drainage Activities: The durations of underground water and drainage activities appear to be aggressive for the scope of work to be performed, and working around the numerous other underground utilities on Union Street. Please confirm that drainage and water main installation activities can be performed in the durations provided, or review and revise accordingly.

Contractor on 07/26/2022: Durations for water and drainage activities have been increased as requested. However, it is expected that the Contractor will meet the originally provided durations.

MassDOT on 08/03/2022: Acknowledged. The original durations of water main installation activities have been increased by two (2) days, and the original durations of drainage installation activities have been increased by one (1) day in Baseline Schedule BL01. These durations continue to appear aggressive for the scope of work to be performed and working around the other numerous other underground utilities, however the Contractor has confirmed they can complete work in the durations provided. Any delays due to work not being able to be performed as schedule will be the responsibility of the Contractor to recover. Please acknowledge understanding of this.

Contractor on 08/15/2022: Comment Acknowledged. Durations for underground utility installations has been increased to allow adequate time for this work. Due to the increase in these durations, the full depth reconstruction work has been pushed to a start in Spring 2024, as requested.

MassDOT on 08/18/2022:

The original durations of water main installation activities have been increased by two (2) days, and the original durations of drainage installation activities have been increased by one (1) day.

The Department takes exception to the Contractor's response above. Please note that the Department did not request the Contractor to push out full depth reconstruction work until the Spring of 2024. The Department requested the Contractor confirm that all sections of roadway opened up for full depth reconstruction will be paved prior to the 2023-2024 winter shutdown period as an unpaved surface would not be permitted over the winter months. Please acknowledge understanding of this.

A BL1 - C - 005 (Project Scope)

Traffic Signal and Electrical Subcontractors: Baseline Schedule BL01 contains submittal and approval activities for both Electrical and Traffic Signal Subcontractors. It is noted that only a Traffic Signal Subcontractor is described under Section 8 of the Narrative provided with the Baseline Schedule BL01 submittal. Please clarify if two different Subcontractors are going to be utilized for electrical and traffic signal construction activities, or review and revise accordingly.

Contractor on 08/15/2022: Section 8 of this narrative has been revised to include a Site Electrical Subcontractor. The Traffic Signal Subcontractor will be responsible for Traffic Signal related work. Any miscellaneous site electrical work may be performed by an additional subcontractor.

MassDOT on 08/18/2022: Acknowledged. However, there are numerous activities that are assigned the work type of Traffic Signal work but assigned the responsibility of the Site Electrical Subcontractor. It is unclear which activities are to be performed by which Subcontractor. Please substantiate on what specific activities the Traffic Signal Subcontractor will perform and what specific activities the Electrical Subcontractor will perform, and review and revise the work type and responsibility codes accordingly.

A BL2 - C - 004 (Project Scope)

HMA Binder/Intermediate Course:

In addition, the following activity descriptions appear to incorrectly reference paving the binder course (intermediate course) instead of paving the base course:

- C117538-3585 'Place HMA Base & Binder Course (Sta: 200+00 - 206+50) - Union Street'
- C117538-3625 'Place HMA Binder Course (Sta: 206+50 - 211+80) - Union Street'
- C117538-3665 'Place HMA Binder Course (Sta: 211+60 - 216+60) - Union Street'
- C117538-2815 'Place HMA Binder at Driveway Aprons (Sta: 200+00 - 206+25 RT) - Union Street'
- C117538-2850 'Place HMA Binder at Driveway Aprons (Sta: 206+25 - 211+00 RT) - Union Street'
- C117538-3065 'Place HMA Binder at Driveway Aprons (Sta: 206+50 - 200+00 LT) - Union Street'
- C117538-2895 'Place HMA Binder at Driveway Aprons (Sta: 211+00 - 218+50 RT) - Union Street'
- C117538-3035 'Place HMA Binder at Driveway Aprons (Sta: 211+75 - 206+50 LT) - Union Street'
- C117538-3000 'Place HMA Binder at Driveway Aprons (Sta: 218+50 - 211+75 LT) - Union Street'

Please revise the activity descriptions to reference paving the base course, not the binder course for clarification accordingly.

A BL0 - C - 012 | Closed in BL2 (Project Scope)

Work Type Activity Codes:

The following activities appear to have work type activity codes that have been incorrectly assigned:

- C117538-1490 'Install Tree & Plant Protection Fencing - Project Wide' - Assigned E&S, appears to be Treework
- C117538-2630 'Perform Existing Sewer Main Video & Cleaning - Union Street' - Assigned Water, Should be Sanitary Sewer
- C117538-2635 'Perform Cast-In-Place Pipe Lining Operations - Union Street' - Assigned Water, Should be Sanitary Sewer
- C117538-2640 'Perform Existing Sewer Main Video & Cleaning - Cottage Street' - Assigned Water, Should be Sanitary Sewer
- C117538-2645 'Perform Cast-In-Place Pipe Lining Operations - Cottage Street' - Assigned Water, Should be Sanitary Sewer
- C117538-2750 'Install In-Road Electrical Conduits, Trench Patch (Sta: 103+25) - Payson Avenue' - Assigned Drainage, Should be Electrical
- C117538-2755 'Install In-Road Electrical Conduits, Trench Patch (Sta: 500+75 - 501+00) - Williston Avenue' - Assigned Drainage, Should be Electrical
- C117538-2760 'Install In-Road Electrical Conduits, Trench Patch (Sta: 104+75) - Cottage Street' - Assigned Drainage, Should be Electrical
- C117538-3080 'Place Loam at Sideslopes (Sta: 103+00 - 106+00) - Cottage Street' - Assigned Paving, Should be Sitework or Landscaping
- C117538-3070 'Place Loam at Sideslopes (Sta: 200+00 - 218+50 RT) - Union Street' - Assigned Paving, Should be Sitework or Landscaping
- C117538-3075 'Place Loam at Sideslopes (Sta: 200+00 - 218+50 LT) - Union Street' - Assigned Paving, Should be Sitework or Landscaping
- C117538-2145 'Install Remaining Sections of Curbing (As Needed) - Project Wide' - Assigned Linestriping, Should be Curbing
- C117538-2150 '30-Day Waiting Period for Bikeline Surface Treatment' - Assigned Traffic Signal, Should be Linestriping
- C117538-2165 'Install Rectangular Rapid Flashing Beacons - Project Wide' - Assigned Sitework, Should be Electrical
- C117538-2170 'Remove Sediments from Drainage Structures and Pipes - Project Wide' - Assigned Sitework, Should be Drainage
- C117538-3220 'Reset Existing Fencing / Guardrails - Project Wide' - Assigned Sitework, Should be Fencing & Guardrail

Please review and revise the work type activity codes of the above activities accordingly.

Contractor on 07/26/2022: Activity codes have been revised as requested within this submission.

MassDOT on 08/03/2022:

The following activities have been re-assigned to their respective work type activity codes accordingly:

- C117538-1490 'Install Tree & Plant Protection Fencing - Project Wide' - TREE
- C117538-2630 'Perform Existing Sewer Main Video & Cleaning - Union Street' - SEWER
- C117538-2635 'Perform Cast-In-Place Pipe Lining Operations - Union Street' - SEWER
- C117538-2640 'Perform Existing Sewer Main Video & Cleaning - Cottage Street' - SEWER
- C117538-2645 'Perform Cast-In-Place Pipe Lining Operations - Cottage Street' - SEWER
- C117538-2750 'Install In-Road Electrical Conduits, Trench Patch (Sta: 103+25) - Payson Avenue' - ELECT
- C117538-2755 'Install In-Road Electrical Conduits, Trench Patch (Sta: 500+75 - 501+00) - Williston Avenue' - ELECT
- C117538-2760 'Install In-Road Electrical Conduits, Trench Patch (Sta: 104+75) - Cottage Street' - ELECT
- C117538-3080 'Place Loam at Sideslopes (Sta: 103+00 - 106+00) - Cottage Street' - LNDSCP
- C117538-3070 'Place Loam at Sideslopes (Sta: 200+00 - 218+50 RT) - Union Street' - LNDSCP
- C117538-3075 'Place Loam at Sideslopes (Sta: 200+00 - 218+50 LT) - Union Street' - LNDSCP
- C117538-2145 'Install Remaining Sections of Curbing (As Needed) - Project Wide' - CURB
- C117538-2170 'Remove Sediments from Drainage Structures and Pipes - Project Wide' - DRAIN
- C117538-3220 'Reset Existing Fencing / Guardrails - Project Wide' - GRDRAL

However, Activity C117538-2165 'Install Rectangular Rapid Flashing Beacons - Project Wide' remains assigned the work type of Sitework and should be Electrical. Please review and revise the work type activity code of Activity C117538-2165 accordingly.

Contractor on 08/15/2022: Acknowledged. Activity 2165 has been revised to utilize the Electrical activity code.

Closed by MassDOT on 08/18/2022: Activity C117538-2165 'Install Rectangular Rapid Flashing Beacons - Project Wide' has been reassigned the responsibility of the Site Electrical Subcontractor. Comment Closed.

A BL0 - C - 013 | Closed in BL2 (Project Scope)

Jimenez & Son Construction Co., Inc.: Pages 590 - 594 on the Contract Award documents indicate that Jimenez & Son Construction Co., Inc. is to be utilized for adjusting, rebuilding, and remodeling drainage and sewer structures on this project. However, there are no Subcontractor Approval activities in the Schedule for a Structure Adjustment Subcontractor. Please clarify if Jimenez & Son will be utilized on this project. If so, please add Subcontractor submittal and approval activities to the Schedule for Jimenez & Son Construction Co., Inc.. In addition, please add a responsibility code for Jimenez & Son and assign it to corresponding activities in the Schedule.

Contractor on 07/26/2022: Comment acknowledged. Activity codes and subcontractor approval activities have been added to the schedule.

MassDOT on 08/03/2022:

Acknowledged. Activities C117538-3420 'P&S Structure Adjustment Subcontractor Qualifications & Approval Request' and C117538-3425 'R&A Structure Adjustment Subcontractor Qualifications & Approval Request' have been added to Baseline Schedule BL01. In addition, Activity C117538-2125 'Raise, Adjust and Replace In-Road Casting to Final Grage - Project Wide' has been assigned the responsibility of 'S-SADJ' accordingly.

However, Activity C117538-2765 'Rebuild, Remodel & Abandon Existing Utility Structures - Project Wide' also appears to be the responsibility of Jimenez & Son. Please clarify if this activity will be self-performed, or performed by Jimenez & Son. If this activity is to be performed by Jimenez, please review and revise the responsibility code accordingly.

Contractor on 08/15/2022: Activity 2765 has been revised to utilize the Structure Adjustment Subcontractor activity code.

Closed by MassDOT on 08/18/2022: Activity C117538-2765 'Rebuild, Remodel & Abandon Existing Utility Structures - Project Wide' has been reassigned the responsibility of 'S-SADJ' accordingly. Comment Closed.

A BL0 - C - 017 | Closed in BL2 (Project Scope)

Cleaning Drainage Structures: Baseline Schedule BL00 reflects Activity C117538-2170 'Remove Sediments from Drainage Structures and Pipes - Project Wide' is projected to be completed mid-June 2024 along with project finish activities. This is incorrect as drainage structures are to be cleaned prior to the start of drainage installation activities. As stated on Pg. 217 of the Contract Award documents: "Where new pipe is shown on the drawings to be connected into an existing drainage structure to remain, the existing structure shall be first cleaned to remove all mud, debris and other material." Please review and revise logic accordingly so Activity C117538-2170 is performed with project start-up activities, prior to the start of drainage installation activities.

Contractor on 07/26/2022: Activity #2170 has been revised as requested.

MassDOT on 08/03/2022:

Activity C117538-2170 'Remove Sediments from Drainage Structures and Pipes - Project Wide' has been revised as a predecessor to Activity C117538-2650 'Install DMH-37, CB-38, CBCI-40, 41, CIT-39 & Pipe, Trench Patch (Sta: 103+00 - 104+00) - Payson Avenue,' which is the first drainage installation activity.

However, Activity C117538-2170 is tied as a successor to Activity C117538-1200 'Digsafe and Markout Period.' Activity C117538-2170 is now projected to be completed concurrently with Activity C117538-1450 'Install Advanced Warning Construction Signs, Message Boards, Arrow Boards - Project Wide.' This is incorrect as all advanced warning signs should be installed prior to the start of construction. Please review and revise logic accordingly.

Contractor on 08/15/2022: Activity 2170 has been revised to utilize Activity 1450 & 1200 as predecessors.

Closed by MassDOT on 08/18/2022: Activities C117538-1450 'Install Advanced Warning Construction Signs, Message Boards, Arrow Boards - Project Wide' and C117538-1185 'Contractor Project Planning & Mobilization (Following Third Party Utility Relocations)' have been added as predecessors to Activity C117538-2170 'Remove Sediments from Drainage Structures and Pipes - Project Wide' in Baseline Schedule BL02. Comment Closed.

A BL0 - C - 020 | Closed in BL2 (Project Scope)

Contractor Enabling Work: Activity C117538-1195 'Contractor Planning and Mobilization to Perform Test Pits to Locate Gas Main' has a duration of twenty (20) days. The Department disagrees with the duration provided as it appears excessive for performing test pits. Please provide a basis for this duration in accordance with Section 722.61-D of the Contract Special Provisions, or review and revise accordingly.

Contractor on 07/26/2022: Activity #1195 is included to represent the planning and mobilization period for the Contractor to perform necessary TPU Enabling work. Activity #3695 has been added to the schedule to indicate the actual test pits on-site.

MassDOT on 08/03/2022: The original duration of Activity C117538-1195 'Contractor Planning and Mobilization to Perform Test Pits to Locate Gas Main' has been reduced to seventeen (17) days. The Department continues to disagree with the duration provided as this exceeds fourteen (14) days. Please refer to Section 722-61.D of the Contract Special Provisions, and review and revise the duration of Activity C117538-1195 accordingly.

Contractor on 08/15/2022: The duration for Activity for 1195 has been revised as requested.

Closed by MassDOT on 08/18/2022: The original duration of Activity C117538-1195 'Contractor Planning and Mobilization to Perform Test Pits to Locate Gas Main' has been reduced to ten (10) days. Comment Closed.

A BL0 - C - 024 | Closed in BL2 (Project Scope)

Paving Binder Course: Baseline Schedule BL00 shows that full depth reconstruction activities on Union Street are to begin mid-August 2023, but Activities C117538-3150 'Place HMA Binder Course (Sta: 200+00 - 218+50 RT) - Union Street' and C117538-3155 'Place HMA Binder Course (Sta: 218+50 - 200+00 LT) - Union Street' are not projected to be completed until early-October. This indicates that traffic will be driving on an unpaved surface for a month and half. Please refer to review comment 'BL0 - C - 023: Full Depth Construction Locations,' and revise to show paving binder course once full depth reconstruction is completed on each segment of Union Street before proceeding to the next segment.

Contractor on 07/26/2022: Sequence for roadwork has been revised to be performed in 3 sections as requested.

MassDOT on 08/03/2022:

Acknowledged. The following activities have been added to Baseline Schedule BL01 to reflect paving HMA binder course at the completion of full depth reconstruction on each segment of Union Street before proceeding to the next segment:

- C117538-3585 'Place HMA Binder Course (Sta: 200+00 - 206+50 RT) - Union Street'
- C117538-3590 'Place HMA Binder Course (Sta: 206+50 - 200+00 LT) - Union Street'
- C117538-3625 'Place HMA Binder Course (Sta: 206+50 - 211+80 RT) - Union Street'
- C117538-3630 'Place HMA Binder Course (Sta: 211+80 - 206+50 LT) - Union Street'
- C117538-3665 'Place HMA Binder Course (Sta: 211+60 - 216+60 RT) - Union Street'
- C117538-3670 'Place HMA Binder Course (Sta: 216+60 - 211+80 LT) - Union Street'

However, full depth reconstruction from STA 206+50 to STA 211+80 is projected to begin prior to the 2023-2024 winter shutdown period and will not be paved until early-April 2024. This indicates that this section of Union Street will be unpaved throughout the winter months which will not be permitted. Please confirm that all sections of roadway opened up for full depth reconstruction will be paved prior to the 2023-2024 winter shutdown period, or review and revise logic accordingly.

Contractor on 08/15/2022: Acknowledged. This schedule has been revised to allow commencement of full depth reconstruction activities in Spring 2024.

Closed by MassDOT on 08/18/2022: Acknowledged. Full Depth Reconstruction activities are now projected to begin mid-March 2024 due to underground water, drainage, and electrical conduit installation activities now completing late-November 2023. Comment Closed.

A BL0 - C - 026 | Closed in BL2 (Project Scope)

Concurrent Work with Third-Party Utility Relocations:

Baseline Schedule BL00 reflects that Eversource Gas and Aerial Utility Relocations will begin work early-August 2022, but the Contractor will not be mobilizing until mid-March 2023. It is noted that project start-up activities (mobilizing, installation of advanced warning signs, installation of sediment controls, tree trimming and clearing, etc.) will need to be completed prior to the Contractor performing enabling work (Activities C117538-1195 'Contractor Planning and Mobilization to Perform Test Pits to Locate Gas Main' and C117538-1480 'Contractor Completes Proposed Sidewalk Layout at Utility Pole Locations') for Third-Party Utility relocations. Please review and revise accordingly.

As noted on the PUC Form, the Contractor is permitted to work on-site concurrently with the Third-Party Utility companies, but not in the same vicinity. Please confirm it is the Contractor's intent to not work concurrently with the Third-Party Utility companies and not begin any physical construction work until March 2023, or review and revise logic accordingly.

Contractor on 07/26/2022: The Contractor intends to perform all required enabling work with a smaller crew as needed to get Third Party Utility work started. This is represented by Activities included under the Third-Party Relocation fragment; 'Notifications & Enabling Work'. The intention of the Contractor is to not mobilize heavy equipment until the Third-Party work has completed.

MassDOT on 08/03/2022: Acknowledged. However, Baseline Schedule BL01 continues to reflect that installation of advanced warning signs will need not be completed until late-March 2023. This is incorrect as advanced warning signs should be installed prior the Contractor performing enabling work (Activities C117538-1195 'Contractor Planning and Mobilization to Perform Test Pits to Locate Gas Main', C117538-3695 'Perform Test Pits at Gas Main Locations as Required,' and C117538-1480 'Contractor Completes Proposed Sidewalk Layout at Utility Pole Locations') for Third-Party Utility relocations. Please review and revise accordingly to reflect that Activities C117538-1200 'Digsafe Markout & Waiting Period' and C117538-1450 'Install Advanced Warning Construction Signs, Message Boards, Arrow Boards - Project Wide' will be completed prior to Contractor Enabling Work.

Contractor on 08/15/2022: Logic has been revised so that Activity 1450 and 1200 occur prior to any Contractor Enabling Work.

Closed by MassDOT on 08/18/2022: Logic was revised so Activity C117538-1200 'Digsafe Markout & Waiting Period' is now a successor to Activity C117538-1210 'MassDOT Schedule and Hold Preconstruction Meeting,' and Activity C117538-1450 'Install Advanced Warning Construction Signs, Message Boards, Arrow Boards - Project Wide' has been added as a predecessor to Activity C117538-3695 'Perform Test Pits at Gas Main Locations as Required.' Comment Closed.

A BL0 - C - 030 | Closed in BL2 (Project Scope)

Paving HMA Berm: It is noted that Activities C117538-2790 'Place HMA Berm / HMA Curb (Sta: 200+00 - 206+25 RT) - Union Street', C117538-2855 'Place HMA Berm / HMA Curb (Sta: 206+25 - 211+00 RT) - Union Street,' and C117538-2870 'Place HMA Berm / HMA Curb (Sta: 211+00 - 218+50 RT) - Union Street' have been sequenced prior to the start of sidewalk, wheelchair ramps, and driveway construction activities. This logic appears incorrect as the sidewalks, wheelchair ramps, and driveways will have to be constructed prior to paving the HMA berm. Please review and revise logic accordingly.

Contractor on 07/26/2022: Logic has been revised so that HMA Berm will occur following installation of WCR's and Driveway Apron Binder Course.

MassDOT on 08/01/2022:

Activities C117538-2790 'Place HMA Berm / HMA Curb (Sta: 200+00 - 206+25 RT) - Union Street', C117538-2855 'Place HMA Berm / HMA Curb (Sta: 206+25 - 211+00 RT) - Union Street,' and C117538-2870 'Place HMA Berm / HMA Curb (Sta: 211+00 - 218+50 RT) - Union Street' have been tied as successors to placing concrete wheelchair ramp activities at their respective locations.

However, it is noted that Activities C117538-2790, C117538-2855, C117538-2870, and C117538-2145 'Install Remaining Sections of Curbing (As Needed) - Project Wide' each have an original duration of two (2) days, which appears excessive for the small quantity of HMA Berm to be paved - project wide. Item 470. 'Hot Mix Asphalt Berm' has a quantity of five (5) tons per the Contract Award documents. The Department disagrees with the durations provided as they appear excessive for installing five (5) tons of HMA Berm. Please provide a basis for this duration in accordance with Section 722.61-D of the Contract Special Provisions, or review and revise accordingly.

Contractor on 08/15/2022: Activity 2790, 2855 & 2870 have been revised to utilize a 1-day durations. However, Activity 2145 applies to the installation of granite curbing and we feel the provided duration is accurate.

Closed by MassDOT on 08/18/2022:

Acknowledged. The durations of the following activities have been reduced to one (1) day:

- C117538-2790 'Place HMA Berm / HMA Curb (Sta: 200+00 - 206+25 RT) - Union Street'
- C117538-2855 'Place HMA Berm / HMA Curb (Sta: 206+25 - 211+00 RT) - Union Street'
- C117538-2870 'Place HMA Berm / HMA Curb (Sta: 211+00 - 218+50 RT) - Union Street'

Comment Closed.

A BL1 - C - 004 | Closed in BL2 (Project Scope)

Procurement Activities:

Baseline Schedule BL01 reflects the following procurement activities are assigned the responsibility of MassDOT:

- C117538-3500 'Procure & Deliver PVC Sanitary Sewer Pipe'
- C117538-3370 'Procure & Deliver Ductile Iron Water Pipe'
- C117538-3405 'Procure & Deliver Additional Water Supply Materials'

This is incorrect as these activities appear to be the responsibility of Ludlow Construction. Please review and revise the responsibility codes accordingly.

Contractor on 08/15/2022: Activity codes for the above activities have been revised to reflect Ludlow Construction's responsibility.

Closed by MassDOT on 08/18/2022:

The following procurement activities have been reassigned the responsibility of Ludlow Construction:

- C117538-3500 'Procure & Deliver PVC Sanitary Sewer Pipe'
- C117538-3370 'Procure & Deliver Ductile Iron Water Pipe'
- C117538-3405 'Procure & Deliver Additional Water Supply Materials'

Comment Closed.

A BL1 - C - 006 | Closed in BL2 (Project Scope)

Paving Driveways:

Activity C117538-2140 'Place HMA Top Course at Driveways - Project Wide' is assigned the responsibility of the Milling and Paving Subcontractor. However, the following activities are assigned the responsibility of Ludlow Construction:

- C117538-2815 'Place HMA Binder at Driveway Aprons (Sta: 200+00 - 206+25 RT) - Union Street'
- C117538-2850 'Place HMA Binder at Driveway Aprons (Sta: 206+25 - 211+00 RT) - Union Street'
- C117538-2895 'Place HMA Binder at Driveway Aprons (Sta: 211+00 - 218+50 RT) - Union Street'
- C117538-3000 'Place HMA Binder at Driveway Aprons (Sta: 218+50 - 211+75 LT) - Union Street'
- C117538-3035 'Place HMA Binder at Driveway Aprons (Sta: 211+75 - 206+50 LT) - Union Street'
- C117538-3065 'Place HMA Binder at Driveway Aprons (Sta: 206+50 - 200+00 LT) - Union Street'

Please clarify if driveway paving activities are to be self-performed, or performed by the Milling and Paving Subcontractor and adjust responsibility codes accordingly.

Contractor on 08/15/2022: Comment Acknowledged. Activity codes have been revised as this work is intended to be performed by the paving subcontractor.

Closed by MassDOT on 08/18/2022:

The following activities have been reassigned the responsibility of the Milling and Paving Subcontractor:

- C117538-2815 'Place HMA Binder at Driveway Aprons (Sta: 200+00 - 206+25 RT) - Union Street'
- C117538-2850 'Place HMA Binder at Driveway Aprons (Sta: 206+25 - 211+00 RT) - Union Street'
- C117538-2895 'Place HMA Binder at Driveway Aprons (Sta: 211+00 - 218+50 RT) - Union Street'
- C117538-3000 'Place HMA Binder at Driveway Aprons (Sta: 218+50 - 211+75 LT) - Union Street'
- C117538-3035 'Place HMA Binder at Driveway Aprons (Sta: 211+75 - 206+50 LT) - Union Street'
- C117538-3065 'Place HMA Binder at Driveway Aprons (Sta: 206+50 - 200+00 LT) - Union Street'

Comment Closed.

A BL1 - C - 007 | Closed in BL2 (Project Scope)

Electrical Conduit Installation: Baseline Schedule BL01 reflects electrical conduit installation, pull boxes, and handholes at sidewalk areas are to be installed concurrently with placing concrete sidewalks. This indicates that newly placed concrete sidewalks will have to be sawcut to install electrical conduit. Please review and revise logic accordingly to ensure electrical conduit is installed prior to placing concrete sidewalks.

Contractor on 08/15/2022: Comment Acknowledged. Logic for Conduit installation at sidewalk areas has been revised to occur in conjunction with excavation work and prior to placement of concrete.

Closed by MassDOT on 08/18/2022: Acknowledged. Logic has been revised in Baseline Schedule BL02 to show that electrical conduit, pullbox, and handhole installation activities in the sidewalk areas will be performed concurrently with excavation, placing, and compacting gravel for sidewalks. In addition, electrical conduit, pullbox, and handhole installation activities have been added as predecessors to placing concrete sidewalk activities at their corresponding locations. Comment Closed.

A BL0 - C - 004 (Administrative/Settings)

Naming Conventions for Project Schedule Submissions:

Due to the Department's further development and use of the ForECAST Project Controls system, it has become necessary to ensure standardization in the naming conventions of the submission files. Going forward, please ensure all Schedule submission files and the project name in Primavera P6 are named using the following templates:

Project# - Contract# Town Project Description, Submission type# (DD XX-XX-XX) – File Name

Examples: Typical Update Submission

- 606886-108890 Montgomery-Russell I-90 over Route 20 Bridge, Update 01 (DD 03-23-20) – Narrative.pdf
- 606886-108890 Montgomery-Russell I-90 over Route 20 Bridge, Update 01 (DD 03-23-20) – All Activities.pdf
- 606886-108890 Montgomery-Russell I-90 over Route 20 Bridge, Update 01 (DD 03-23-20) – Critical Path.pdf
- 606886-108890 Montgomery-Russell I-90 over Route 20 Bridge, Update 01 (DD 03-23-20) – Resource Utilization.pdf
- 606886-108890 Montgomery-Russell I-90 over Route 20 Bridge, Update 01 (DD 03-23-20) – Top 3 Float Paths.pdf
- 606886-108890 Montgomery-Russell I-90 over Route 20 Bridge, Update 01 (DD 03-23-20) – DASC.pdf
- 606886-108890 Montgomery-Russell I-90 over Route 20 Bridge, Update 01 (DD 03-23-20) – PSR.pdf
- 606886-108890 Montgomery-Russell I-90 over Route 20 Bridge, Update 01 (DD 03-23-20) – PSR.xlsx
- 606886-108890 Montgomery-Russell I-90 over Route 20 Bridge, Update 01 (DD 03-23-20).xer

Contractor on 07/26/2022: Comment Acknowledged.

MassDOT on 07/29/2022:

All files provided with the Baseline Schedule BL01 submittal have been named in accordance with the protocol for MassDOT's ForECAST Project Controls system.

However, the project name in Primavera P6 is: 'Baseline Schedule R01 - MassDOT C117538 Easthampton - Union Street.' Please update the project name in Primavera P6 in accordance with the template for MassDOT's ForECAST Project Controls system:

Project# - Contract# Town Project Description, Submission type# (DD XX-XX-XX) – File Name

Contractor on 08/15/2022: The requested P6 title is too large for the text allowable. In addition, these files are named according to OPCS file structure. However, all files contained in the submission will adhere to the MassDOT's requested file naming structure.

MassDOT on 08/18/2022:

Acknowledged. However, the Baseline Schedule BL02 submittal files have been named with the contract # before the project #. Going forward, please ensure all Schedule submittal files are named using the following template:

Project# - Contract# Town Project Description, Submission type# (DD XX-XX-XX) – File Name

A BL0 - C - 007 | Closed in BL2 (Administrative/Settings)

Work Hours: Per Pg. 204 of the Contract Award documents: "The Contractor shall work from 7:00 AM to 3:30 PM, Monday thru Friday, unless otherwise approved by the Engineer." However, all calendars in Baseline Schedule BL00 have been configured with work hours from 8:00AM to 4:00PM. Please revise the work hours in the Schedule to be from 7:00AM to 3:30PM with a half hour break.

Contractor on 07/26/2022: The Schedule working hours have been revised as requested.

MassDOT on 07/29/2022: The work hours have been revised from 7:00AM to 3:30PM with a half hour break in the 'CAL01 - 7x8 Milestone', 'CAL02 - 5x8 (Holidays)', 'CAL03 - 5x8 (No Winter)', 'CAL04 - 5x8 (Paving)', and 'CAL06 - 5x8 (Planting)' calendars.

It is noted that the 'CAL05 - 5x8 (Gas)' calendar has work hours from 7:00AM to 3:30PM with a half hour break on Monday, then 8:00AM to 4:00PM Tuesday through Friday. Please review and revise the work hours of the 'CAL05 - 5x8 (Gas)' calendar to 7:00AM to 3:30PM with a half hour break Monday through Friday accordingly.

Contractor on 08/15/2022: Comment Acknowledged. The Gas calendar has been revised as requested.

Closed by MassDOT on 08/18/2022: The work hours of the 'CAL05 - 5x8 (Gas)' calendar have been revised to 7:00AM to 3:30PM with a half hour break Monday through Friday accordingly. Comment Closed.

A BL1 - C - 002 | Closed in BL2 (Calendars)

Pressure Testing & Chlorination of Water Main: Activity C117538-3475 'Perform Pressure Testing & Chlorination on New Water Main (Sta: 200+00 - 218+50) - Union Street' was added to Baseline Schedule BL01, but is assigned to the 'CAL01 - 7x8 Milestone' calendar. Please confirm it is the Contractor's and Water Company's intent to perform this work on a 7-day calendar, or review and revise the calendar assignment to the 'CAL03 - 5x8 (No Winter)' calendar accordingly.

Contractor on 08/15/2022: Activity 3475 has been revised to utilize a No Winter calendar.

Closed by MassDOT on 08/18/2022: Activity C117538-3475 'Perform Pressure Testing & Chlorination on New Water Main (Sta: 200+00 - 218+50) - Union Street' was reassigned to the 'CAL03 - 5x8 (No Winter)' calendar accordingly. Comment Closed.

A BL1 - C - 003 | Closed in BL2 (Calendars)

Test Pits: Activity C117538-3695 'Perform Test Pits at Gas Main Locations as Required' was added to Baseline Schedule BL01 and is assigned to the 'CAL02 - 5x8 (Holidays)' calendar. As this activity will require patching with HMA, please consider assigning this activity to the 'CAL03 - 5x8 (No Winter)' or 'CAL04 - 5x8 (Paving)' calendars accordingly.

Contractor on 08/15/2022: Activity 3695 has been revised to utilize a No Winter calendar.

Closed by MassDOT on 08/18/2022: Activity C117538-3695 'Perform Test Pits at Gas Main Locations as Required' was reassigned to the 'CAL03 - 5x8 (No Winter)' calendar accordingly. Comment Closed.

BL2 - C - 002 | Closed in BL2 (General Comments)

General Disclaimer: The comments are intended to be constructive in nature with the sole purpose to aid in the creation of a project schedule that both conforms to the specifications and acts as an effective project management tool. Nevertheless, final acceptance of the CPM schedule by the Owner will not relieve the Contractor of responsibility for performing the work in accordance with Contract requirements, including, but not limited to the milestone dates.

Additionally, omissions and/or errors in the accepted CPM schedule will not excuse performance less than that required by the Contract. Acceptance by the Owner in no way makes the Owner insurer of the CPM schedule's success or liability for time or cost overruns emanating from its shortcomings. Therefore, the Owner hereby disclaims any obligation or liability by reason of acceptance of the CPM schedule.

Finally, the comments contained herein shall not be construed as direction to change the Contractor's means and methods, but rather to assist in the assembly of an acceptable project schedule. The comment section is used to indicate comments and action items for the Contractor's information and action. All comments will remain open until addressed.

BL2 - C - 003 | Closed in BL2 (General Comments)

Short Term Schedule: MassDOT RE and Contractor shall confirm that short term construction schedules are being submitted in accordance with section 722.63 of the contract documents. Please review and acknowledge that all short-term schedules submitted to project staff are reviewed for accuracy prior to submission to ensure that they are effective as a project management tool.

BL2 - C - 005 | Closed in BL2 (General Comments)

Near-Critical Activities:

Near-critical activities are those activities that do not fall on the critical/longest path, but have a total float less than twenty (20) calendar days. Attention is drawn to these activities because a slip in the Schedule could lead to a change in the longest path.

Baseline Schedule BL02 reflects from the data date through the end of June that there are zero (0) near-critical activities.