

**CITY OF NEWTON  
PURCHASING DEPARTMENT**

***CONTRACT FOR PUBLIC WORKS DEPARTMENT  
(M.G.L. Ch. 30, §39M)***

**PROJECT MANUAL:  
INSTALLATION OF CURB EXTENSIONS AT  
ALLEN AVENUE AT PLAINFIELD STREET,  
ALLEN AVENUE AT PINE RIDGE ROAD &  
BEETHOVEN AVENUE AT PURITAN ROAD**

***INVITATION FOR BID #21-24***

**Bid Opening Date: November 12, 2020 at 10:00 a.m.**

**OCTOBER 2020**

**Ruthanne Fuller, Mayor**

**CITY OF NEWTON, MASSACHUSETTS**

**PURCHASING DEPARTMENT**

**INVITATION FOR BID #21-24**

The City of Newton invites sealed bids in accordance with M.G.L. c.30, §39M from Contractors for:

**INSTALLATION OF CURB EXTENSIONS AT ALLEN AVENUE AT PLAINFIELD STREET,  
ALLEN AVENUE AT PINE RIDGE ROAD & BEETHOVEN AVENUE AT PURITAN ROAD**

**Bids** will be received until: **10:00 a.m., Thursday, November 12, 2020\***

at the Purchasing Department, Room 108, Newton City Hall, 1000 Commonwealth Avenue, Newton, MA 02459. Bids will not be accepted nor may submitted bids be corrected, modified or withdrawn after the delaine for bids. Immediately following the deadline for bids, all bids received within the time specified will be publicly opened and read aloud\*

**To promote the health and safety of City workers and the public, Newton City Hall is observing COVID restrictions. The City has adopted the following procedures that may affect your participation in this bid:**

- 1. Bidders who wish to attend the Bid Opening can do so by telephone conference call. To attend, call 617.454.5555. When prompted, enter Participant Passcode 1220#. There will be no in person meetings.**
- 2. Bids not sent by mail or delivered to Room 108 can be dropped off in a locked drop box at the top of the stairs to left of the main door to City Hall. The box will be checked at the scheduled submission deadline.**
- 3. Bids results will be scanned and posted as soon as practicable after the opening. Copies of bids will be available on written request.**

**1. The work under this Contract consists of furnishing all necessary labor, materials and equipment required for the construction of curb extensions (bump outs) at the Allen Ave/Plainfield St and the Allen Ave/Pine Ridge Rd intersections and the construction of a raised intersection at the Beethoven Ave/Puritan Rd intersection. The general work of the contract includes removal and immediate off-site disposal of bituminous concrete by milling and resurfacing the top course of SUPERPAVE asphalt or excavation and full depth construction consisting of a gravel subbase, as needed, and two courses of SUPERPAVE asphalt. The project also includes, reconstruction of sidewalks, installation of granite curbing, construction of ADA compliant curb ramps, reconstruction of a section of an existing driveway, minor drainage improvements, adjustment to castings, loam and seed, application of pavement markings, installation of signs, installation of bollards, removing and resetting of bounds and all other work described in the Contract Documents unless specifically indicated as not to be done.\***

**\* Notice #1:** The quantities represented in this Invitation for Bid are dependent on Massachusetts Department of Transportation (MassDOT) Chapter 90 funding. These monies are customarily allotted, and subsequently apportioned by the City of Newton, on or about April 1 of each calendar year. **Therefore the quantities listed in this Invitation for Bid (IFB) may be revised at the time of the bid award.**

Documents relating to this Invitation for Bids (Contract Documents) will be available online at [www.newtonma.gov/bids](http://www.newtonma.gov/bids) and for pick up at the Purchasing Department after **10:00 a.m., October 29, 2020. Bids must be submitted with one Original and two Copies.**

**Only Contractors that have been prequalified by MassDOT are eligible to bid on this contract. MassDOT will provide a list of Prequalified Construction Contractors to the City of Newton. Bidders will be verified at time of Bid Opening.**

A bid deposit in an amount that is not less than five percent (5%) of the value of the bid, including all add alternates, is required. Bid deposits, payable to the City of Newton, shall be either in the form of a bid bond, or cash, or a certified check on, or a treasurer's or cashier's check issued by, a responsible bank or trust company. Bidders are reminded that the bid deposit covers the City for damages when a bidder withdraws its bid after the bid submission date. **Be advised that to the extent permitted by the law the City will retain all bid deposits for withdrawn bids.**

**The costs of any bond and any insurance required in this Invitation for Bid are the responsibility of the bidder; such costs will not be reimbursed by City and should be included in your bid.**

The City of Newton will award the contract to the lowest eligible and responsible bidder. Please Note: this bid, in accordance with the Chapter 303 Acts of 2008, contains Price Adjustments and new Prevailing Wage requirements. All bidders are required to familiarize themselves with these terms and conditions before submitting a bid.

**The start date is the date on which the Notice to Proceed is issued, which is anticipated to be April 1, 2021, or sooner if weather permits. Time for completion is prior to June 30, 2021.**

All bids are subject to the provisions of M.G.L. c.30, §39M. **Wages are subject** to minimum wage rates determined by the Massachusetts Department of Labor and Industries pursuant to M.G.L. c.149, §26 to 27H. The schedule of wage rates applicable to this contract is included in the bidding documents. In addition, the prevailing wage schedule will be updated annually for all public construction projects lasting longer than one (1) year.

You will be required to pay the rates set out in any updated prevailing wage schedule. Increases in prevailing wage schedules will not be the basis for change order requests. The successful bidder will be required to provide a Certificate of Insurance demonstrating current coverage of the type and amounts set forth in the Project Manual. The successful bidder will be required to furnish a **Labor and Materials Payment Bond** in the amount of **50%** of the contract total. Wages are paid to drivers for all **“on-site”** work.

Once you’ve downloaded this bid from the internet website ([www.newtonma.gov/bids](http://www.newtonma.gov/bids)) I strongly suggest you email ([purchasing@newtonma.gov](mailto:purchasing@newtonma.gov)) your company’s Name, address, EMAIL, phone, fax AND the INVITATION FOR BID NUMBER and Project Title, so that we may add you to the Bidders List and you will be notified of any/all addendums.

The City will reject any and all bids in accordance with the above referenced General Laws. In addition, the City reserves the right to waive minor informalities in any or all bids or to reject any or all bids (in whole or in part) if it be in the public interest to do so.

In the event that any person wishes to attend a bid opening or pre-bid meeting, accessible and reasonable accommodations will be provided to persons requiring assistance. If you need a reasonable accommodation, please contact the city of Newton’s ADA Coordinator, Jini Fairley, at least two business days in advance of the meeting: [jfairley@newtonma.gov](mailto:jfairley@newtonma.gov) or (617) 796-1253. For Telecommunications Relay Service, please dial 711.

CITY OF NEWTON



Nicholas Read  
Chief Procurement Officer  
October 29, 2020

**CITY OF NEWTON**  
**DEPARTMENT OF PURCHASING**  
**INSTRUCTIONS TO BIDDERS**

**ARTICLE 1 - BIDDER'S REPRESENTATION**

- 1.1 Each General Bidder (hereinafter called the "Bidder") by making a bid (hereinafter called "bid") represents that:
1. The Bidder has read and understands the Bidding Documents, Contract Forms, General Conditions, Conditions of the Contract, General Requirements and Project Specification (collectively, referred to as the "Contract Documents") and the bid is made in accordance therewith.
  2. The Bidder has visited the work sites shown in the attached Plans for Traffic Calming at Allen/Plainfield, Allen Pine Ridge & Beethoven/Puritan (Prepared by BETA, Inc. 10-9-20) (hereinafter referred to as the "Limits of Work") and is familiar with the local conditions under which the work has to be performed.
- 1.2 Failure to so examine the Contract Documents and work sites will not relieve any Bidder from any obligation under the bid as submitted.

**ARTICLE 2 - REQUEST FOR INTERPRETATION**

- 2.1 Bidders shall promptly notify the City of any ambiguity, inconsistency, or error which they may discover upon examination of the Contract Documents, the site, and local conditions.
- 2.2 Bidders requiring clarification or interpretation of the Contract Documents shall make a written request to the *Chief Procurement Officer*, at [purchasing@newtonma.gov](mailto:purchasing@newtonma.gov) or via facsimile (617) 796-1227. The City will answer such requests if received by **Friday, November 6, 2020** at 12:00 noon.
- 2.3 Interpretation, correction, or change in the Contract Documents will be made by Addendum which will become part of the Contract Documents. The City will not be held accountable for any oral instruction.
- 2.4 Addenda will be emailed to every individual or firm on record as having taken a set of Contract Documents.
- 2.5 Copies of addenda will be made available for inspection at the location listed in the Invitation for Bids where Contract Documents are on file, in addition to being available online [at www.newtonma.gov/bids](http://www.newtonma.gov/bids).
- 2.6 Bidders or proposers contacting ANY CITY EMPLOYEE regarding an Invitation for Bid (IFB) or a Request for Proposal (RFP), outside of the Purchasing Department, once an IFB or RFP has been released may be disqualified from the bidding process.
- 2.7 Bidders downloading information off the internet web site are solely responsible for obtaining any addenda prior to the bid opening. If the bidder makes themselves known to the Purchasing Department, at [purchasing@newtonma.gov](mailto:purchasing@newtonma.gov) or via facsimile (617) 796-1227, they shall be placed on the bidder's list. Bidders must provide the Purchasing Department with their company's name, street address, city, state, zip, phone, fax, email address and **INVITATION FOR BID #21-24**.

**ARTICLE 3 - MBE PARTICIPATION**

- 3.1 Notice is hereby given that the Mayor's Affirmative Action Plan for the City of Newton in effect at the time of this solicitation is applicable to all construction contracts in excess of \$10,000.00.
- 3.2 Notice is hereby given that the City of Newton Minority/Women Business Enterprise Plan and the Supplemental Equal Employment Opportunity Anti-Discrimination and Affirmative Action Program in effect at the time of this solicitation are applicable to all City contracts for goods and services in excess of \$50,000.00.

3.3 Copies of the Plans and Program referred to in Sections 3.1 and 3.2 are available at [www.newtonma.gov/purchasing](http://www.newtonma.gov/purchasing).

#### ARTICLE 4 - PREPARATION AND SUBMISSION OF BIDS

4.1 Bids shall be submitted on the "Bid Form #21-24," attached

4.2 All entries on the Bid Form shall be made by typewriter or in ink.

4.3 Where so indicated on the Bid Form, sums shall be expressed in both words and figures. Where there is a discrepancy between the bid sum expressed in words and the bid sum expressed in figures, the words shall control.

4.4 Bid Deposits shall be submitted in the amount specified in the Invitation for Bids. They shall be made payable to the City and shall be either in the form of cash, certified check, treasurer's or cashier's check issued by a responsible bank or trust company, or a bid bond issued by a surety licensed to do business in the Commonwealth of Massachusetts; and shall be conditioned upon the faithful performance by the principal of the agreements contained in the bid. Bidders are reminded that the bid deposit covers the City for damages when a bidder withdraws its bid after the bid submission date. **Bid advised that to the extent permitted by law the City will retain all bid deposits for withdrawn bids.**

Bid deposits of the three (3) lowest responsible and eligible Bidders shall be retained until the execution and delivery of the City/Contractor agreement.

4.5 The Bid, including the bid deposit shall be enclosed in a sealed envelope with the following plainly marked on the outside:

\* GENERAL BID FOR:                   **#21-24**  
\* NAME OF PROJECT:                   **INSTALLATION OF CURB EXTENSIONS AT ALLEN AVENUE AT  
PLAINFIELD STREET, ALLEN AVENUE AT PINE RIDGE ROAD &  
BEETHOVEN AVENUE AT PURITAN ROAD**

\* BIDDER'S NAME, BUSINESS ADDRESS, AND PHONE NUMBER

4.6 Date and time for receipt of bids is set forth in the IFB.

4.7 Timely delivery of a bid at the location designated shall be the full responsibility of the Bidder. In the event that Newton City Hall is closed on the date or at the time that bids are due, the date and time for receipt of bids shall be on the next business day following that the Newton City Hall and the Purchasing Department are open.

4.8 Massachusetts law requires all employees who work on Massachusetts public works construction sites must have no less than 10 hours of OSHA-approved safety and health training. See M.G.L. c.30, §39M( c), M.G.L. c.30, §39S(a)(1), M.G.L. c.149, §44E(2) & M.G.L. c.149, §44F(2).

1. This requirement will apply to any general bid or sub bid submitted.
2. This law directs the Massachusetts Attorney General to restrain the award of construction contracts to any contractor who is in violation to this requirement and to restrain the performance of these contracts by non-complying contractors.
3. The contractor and all subcontractors on this project must certify on the Bid Form compliance with the applicable requirement. Non-compliance with this law will disqualify the bidder.

4.9 PRICE ADJUSTMENT CLAUSES CHAPTER 90 FUNDS

It is the intention of the City to allow price adjustments in the award of this Contract. These price adjustments shall be for **Fuel, Asphalt and Portland Cement** when such commodities have been determined to be integral components of the work.

For Fuel a special provision shall provide for a price adjustment formula. This adjustment shall be based on the difference between the **Base Price** and the **Period Price** which shall be evaluated on a **monthly** basis, but price adjustments shall only be made if the monthly cost change exceeds **+/- 5 per cent**. Subsequently each respective price adjustment shall be made as specified under each applicable and separate payment item.

IMPORTANT NOTE: Depending on the prevailing market trends at the time of payment these price adjustments may provide for additional compensation to the Contractor, or they may otherwise result in a repayment to the City. The increase or a decrease in the value of the commodity, during the applicable payment period in which the goods and/or services were rendered, shall be the determinant factor.

The City will refer to MassDOT price adjustment tables as included in this bid package to establish the base price and will be used for the actual period price.

**Price Adjustment Clauses – to apply as follows:**

- **Diesel and Gasoline** – Fuel Cost Differentials are available for Asphalt (*See* Item 0.303DFC-A on p. 79.) and Excavation and Back Fill (*See* Item 0.303DFC-EXB on p. 80.). The Base Price, and the Period Price of fuel, shall be derived from the MassDOT average cost of Diesel Fuel and Gasoline Fuel combined for each applicable payment period. Fuel adjustments shall apply to all work in the contract. The Contractor, at its own election, may either choose to bid fuel costs separately, or it may otherwise elect to incorporate fuel costs into its pricing for construction services. In any event the Contractor's final bid prices shall include the fuel costs for all goods and services rendered under this contract.
- **Asphalt** – A differential is available for Liquid Asphalt and SUPERPAVE/Hot Mix Asphalt. (*See* Item 0.303DLA-A on p. 80.)
- **Portland Cement Concrete** – A differential is available for Portland Cement Concrete Items. (*See* Item 0.303DPC-C on p. 81.)

No price adjustment will be allowed beyond the completion date of the contract unless there is an approved extension of time by the City.

**ARTICLE 5 - ALTERNATES**

- 5.1 Each Bidder shall acknowledge Alternates (if any) in Section C on the Bid Form.
- 5.2 In the event an Alternate does not involve a change in the amount of the base bid, the Bidder shall so indicate by writing "No Change", or "N/C" or "0" in the space provided for that Alternate.
- 5.3 Bidders shall enter on the Bid Form a single amount for each Alternate which shall consist of the amount for work performed by the Contractor.
- 5.4 The low Bidder will be determined on the basis of the sum of the base bid and the accepted alternates.

**ARTICLE 6 - WITHDRAWAL OF BIDS**

- 6.1 Any bid may be withdrawn prior to the time designated for receipt of bids on written or electronic request. Electronic withdrawal of bids must be confirmed over the Bidder's signature by written notice postmarked on or before the date and time set for receipt of bids.
- 6.2 Withdrawn bids may be resubmitted up to the time designated for the receipt of bids.
- 6.3 No bids shall be withdrawn within thirty days, Saturdays, Sundays and legal holidays excluded, after the opening of the bids.

**ARTICLE 7 - CONTRACT AWARD**

- 7.1 The City is soliciting prices for the items set forth in the Item Sheets at p. 79-91. It is the City's intent to award one contract to the responsive and eligible bidder offering the lowest Total Bid Price. A contract will be awarded within sixty (60) days, Saturdays, Sundays, and legal holidays excluded, after the opening of bids.
- 7.2 The City of Newton reserves the right to waive minor informalities in or to reject any or all Bids if it be in the public interest to do so.

- 7.3 The City reserves the right to reject any bidder who has failed to pay any local taxes, fees, assessments, betterments, or any other municipal charge, unless the bidder has a pending abatement application or has entered into a payment agreement with the collector-treasurer.
- 7.4 As used herein, the term "lowest responsible and eligible Bidder" shall mean the Bidder (1) whose bid is the lowest of those bidders possessing the skill, ability and integrity necessary for the faithful performance of the work; (2) who has met all the requirements of the invitation for bids; (3) who shall certify that he is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed in the work; (4) who, where the provisions of section eight B of chapter twenty-nine apply, shall have been determined to be qualified thereunder.
- 7.5 Subsequent to the award and within five (5) days, Saturday, Sundays and legal holidays excluded, after the prescribed forms are presented for signature, the successful Bidder shall execute and deliver to the City a Contract in the form included in the Contract Documents in such number of counterparts as the City may require.
- 7.6 In the event that the City receives low bids in identical amount from two or more responsive and responsible Bidders, the City shall select the successful Bidder by a blind selection process chosen by the City such as flipping a coin or drawing names from a hat. The low Bidders which are under consideration will be invited to attend and observe the selection process.

#### ARTICLE 8 - TAXES

- 8.1 The Bidder shall not include in this bid any tax imposed upon the sale or rental of tangible personal property in this Commonwealth, such as any and all building materials, supplies, services and equipment required to complete the work.
- 8.2 The City is exempt from payment of the Massachusetts Sales Tax, and the Bidder shall not include any sales tax on its bid. The City's exemption Number is E-046-001-404.

#### ARTICLE 9 – PROPRIETARY SPECIFICATIONS

- 9.1 The City has used a proprietary specification to describe the supply listed in the specifications. Such specifications are permitted under M.G.L. c. 30, §39M(b), provided that the City state in writing that use of the proprietary specification is in its best interest and that it will accept an "equal" of the item specified. An item is considered equal if (i) it is at least equal in quality, durability, appearance, strength, and design; (ii) will perform the intended function at least equally; and (iii) conforms substantially, even with deviations, to the detailed requirements contained in the specifications. Bidders wishing to provide an equal item should do so with their bids. The City shall have the sole right to determine whether or not said item is equal.
- 9.2 The required determination and justification have been duly prepared, and a copy may be requested in accordance with the Massachusetts Public Records Law, M.G.L. c. 66, §10.

#### ARTICLE 10 – ENVIRONMENTALLY PREFERABLE PRODUCTS

- 10.1 The City encourages environmentally preferable products, i.e., products or services that have less negative or more positive effects on human health and the environment when compared with competing products or services that serve the same purpose. The city encourages bidders to describe, in the space provided on the Bid Form, the environmental attributes of its goods or services throughout the entire life cycle, including manufacture, use and disposition. This information may include multiple environmental considerations such as natural resource use, recycled content, energy and water efficiency, greenhouse gas emissions, impact on climate change, packaging, hazardous material use, and health and safety impacts on workers, consumers and the community. If you do not currently assess such attributes, please indicate that. However you respond, the City will not take your information into account in evaluating bid proposals.
- 10.2 Bidders are encouraged also to provide information related to steps they take internally to (a) identify any positive or negative environmental attributes of products or services they offer, as specified above, and (b) ensure that those attributes are being addressed as part of operations.

#### END OF SECTION



**CITY OF NEWTON**

**DEPARTMENT OF PURCHASING**

**BID FORM #21-24**

- A. The undersigned proposes to supply and deliver the materials specified below in full accordance with the Contract Documents and Project Manual supplied by the City of Newton entitled:

**INSTALLATION OF CURB EXTENSIONS AT ALLEN AVENUE AT PLAINFIELD STREET,  
ALLEN AVENUE AT PINE RIDGE ROAD & BEETHOVEN AVENUE AT PURITAN ROAD**

for the contract price specified below, subject to additions and deduction according to the terms of the specifications.

- B. This bid includes addenda number(s) \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.
- C. The Contractor shall insert prices for each item in ink, in both words and figures.

\_\_\_\_\_ Dollars and \$ \_\_\_\_\_  
(Contract price shall equal the Total Bid Price at p. 91 of the Item Sheets at p. 79-91.)

COMPANY NAME: \_\_\_\_\_

- D. The undersigned has completed and submits herewith the following documents:
- Bidder's Qualifications and References Form, 2 pages
  - Signed Bid Form, 2 pages
  - Item Sheets, 12 pages
  - Certificate of Non-Collusion, 1 page
  - Certificate of Foreign Corporation, 1 page
  - Certificate of Tax Compliance, 1 page
  - Debarment Letter, 1 page
  - IRS Form W-9, 1 page
  - A five percent (5%) bid deposit
- E. Prompt Payment Discounts. Bidders are encouraged to offer discounts in exchange for an expedited payment. Payments may be issued earlier than the general goal of within 30 days of receipt of the invoice only when in exchange for discounted prices. Discounts will not be considered in determining the lowest responsible bidder.

Prompt Payment Discount \_\_\_\_\_ % \_\_\_\_\_ Days  
Prompt Payment Discount \_\_\_\_\_ % \_\_\_\_\_ Days  
Prompt Payment Discount \_\_\_\_\_ % \_\_\_\_\_ Days

- F. The undersigned agrees that, if selected as general contractor, s/he will within five days, Saturdays, Sundays and legal holidays excluded, after presentation thereof by the City of Newton, execute a contract in accordance with the terms of this bid **and furnish a labor and materials payment bond** of a surety company qualified to do business under the laws of the commonwealth and satisfactory to the City of Newton in the **sum not less than 50% of the contract price**, the premiums for which are to be paid by the contractor and are included in the contract price.



The undersigned hereby certifies that s/he is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed on the work and that s/he will comply fully with all laws and regulations applicable to awards made subject to section forty-four A of M.G.L. c.30, §39M.

The undersigned certifies that he is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed in the work; (2) that all employees to be employed at the worksite will have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration (“OSHA”) that is at least 10 hours in duration at the time the employee begins work and who shall furnish documentation of successful completion of said course with the first certified payroll report for each employee; and (3) that all employees to be employed in the work subject to this bid have successfully completed a course in construction safety and health approved by the United States OSHA that is at least 10 hours in duration. The undersigned understands that any employee found on a worksite subject to this section without documentation of successful completion of a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration shall be subject to immediate removal.

The undersigned further certifies under the penalties of perjury that this bid is in all respects bona fide, fair and made without collusion or fraud with any other person. As used in this subsection the word "person" shall mean any natural person, joint venture, partnership, corporation or other business or legal entity. The undersigned further certifies under penalty of perjury that the said undersigned is not presently debarred from doing public construction work in the Commonwealth under the provisions of section twenty-nine F of chapter twenty-nine, or any other applicable debarment provisions of any other chapter of the General Laws or any rule or regulation promulgated thereunder.

The undersigned further certifies under the penalties of perjury that they have familiarized themselves with the changes to the Prevailing Wage Rates, Price Adjustment Clauses, in accordance to Chapter 303 Acts of 2008.

**G.** Environmentally preferable products information (which is requested but which will not be considered in awarding a contract):

Description of environmental attributes of Bidder’s goods or services:

Steps taken to (a) identify any positive or negative environmental attributes of products or services and (b) ensure that those attributes are being addressed as part of operations:

Date \_\_\_\_\_

\_\_\_\_\_ (Name of General Bidder)

BY: \_\_\_\_\_

\_\_\_\_\_ (Printed Name and Title of Signatory)

\_\_\_\_\_ (Business Address)

\_\_\_\_\_ (City, State Zip)

\_\_\_\_\_ / \_\_\_\_\_ (Telephone) (FAX)

\_\_\_\_\_ (E-mail address)

**NOTE:** If the bidder is a corporation, indicate state of incorporation under signature, and affix corporate seal; if a partnership, give full names and residential addresses of all partners; if an individual, give residential address if different from business address; and, if operating as a d/b/a give full legal identity. Attach additional pages as necessary.

**CITY OF NEWTON**

**BIDDER'S QUALIFICATIONS AND REFERENCES FORM**

All questions must be answered, and the data given must be clear and comprehensive. Please type or print legibly. If necessary, add additional sheet for starred items. This information will be utilized by the City of Newton for purposes of determining bidder responsiveness and responsibility with regard to the requirements and specifications of the Contract.

- 1. FIRM NAME: \_\_\_\_\_
- 2. WHEN ORGANIZED: \_\_\_\_\_
- 3. INCORPORATED? \_\_\_\_\_ YES \_\_\_\_\_ NO DATE AND STATE OF INCORPORATION: \_\_\_\_\_
- 4. IS YOUR BUSINESS A **MBE**? \_\_\_\_\_ YES \_\_\_\_\_ NO **WBE**? \_\_\_\_\_ YES \_\_\_\_\_ NO or **MWBE**? \_\_\_\_\_ YES \_\_\_\_\_ NO
- \* 5. LIST ALL CONTRACTS CURRENTLY ON HAND, SHOWING CONTRACT AMOUNT AND ANTICIPATED DATE OF COMPLETION:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- \* 6. HAVE YOU EVER FAILED TO COMPLETE A CONTRACT AWARDED TO YOU?  
\_\_\_\_\_ YES \_\_\_\_\_ NO  
IF YES, WHERE AND WHY?

\_\_\_\_\_  
\_\_\_\_\_

- \* 7. HAVE YOU EVER DEFAULTED ON A CONTRACT? \_\_\_\_\_ YES \_\_\_\_\_ NO  
IF YES, PROVIDE DETAILS.

\_\_\_\_\_  
\_\_\_\_\_

- \* 8. LIST YOUR VEHICLES/EQUIPMENT AVAILABLE FOR THIS CONTRACT:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- \* 9. IN THE SPACES FOLLOWING, PROVIDE INFORMATION REGARDING CONTRACTS COMPLETED BY YOUR FIRM SIMILAR IN NATURE TO THE PROJECT BEING BID. A MINIMUM OF FOUR (4) CONTRACTS SHALL BE LISTED. PUBLICLY BID CONTRACTS ARE PREFERRED, BUT NOT MANDATORY.

PROJECT NAME: \_\_\_\_\_  
OWNER: \_\_\_\_\_  
CITY/STATE: \_\_\_\_\_

DOLLAR AMOUNT: \$ \_\_\_\_\_ DATE COMPLETED: \_\_\_\_\_  
PUBLICLY BID? \_\_\_\_\_ YES \_\_\_\_\_ NO  
TYPE OF WORK?: \_\_\_\_\_  
CONTACT PERSON: \_\_\_\_\_ TELEPHONE #: \_\_\_\_\_  
CONTACT PERSON'S RELATION TO PROJECT?: \_\_\_\_\_  
(i.e., contract manager, purchasing agent, etc.)

PROJECT NAME: \_\_\_\_\_  
OWNER: \_\_\_\_\_

CITY/STATE: \_\_\_\_\_  
DOLLAR AMOUNT: \$ \_\_\_\_\_ DATE COMPLETED: \_\_\_\_\_  
PUBLICLY BID? \_\_\_\_\_ YES \_\_\_\_\_ NO  
TYPE OF WORK?: \_\_\_\_\_  
CONTACT PERSON: \_\_\_\_\_ TELEPHONE #: (\_\_\_\_) \_\_\_\_\_  
CONTACT PERSON'S RELATION TO PROJECT?: \_\_\_\_\_  
(i.e., contract manager, purchasing agent, etc.)

PROJECT NAME: \_\_\_\_\_  
OWNER: \_\_\_\_\_  
CITY/STATE: \_\_\_\_\_  
DOLLAR AMOUNT: \$ \_\_\_\_\_ DATE COMPLETED: \_\_\_\_\_  
PUBLICLY BID? \_\_\_\_\_ YES \_\_\_\_\_ NO  
TYPE OF WORK?: \_\_\_\_\_  
CONTACT PERSON: \_\_\_\_\_ TELEPHONE #: (\_\_\_\_) \_\_\_\_\_  
CONTACT PERSON'S RELATION TO PROJECT?: \_\_\_\_\_  
(i.e., contract manager, purchasing agent, etc.)

PROJECT NAME: \_\_\_\_\_  
OWNER: \_\_\_\_\_  
CITY/STATE: \_\_\_\_\_  
DOLLAR AMOUNT: \$ \_\_\_\_\_ DATE COMPLETED: \_\_\_\_\_  
PUBLICLY BID? \_\_\_\_\_ YES \_\_\_\_\_ NO  
TYPE OF WORK?: \_\_\_\_\_  
CONTACT PERSON: \_\_\_\_\_ TELEPHONE #: (\_\_\_\_) \_\_\_\_\_  
CONTACT PERSON'S RELATION TO PROJECT?: \_\_\_\_\_  
(i.e., contract manager, purchasing agent, etc.)

10. The undersigned certifies that the information contained herein is complete and accurate and hereby authorizes and requests any person, firm, or corporation to furnish any information requested by the City of Newton in verification of the recitals comprising this statement of Bidder's qualifications and experience.

DATE: \_\_\_\_\_ BIDDER: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

PRINTED NAME: \_\_\_\_\_ TITLE: \_\_\_\_\_

**END OF SECTION**

## CERTIFICATE OF NON-COLLUSION

The undersigned certifies under penalties of perjury that this bid or proposal has been made and submitted in good faith and submitted in good faith and without collusion or fraud with any other person. As used in this certification, the word "person" shall mean any natural person, business, partnership, corporation, union, committee club, or other organization, entity, or group or individuals.

\_\_\_\_\_  
(Signature of individual)

\_\_\_\_\_  
Name of Business

## CERTIFICATE OF FOREIGN CORPORATION

The undersigned hereby certifies that it has been duly established, organized, or chartered as a corporation under the laws of:

---

**(Jurisdiction)**

**The undersigned further certifies that it has complied with the requirements of M.G.L. c. 30, §39L (if applicable) and with the requirements of M.G.L. c. 156D, §15.03 relative to the registration and operation of foreign corporations within the Commonwealth of Massachusetts.**

---

**Name of person signing proposal**

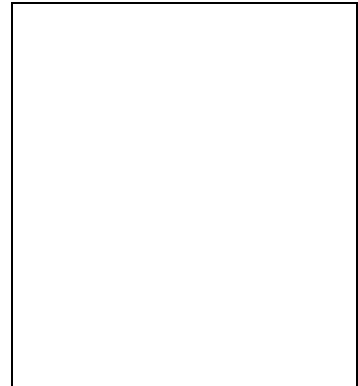
---

**Signature of person signing proposal**

---

**Name of Business (Please Print or Type)**

*Affix Corporate Seal here*



## CERTIFICATION OF TAX COMPLIANCE

Pursuant to M.G.L. c.62C, §49A and requirements of the City, the undersigned acting on behalf of the Contractor certifies under the penalties of perjury that the Contractor is in compliance with all laws of the Commonwealth relating to taxes including payment of all local taxes, fees, assessments, betterments and any other local or municipal charges (unless the Contractor has a pending abatement application or has entered into a payment agreement with the entity to which such charges were owed), reporting of employees and contractors, and withholding and remitting child support.\*

\_\_\_\_\_  
\*\*Signature of Individual (Mandatory)

\_\_\_\_\_  
\*\*\* Contractor's Social Security Number  
(Voluntary) or Federal Identification Number

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

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

**OR**

\_\_\_\_\_  
Company Name  
(Corporation, Partnership, LLC, etc.)

By: \_\_\_\_\_  
\*\*Corporate Officer (Mandatory)

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

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

\* The provision in this Certification relating to child support applies only when the Contractor is an individual.

\*\* Approval of a contract or other agreement will not be granted until the City receives a signed copy of this Certification.

\*\*\* Your social security number may be furnished to the Massachusetts Department of Revenue to determine whether you have met tax filing or tax payment obligations. Providers who fail to correct their non-filing or delinquency will not have a contract or other agreement issued, renewed, or extended.

City of Newton



Mayor  
Ruthanne Fuller

**Purchasing Department**

Nicholas Read *Chief Procurement Officer*  
1000 Commonwealth Avenue  
Newton Centre, MA 02459-1449  
purchasing@newtonma.gov

Telephone  
(617) 796-1220  
Fax:  
(617) 796-1227  
TDD/TTY  
(617) 796-1089

Date

Vendor

Re: Debarment Letter for Invitation For Bid #21-24

As a potential vendor on the above contract, the City requires that you provide a debarment/suspension certification indicating that you are in compliance with the below Federal Executive Order. Certification can be done by completing and signing this form.

**Debarment:**

**Federal Executive Order (E.O.) 12549 “Debarment and Suspension“ requires that all contractors receiving individual awards, using federal funds, and all sub-recipients certify that the organization and its principals are not debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded by any Federal department or agency from doing business with the Federal Government.**

I hereby certify under pains and penalties of perjury that neither I nor any principal(s) of the Company identified below is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any federal department or agency.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

PHONE \_\_\_\_\_ FAX \_\_\_\_\_

EMAIL \_\_\_\_\_

\_\_\_\_\_ Signature

\_\_\_\_\_ Date

If you have questions, please contact Nicholas Read, Chief Procurement Officer at (617) 796-1220.



## Request for Taxpayer Identification Number and Certification

**Give form to the  
requester. Do not  
send to the IRS.**

Print or type  
See Specific instructions on page 2.

Name (as shown on your income tax return)	
Business name, if different from above	
Check appropriate box: <input type="checkbox"/> Individual/Sole proprietor <input type="checkbox"/> Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Limited liability company. Enter the tax classification (D=disregarded entity, C=corporation, P=partnership) ▶ ..... <input type="checkbox"/> Other (see instructions) ▶	
Address (number, street, and apt. or suite no.)	Requester's name and address (optional)
City, state, and ZIP code	
List account number(s) here (optional)	

**X** Exempt payee

### Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on Line 1 to avoid backup withholding. For individuals, this is your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN* on page 3.

**Note.** If the account is in more than one name, see the chart on page 4 for guidelines on whose number to enter.

Social security number
or
Employer identification number

### Part II Certification

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and
- I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and
- I am a U.S. citizen or other U.S. person (defined below).

**Certification instructions.** You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the Certification, but you must provide your correct TIN. See the instructions on page 4.

<b>Sign Here</b>	Signature of U.S. person ▶	Date ▶	Name
------------------	----------------------------	--------	------

### General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

#### Purpose of Form

A person who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) to report, for example, income paid to you, real estate transactions, mortgage interest you paid, acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA.

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN to the person requesting it (the requester) and, when applicable, to:

- Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
- Certify that you are not subject to backup withholding, or
- Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income.

**Note.** If a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

**Definition of a U.S. person.** For federal tax purposes, you are considered a U.S. person if you are:

- An individual who is a U.S. citizen or U.S. resident alien,
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States,
- An estate (other than a foreign estate), or
- A domestic trust (as defined in Regulations section 301.7701-7).

**Special rules for partnerships.** Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax on any foreign partners' share of income from such business. Further, in certain cases where a Form W-9 has not been received, a partnership is required to presume that a partner is a foreign person, and pay the withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid withholding on your share of partnership income.

The person who gives Form W-9 to the partnership for purposes of establishing its U.S. status and avoiding withholding on its allocable share of net income from the partnership conducting a trade or business in the United States is in the following cases:

- The U.S. owner of a disregarded entity and not the entity,

## **CONTRACT FORMS**

The awarded bidder will be required to complete and submit documents substantially similar in form to the following.

These forms may need to be modified on account of changed circumstances and are provided for informational purposes only.

# CITY - CONTRACTOR AGREEMENT

CONTRACT NO. C - \_\_\_\_\_

THIS AGREEMENT made this \_\_\_ day of \_\_\_\_\_ in the year Two Thousand Twenty by and between the CITY OF NEWTON, a municipal corporation organized and existing under the laws of the Commonwealth of Massachusetts, hereinafter referred to as the CITY, acting through its Chief Procurement Officer, but without personal liability to him, and hereinafter referred to as the CONTRACTOR.

The parties hereto for the considerations hereinafter set forth agree as follows:

**ARTICLE 1. STATEMENT OF WORK.** The Contractor shall furnish all labor, materials, and equipment and perform all work required in strict accordance with the Contract Documents for the following project:

**INSTALLATION OF CURB EXTENSIONS AT ALLEN AVENUE AT PLAINFIELD STREET,  
ALLEN AVENUE AT PINE RIDGE ROAD & BEETHOVEN AVENUE AT PURITAN ROAD**

**ARTICLE 2. TIME OF COMPLETION.** The Contractor shall commence work under this Contract on the date specified in the written notice of the City to proceed and shall fully complete all work hereunder within the time specified in the Summary of Work and Specific Work Requirements of the Project Manual. Time is of the essence with regard to this contract. Failure to complete within the time specified shall be subject to the assessment of liquidated damages in accordance with the provisions contained in the Project Manual. **The start date is the date on which the Notice to Proceed is issued, which is anticipated to be April 1, 2021, or sooner if weather permits. Time for completion is prior to June 30, 2021.**

**ARTICLE 3. THE CONTRACT PRICE.** The City shall pay the Contractor for the full and satisfactory performance of the Contract, in current funds a sum not to exceed:

\$

**ARTICLE 4. CONTRACT DOCUMENTS.** The Contract Documents consist of the following documents which are either attached to this Agreement or are incorporated herein by reference:

- a. This CITY-CONTRACTOR Agreement;
- b. The City's Invitation For Bid #21-24 issued by the Purchasing Department;
- c. The Project Manual for: Installation Of Curb Extensions At Allen Avenue At Plainfield Street, Allen Avenue At Pine Ridge Road & Beethoven Avenue At Puritan Road, including the Instructions to Bidders; General Conditions; Special Conditions; MWBE/AA Requirements, Wage Rate Requirements and Wage Rate Schedule(s) including any updated prevailing wage rate schedules if applicable; The Supplementary Special Conditions; General Requirements and Project Specifications; and Drawings, if included or referenced therein;
- d. Addenda Number(s) \_\_\_\_\_;
- e. The Bid Response of the CONTRACTOR submitted for this Project and accompanying documents and certifications;
- f. Certificate(s) of Insurance and surety bond(s) submitted by the CONTRACTOR in connection with this Project;
- g. Duly authorized and executed Amendments, Change Orders or Shipping Orders issued by the CITY after execution of this CITY-CONTRACTOR Agreement.

This CITY-CONTRACTOR Agreement, together with the other documents enumerated in this Article, constitute the entire Agreement between the CITY and the CONTRACTOR.

**ARTICLE 5. ALTERNATES.** The following Alternates have been accepted and their costs are included in the Contract Price stated in Article 3 of this Agreement:

Alternates: \_\_\_\_\_

**ARTICLE 6. APPLICABLE STATUTES.** All applicable federal, state and local laws and regulations are incorporated herein by reference and the Contractor agrees to comply with same.

**ARTICLE 7. INSURANCE REQUIREMENTS.** The Contractor shall provide insurance coverage as listed below. This insurance shall be provided at the Contractor's expense and shall be in full force and effect during the full term of this Contract.

WORKER'S COMPENSATION

Worker's Compensation: Per M.G.L. c. 149, §34 and c. 152 as amended.

COMMERCIAL GENERAL LIABILITY

Personal Injury	\$500,000 each occurrence
	\$1,000,000 aggregate
Property Damage	\$500,000 each occurrence
	\$1,000,000 aggregate

VEHICLE LIABILITY

Personal Injury	\$500,000 each person
	\$1,000,000 aggregate
Property Damage	\$300,000 each occurrence
	\$500,000 aggregate

The City shall be named as additional insureds on the Contractor's Liability Policies.

The Contractor shall not commence the work until proof of compliance with this has been furnished to the City by submitting one copy of a properly endorsed insurance certificate issued by a company authorized to write insurance in the Commonwealth. This certificate shall indicate that the contractual liability coverage is in force.

The Contractor shall file the original and one certified copy of all policies with the City within ten (10) days after contract award. If the City is damaged by the Contractor's failure to maintain such insurance and to so notify the City, then the Contractor shall be responsible for all reasonable costs attributable thereto.

Cancellation of any insurance required by this contract, whether by the insurer or the insured, shall not be valid unless written notice thereof is given by the party proposing cancellation to the other party and City at least thirty days prior to the effective date thereof, which shall be expressed in said notice.

IN WITNESS WHEREOF, the parties have caused this instrument to be executed under seal the day and year first above written.

**CONTRACTOR**

**CITY OF NEWTON**

By \_\_\_\_\_

By \_\_\_\_\_

Print Name \_\_\_\_\_

*Chief Procurement Officer*

Title \_\_\_\_\_

Date \_\_\_\_\_

Date \_\_\_\_\_

By \_\_\_\_\_

*Commissioner of Public Works*

Date \_\_\_\_\_

*Affix Corporate Seal Here*

Certified that City funds are available in the following accounts:

0140180-554900 \_\_\_\_\_

\_\_\_\_\_

I further certify that the Mayor, or her designee, is authorized to execute contracts and approve change orders.

Approved as to Legal Form and Character

By \_\_\_\_\_

*Associate City Solicitor*

Date \_\_\_\_\_

By \_\_\_\_\_

*Comptroller of Accounts*

**CONTRACT & BONDS ARE APPROVED**

By \_\_\_\_\_

*Mayor or her designee*

Date \_\_\_\_\_

Date \_\_\_\_\_

**CERTIFICATE OF AUTHORITY – CORPORATE**

- 1 I hereby certify that I am the Clerk/Secretary of \_\_\_\_\_  
(insert full name of Corporation)
- 2 corporation, and that \_\_\_\_\_  
(insert the name of officer who signed the **contract and bonds.**)
- 3 is the duly elected \_\_\_\_\_  
(insert the title of the officer in line 2)
- 4 of said corporation, and that on \_\_\_\_\_  
(insert a date that is **ON OR BEFORE** the date the officer signed the **contract and bonds.**)

at a duly authorized meeting of the Board of Directors of said corporation, at which all the directors were present or waived notice, it was voted that

5. \_\_\_\_\_ the \_\_\_\_\_  
(insert **name** from line 2) (insert **title** from line 3)

of this corporation be and hereby is authorized to execute contracts and bonds in the name and on behalf of said corporation, and affix its Corporate Seal thereto, and such execution of any contract of obligation in this corporation's name and on its behalf, with or without the Corporate Seal, shall be valid and binding upon this corporation; and that the above vote has not been amended or rescinded and remains in full force and effect as of the date set forth below.

6. ATTEST: \_\_\_\_\_ *AFFIX CORPORATE SEAL HERE*  
(Signature of **Clerk or Secretary**)\*
7. Name: \_\_\_\_\_  
(Please print or type name in line 6)\*
8. Date: \_\_\_\_\_  
(insert a date that is **ON OR AFTER** the date the officer signed the **contract and bonds.**)

\* The name and signature inserted in lines 6 & 7 **must** be that of the **Clerk or Secretary** of the corporation.

**CITY OF NEWTON, MASSACHUSETTS**

**PAYMENT BOND**

Know All Men By These Presents:

That we, \_\_\_\_\_, as PRINCIPAL, and \_\_\_\_\_, as SURETY, are held and firmly bound unto the City of Newton as Obligee, in the sum of \_\_\_\_\_ dollars (\$ \_\_\_\_\_) to be paid to the Obligee, for which payments well and truly to be made, we bind ourselves, our respective heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

Whereas, the said PRINCIPAL has made a contract with the Obligee, bearing the date of \_\_\_\_\_, 2020 for the construction of \_\_\_\_\_ in Newton, Massachusetts.  
(Project Title)

Now, the conditions of this obligation are such that if the PRINCIPAL and all Sub-contractors under said contract shall pay for all labor performed or furnished and for all materials used or employed in said contract and in any and all duly authorized modifications, alterations, extensions of time, changes or additions to said contract that may hereafter be made, notice to the SURETY of such modifications, alterations, extensions of time, changes or additions being hereby waived, the foregoing to include any other purposes or items set out in, and to be subject to, provisions of M.G.L. c. 30, sec. 39A, and M.G.L. c. 149 sec. 29, as amended, then this obligation shall become null and void; otherwise it shall remain in full force, virtue and effect.

In Witness Whereof, the PRINCIPAL and SURETY have hereto set their hands and seals this \_\_\_\_ day of \_\_\_\_\_ 2020.

PRINCIPAL

SURETY

\_\_\_\_\_

\_\_\_\_\_

BY \_\_\_\_\_

BY \_\_\_\_\_

(SEAL)

(ATTORNEY-IN-FACT) (SEAL)

\_\_\_\_\_

(Title)

ATTEST: \_\_\_\_\_

ATTEST: \_\_\_\_\_



**CITY OF NEWTON, MASSACHUSETTS  
PURCHASING DEPARTMENT  
GENERAL TERMS AND CONDITIONS**

1. The right is reserved to reject any and all bids, to waive informalities, and to make award as may be determined to be in the best interest of the City of Newton.
2. Prices quoted must include delivery to the City, as specified on the Work Order.
3. No charges will be allowed for packing, crating, freight, Express or cartage unless specifically stated and included in the bid.
4. The award to the successful bidder may be canceled if successful bidder shall fail to prosecute the work with promptness and diligence.
5. Time in connection with discount offered will be computed from the date of delivery to the City, as specified on Work order, or from date correct invoice is received by the City, if the latter date is later than the date of delivery.
6. The successful bidder shall replace, repair or make good, without cost to the City, any defects or faults arising within one (1) year after date of acceptance of articles furnished hereunder (acceptance not to be unreasonably delayed) resulting from imperfect or defective work done or materials furnished by the Seller.
7. The Seller shall indemnify and save harmless the City and all persons acting for on behalf of it from all suits and claims against them, or any of them, arising from or occasioned by the use of any material, equipment or apparatus, or any part thereof, which infringes or is alleged to infringe on any patent rights. In case such material, equipment or apparatus, or any part thereof, in any such suit is held to constitute infringement, the Seller, within a reasonable time, will at its expense, and as the City may elect, replace such material, equipment or apparatus with non-infringing material, equipment or apparatus, or remove the material, equipment or apparatus, and refund the sums paid therefor.
8. The successful bidder shall comply with all applicable Federal State and Local laws and regulations.
9. Purchases made by the City are exempt from Federal excise taxes and bid prices must exclude any such taxes. Tax exemption certificates will be furnished upon request.
10. If so stated in the Invitation for Bid the successful bidder will be required to furnish a performance and/or a labor and material payment bond, in an amount, in a form and with a surety satisfactory to the City. The bidder shall be responsible for the cost of the bond(s).
11. If the Invitation for Bids requires bid surety, this surety shall be in the form of a cash, bid bond, cashier's check, treasurer's check, or certified check on a responsible bank, payable to the City of Newton, and must be filed with the original bid in the Office of the Purchasing Agent. Failure to do so will lead to rejection of bid. The bid surety will be returned to the successful bidder within seven (7) days execution of awarded, and approval by the City of performance and/or payment bond(s). In case of default, the bid surety shall be forfeited to the City.
12. Verbal orders are not binding on the City and deliveries made or work done without formal Work Order or Contract are at the risk of the Seller or Contractor and may result in an unenforceable claim.
13. The Seller shall agree to indemnify, defend and hold the City harmless from any and all claims arising out of the performance of this contract.
14. "Equality - An item equal to that named or described in the specifications of the contract may be furnished by the Vendor and the naming of any commercial name, trademark or other identification shall not be construed to exclude any item or manufacturer not mentioned by name or as limiting competition but shall establish a standard of equality only. An item shall be considered equal to the item so named or described if (1) it is at least equal in quality, durability, appearance, strength and design; (2) it will perform at least equally the function imposed by the general design for the work being contracted for or the material being purchased; and (3) it conforms substantially, even with deviations, to the detailed requirements for the item in the specifications. The name and identification of all materials other than the one specifically named shall be submitted to the City in writing for approval, prior to purchase, use or fabrication of such items. Subject to the provisions of M.G.L., Ch. 30, Sec. 39J, approval shall be at the sole discretion of the City, shall be in writing to be effective, and the decision of the City shall be final. The City may require tests of all

materials so submitted to establish quality standards at the Vendor's expense. All directions, specifications and recommendations by manufacturers for installation, handling, storing, adjustment and operation of their equipment shall be complied with; responsibility for proper performance shall continue to rest with the Vendor.

For the use of material other than the one specified, the Vendor shall assume the cost of and responsibility for satisfactorily accomplishing all changes in the work as shown. If no manufacturer is named, the Vendor shall submit the product he intends to use for approval of the City.

Except as otherwise provided for by the provisions of M.G.L., Ch. 30, Sec. 39J, the Vendor shall not have any right of appeal from the decision of the City condemning any materials furnished if the Vendor fails to obtain the approval for substitution under this clause. If any substitution is more costly, the Vendor shall pay for such costs."

15. Notice is hereby given that the City of Newton Minority/Women Business Enterprise Plan dated December 1999 is applicable to all City of Newton contracts for materials and supplies. A copy of this plan may be obtained from the Purchasing Department.

16. Right To Know: Any vendor who receives an order or orders resulting from this invitation agrees to submit a Material Safety Data Sheet (MSDS) for each toxic or hazardous substance or mixture containing such substance, pursuant to M.G.L., Ch. 111F, SS8, 9 and 10 and the regulations contained in 441 CMR SS 21.06 when deliveries are made. The vendor agrees to deliver all containers properly labeled pursuant to M.G.L. Ch. 111F, SS 7 and the regulations contained in 441 CMR SS 21.05. Failure to submit an MSDS and/or label on each container will place the vendor in noncompliance with the work order. Failure to furnish MSDSs and/or labels on each container may result in civil or criminal penalties, including bid debarment and action to prevent the vendor from selling said substances or mixtures containing said substances within the Commonwealth. All vendors furnishing substances or mixtures subject to Chapter 111F of the M.G.L. are cautioned to obtain and read the law and rules and regulations referred to above. Copies can be obtained from the State House Book Store, Secretary of State, State House, Room 117, Boston, MA 02133, (617-727-2834) for \$2.00 plus \$.65 postage.

17. INSURANCE REQUIREMENTS

The Contractor shall provide insurance coverage as listed below. This insurance shall be provided at the Contractor's expense and shall be in full force and effect during the full term of this Contract.

WORKER'S COMPENSATION

Worker's Compensation: Per M.G.L. c. 149, §34 and c. 152 as amended.

COMMERCIAL GENERAL LIABILITY

Personal Injury \$500,000 each occurrence  
\$1,000,000 aggregate  
Property Damage \$500,000 each occurrence  
\$1,000,000 aggregate

VEHICLE LIABILITY

Personal Injury \$500,000 each person  
\$1,000,000 aggregate  
Property Damage \$300,000 each occurrence  
\$500,000 aggregate

The City shall be named as additional insureds on the Contractor's Liability Policies.

The Contractor shall not commence the work until proof of compliance with this has been furnished to the City by submitting one copy of a properly endorsed insurance certificate issued by a company authorized to write insurance in the Commonwealth. This certificate shall indicate that the contractual liability coverage is in force.

The Contractor shall file the original and one certified copy of all policies with the City within ten (10) days after contract award. If the City is damaged by the Contractor's failure to maintain such insurance and to so notify the City, then the Contractor shall be responsible for all reasonable costs attributable thereto.

Cancellation of any insurance required by this contract, whether by the insurer or the insured, shall not be valid unless written notice thereof is given by the party proposing cancellation to the other party and City at least thirty days prior to the effective date thereof, which shall be expressed in said notice.

**FAILURE TO COMPLY WITH THESE TERMS AND CONDITIONS COULD RESULT IN THE CANCELLATION OF YOUR CONTRACT.**

## CITY OF NEWTON

### WAGE RATE REQUIREMENTS

#### 1. GENERAL

- A. This section summarizes the requirements for the payment of wages to laborers and mechanics employed under the Contract.
- B. Other duties and requirements of law which may not be specified in this section apply and are inherently a part of the Contract.

#### 2. WAGE RATES

- A. The rate per hour to be paid to mechanics, apprentices, teamsters, chauffeurs, and laborers employed on the Work shall not be less than the rate of wages in the attached "Minimum Wage Rates" as determined by the Commissioner of Labor and Industries. This schedule shall continue to be the minimum rate of wages for said employees during the life of this Contract.
- B. Keep posted on the site a legible copy of said schedule. Keep on file the wage rates and classifications of labor employed on this Work in order that they may be available for inspection by the Owner, Administrator, or the Architect.
- C. Apprentices employed pursuant to this determination of wage rates must be registered and approved by the State Apprenticeship Council wherever rates for journeymen or apprentices are not listed.
- D. Pay reserve police officers employed on the Work the prevailing rate of wages paid to regular police officers as required by M.G.L. c149, Sec. 34B, as amended. Such police officers shall be covered by Workmen's Compensation Insurance and Employers Liability Insurance by the Contractor.
- E. **The Contractor and all subcontractors shall, on a weekly basis throughout the term of the contract, provide to the City of Newton certified payroll affidavits verifying compliance with M.G.L. c.149, Sec. 27, 27A and 27B.** The Contractor is obligated to provide such records to the City directly on a weekly basis. The City may assess a penalty of \$100 for each day beyond the required submission date that such records are received, which amount shall be deducted from any amounts to the Contractor from the City. In the event of chronic late submissions, the City shall report the same to the Office of the Attorney General.
- F. The Contractor and all subcontractors shall provide a Statement of Compliance within 15 days of the completion of its portion of the work. This statement shall be submitted to the Owner on the form found elsewhere in this section.
- G. The Contractor shall maintain accurate and complete records, including payroll records, during the Contract term and for three years thereafter.

**END OF SECTION**



CHARLES D. BAKER  
Governor

KARYNE POLITO  
Lt. Governor

THE COMMONWEALTH OF MASSACHUSETTS  
EXECUTIVE OFFICE OF LABOR AND WORKFORCE DEVELOPMENT  
DEPARTMENT OF LABOR STANDARDS

Prevailing Wage Rates

As determined by the Director under the provisions of the  
Massachusetts General Laws, Chapter 149, Sections 26 to 27H

ROSALIN ACOSTA  
Secretary  
MICHAEL FLANAGAN  
Director

Awarding Authority: City of Newton  
Contract Number: #21-24 City/Town: NEWTON  
Description of Work: Installation of Curb Extensions; Provide labor, materials, and equipment required for construction of curb extensions at various City of Newton street locations  
Job Location: Various locations

Information about Prevailing Wage Schedules for Awarding Authorities and Contractors

- This wage schedule applies only to the specific project referenced at the top of this page and uniquely identified by the "Wage Request Number" on all pages of this schedule.
- An Awarding Authority must request an updated wage schedule from the Department of Labor Standards ("DLS") if it has not opened bids or selected a contractor within 90 days of the date of issuance of the wage schedule. For CM AT RISK projects (bid pursuant to G.L. c.149A), the earlier of: (a) the execution date of the GMP Amendment, or (b) the bid for the first construction scope of work must be within 90-days of the wage schedule issuance date.
- The wage schedule shall be incorporated in any advertisement or call for bids for the project as required by M.G.L. c. 149, § 27. The wage schedule shall be made a part of the contract awarded for the project. The wage schedule must be posted in a conspicuous place at the work site for the life of the project in accordance with M.G.L. c. 149 § 27. The wages listed on the wage schedule must be paid to employees performing construction work on the project whether they are employed by the prime contractor, a filed sub-bidder, or any sub-contractor.
- All apprentices working on the project are required to be registered with the Massachusetts Department of Labor Standards, Division of Apprentice Standards (DLS/DAS). Apprentice must keep his/her apprentice identification card on his/her person during all work hours on the project. An apprentice registered with DAS may be paid the lower apprentice wage rate at the applicable step as provided on the prevailing wage schedule. **Any apprentice not registered with DLS/DAS regardless of whether or not they are registered with any other federal, state, local, or private agency must be paid the journeyworker's rate for the trade.**
- The wage rates will remain in effect for the duration of the project, except in the case of multi-year public construction projects. For construction projects lasting longer than one year, awarding authorities must request an updated wage schedule. Awarding authorities are required to request these updates no later than two weeks before the anniversary of the date the contract was executed by the awarding authority and the general contractor. For multi-year CM AT RISK projects, awarding authority must request an annual update no later than two weeks before the anniversary date, determined as the earlier of: (a) the execution date of the GMP Amendment, or (b) the execution date of the first amendment to permit procurement of construction services. Contractors are required to obtain the wage schedules from awarding authorities, and to pay no less than these rates to covered workers. The annual update requirement is not applicable to 27F "rental of equipment" contracts.
- Every contractor or subcontractor which performs construction work on the project is required to submit weekly payroll reports and a Statement of Compliance directly to the awarding authority by mail or email and keep them on file for three years. Each weekly payroll report must contain: the employee's name, address, occupational classification, hours worked, and wages paid. Do not submit weekly payroll reports to DLS. A sample of a payroll reporting form may be obtained at <http://www.mass.gov/dols/pw>.
- Contractors with questions about the wage rates or classifications included on the wage schedule have an affirmative obligation to inquire with DLS at (617) 626-6953.
- Employees not receiving the prevailing wage rate set forth on the wage schedule may report the violation to the Fair Labor Division of the office of the Attorney General at (617) 727-3465.
- Failure of a contractor or subcontractor to pay the prevailing wage rates listed on the wage schedule to all employees who perform construction work on the project is a violation of the law and subjects the contractor or subcontractor to civil and criminal penalties.

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
<b>Construction</b>						
(2 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE A</i>	08/01/2020	\$36.25	\$12.91	\$13.72	\$0.00	\$62.88
	12/01/2020	\$36.25	\$12.91	\$14.82	\$0.00	\$63.98
	06/01/2021	\$37.05	\$12.91	\$14.82	\$0.00	\$64.78
	08/01/2021	\$37.05	\$13.41	\$14.82	\$0.00	\$65.28
	12/01/2021	\$37.05	\$13.41	\$16.01	\$0.00	\$66.47
(3 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE A</i>	08/01/2020	\$36.32	\$12.91	\$13.72	\$0.00	\$62.95
	12/01/2020	\$36.32	\$12.91	\$14.82	\$0.00	\$64.05
	06/01/2021	\$37.12	\$12.91	\$14.82	\$0.00	\$64.85
	08/01/2021	\$37.12	\$13.41	\$14.82	\$0.00	\$65.35
	12/01/2021	\$37.12	\$13.41	\$16.01	\$0.00	\$66.54
(4 & 5 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE A</i>	08/01/2020	\$36.44	\$12.91	\$13.72	\$0.00	\$63.07
	12/01/2020	\$36.44	\$12.91	\$14.82	\$0.00	\$64.17
	06/01/2021	\$37.24	\$12.91	\$14.82	\$0.00	\$64.97
	08/01/2021	\$37.24	\$13.41	\$14.82	\$0.00	\$65.47
	12/01/2021	\$37.24	\$13.41	\$16.01	\$0.00	\$66.66
ADS/SUBMERSIBLE PILOT <i>PILE DRIVER LOCAL 56 (ZONE 1)</i>	08/01/2020	\$103.05	\$9.40	\$23.12	\$0.00	\$135.57
For apprentice rates see "Apprentice- PILE DRIVER"						
AIR TRACK OPERATOR <i>LABORERS - ZONE 1</i>	06/01/2020	\$39.90	\$8.60	\$17.09	\$0.00	\$65.59
	12/01/2020	\$40.88	\$8.60	\$17.09	\$0.00	\$66.57
	06/01/2021	\$41.90	\$8.60	\$17.09	\$0.00	\$67.59
	12/01/2021	\$42.91	\$8.60	\$17.09	\$0.00	\$68.60
For apprentice rates see "Apprentice- LABORER"						
ASBESTOS REMOVER - PIPE / MECH. EQUIPT. <i>HEAT &amp; FROST INSULATORS LOCAL 6 (BOSTON)</i>	06/01/2020	\$37.10	\$12.80	\$9.45	\$0.00	\$59.35
	12/01/2020	\$38.10	\$12.80	\$9.45	\$0.00	\$60.35
ASPHALT RAKER <i>LABORERS - ZONE 1</i>	06/01/2020	\$39.40	\$8.60	\$17.09	\$0.00	\$65.09
	12/01/2020	\$40.38	\$8.60	\$17.09	\$0.00	\$66.07
	06/01/2021	\$41.40	\$8.60	\$17.09	\$0.00	\$67.09
	12/01/2021	\$42.41	\$8.60	\$17.09	\$0.00	\$68.10
For apprentice rates see "Apprentice- LABORER"						
ASPHALT/CONCRETE/CRUSHER PLANT-ON SITE <i>OPERATING ENGINEERS LOCAL 4</i>	06/01/2020	\$49.33	\$13.00	\$15.70	\$0.00	\$78.03
	12/01/2020	\$50.48	\$13.00	\$15.70	\$0.00	\$79.18
	06/01/2021	\$51.58	\$13.00	\$15.70	\$0.00	\$80.28
	12/01/2021	\$52.73	\$13.00	\$15.70	\$0.00	\$81.43
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BACKHOE/FRONT-END LOADER <i>OPERATING ENGINEERS LOCAL 4</i>	06/01/2020	\$49.33	\$13.00	\$15.70	\$0.00	\$78.03
	12/01/2020	\$50.48	\$13.00	\$15.70	\$0.00	\$79.18
	06/01/2021	\$51.58	\$13.00	\$15.70	\$0.00	\$80.28
	12/01/2021	\$52.73	\$13.00	\$15.70	\$0.00	\$81.43
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BARCO-TYPE JUMPING TAMPER <i>LABORERS - ZONE 1</i>	06/01/2020	\$39.40	\$8.60	\$17.09	\$0.00	\$65.09
	12/01/2020	\$40.38	\$8.60	\$17.09	\$0.00	\$66.07
	06/01/2021	\$41.40	\$8.60	\$17.09	\$0.00	\$67.09
	12/01/2021	\$42.41	\$8.60	\$17.09	\$0.00	\$68.10
For apprentice rates see "Apprentice- LABORER"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
BLOCK PAVER, RAMMER / CURB SETTER LABORERS - ZONE 1	06/01/2020	\$39.90	\$8.60	\$17.09	\$0.00	\$65.59
	12/01/2020	\$40.88	\$8.60	\$17.09	\$0.00	\$66.57
	06/01/2021	\$41.90	\$8.60	\$17.09	\$0.00	\$67.59
	12/01/2021	\$42.91	\$8.60	\$17.09	\$0.00	\$68.60
For apprentice rates see "Apprentice- LABORER"						
BOILER MAKER BOILERMAKERS LOCAL 29	01/01/2020	\$46.10	\$7.07	\$17.98	\$0.00	\$71.15

Apprentice - BOILERMAKER - Local 29

Effective Date - 01/01/2020

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	65	\$29.97	\$7.07	\$11.69	\$0.00	\$48.73
2	65	\$29.97	\$7.07	\$11.69	\$0.00	\$48.73
3	70	\$32.27	\$7.07	\$12.59	\$0.00	\$51.93
4	75	\$34.58	\$7.07	\$13.49	\$0.00	\$55.14
5	80	\$36.88	\$7.07	\$14.38	\$0.00	\$58.33
6	85	\$39.19	\$7.07	\$15.29	\$0.00	\$61.55
7	90	\$41.49	\$7.07	\$16.18	\$0.00	\$64.74
8	95	\$43.80	\$7.07	\$17.09	\$0.00	\$67.96

Notes:

Apprentice to Journeyworker Ratio:1:4

BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING) BRICKLAYERS LOCAL 3 (NEWTON)	08/01/2020	\$55.75	\$10.75	\$22.09	\$0.00	\$88.59
	02/01/2021	\$56.39	\$10.75	\$22.09	\$0.00	\$89.23
	08/01/2021	\$57.79	\$10.75	\$22.25	\$0.00	\$90.79
	02/01/2022	\$58.38	\$10.75	\$22.25	\$0.00	\$91.38

Issue Date: 10/20/2020

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Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
CARPENTER	09/01/2020	\$42.94	\$9.40	\$18.95	\$0.00	\$71.29
CARPENTERS -ZONE 2 (Eastern Massachusetts)	03/01/2021	\$43.54	\$9.40	\$18.95	\$0.00	\$71.89
	09/01/2021	\$44.19	\$9.40	\$18.95	\$0.00	\$72.54
	03/01/2022	\$44.79	\$9.40	\$18.95	\$0.00	\$73.14
	09/01/2022	\$45.44	\$9.40	\$18.95	\$0.00	\$73.79
	03/01/2023	\$46.04	\$9.40	\$18.95	\$0.00	\$74.39

Apprentice - CARPENTER - Zone 2 Eastern MA

Effective Date - 09/01/2020

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$21.47	\$9.40	\$1.73	\$0.00	\$32.60
2	60	\$25.76	\$9.40	\$1.73	\$0.00	\$36.89
3	70	\$30.06	\$9.40	\$13.76	\$0.00	\$53.22
4	75	\$32.21	\$9.40	\$13.76	\$0.00	\$55.37
5	80	\$34.35	\$9.40	\$15.49	\$0.00	\$59.24
6	80	\$34.35	\$9.40	\$15.49	\$0.00	\$59.24
7	90	\$38.65	\$9.40	\$17.22	\$0.00	\$65.27
8	90	\$38.65	\$9.40	\$17.22	\$0.00	\$65.27

Effective Date - 03/01/2021

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$21.77	\$9.40	\$1.73	\$0.00	\$32.90
2	60	\$26.12	\$9.40	\$1.73	\$0.00	\$37.25
3	70	\$30.48	\$9.40	\$13.76	\$0.00	\$53.64
4	75	\$32.66	\$9.40	\$13.76	\$0.00	\$55.82
5	80	\$34.83	\$9.40	\$15.49	\$0.00	\$59.72
6	80	\$34.83	\$9.40	\$15.49	\$0.00	\$59.72
7	90	\$39.19	\$9.40	\$17.22	\$0.00	\$65.81
8	90	\$39.19	\$9.40	\$17.22	\$0.00	\$65.81

Notes:

% Indentured After 10/1/17; 45/45/55/55/70/70/80/80  
Step 1&2 \$30.45/ 3&4 \$36.42/ 5&6 \$54.95/ 7&8 \$60.97

Apprentice to Journeyworker Ratio:1:5

CARPENTER WOOD FRAME	04/01/2020	\$27.12	\$7.21	\$5.80	\$0.00	\$40.13
CARPENTERS -ZONE 2 (Wood Frame)	04/01/2021	\$27.87	\$7.21	\$5.80	\$0.00	\$40.88
	04/01/2022	\$28.62	\$7.21	\$5.80	\$0.00	\$41.63
	04/01/2023	\$28.97	\$7.21	\$5.80	\$0.00	\$41.98

All Aspects of New Wood Frame Work

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - CARPENTER (Wood Frame) - Zone 2

Effective Date - 04/01/2020

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$16.27	\$7.21	\$0.00	\$0.00	\$23.48
2	60	\$16.27	\$7.21	\$0.00	\$0.00	\$23.48
3	65	\$17.63	\$7.21	\$2.00	\$0.00	\$26.84
4	70	\$18.98	\$7.21	\$2.00	\$0.00	\$28.19
5	75	\$20.34	\$7.21	\$5.80	\$0.00	\$33.35
6	80	\$21.70	\$7.21	\$5.80	\$0.00	\$34.71
7	85	\$23.05	\$7.21	\$5.80	\$0.00	\$36.06
8	90	\$24.41	\$7.21	\$5.80	\$0.00	\$37.42

Effective Date - 04/01/2021

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$16.72	\$7.21	\$0.00	\$0.00	\$23.93
2	60	\$16.72	\$7.21	\$0.00	\$0.00	\$23.93
3	65	\$18.12	\$7.21	\$2.00	\$0.00	\$27.33
4	70	\$19.51	\$7.21	\$2.00	\$0.00	\$28.72
5	75	\$20.90	\$7.21	\$5.80	\$0.00	\$33.91
6	80	\$22.30	\$7.21	\$5.80	\$0.00	\$35.31
7	85	\$23.69	\$7.21	\$5.80	\$0.00	\$36.70
8	90	\$25.08	\$7.21	\$5.80	\$0.00	\$38.09

Notes:  
 % Indentured After 10/1/17; 45/45/55/55/70/70/80/80  
 Step 1&2 \$19.41/ 3&4 \$24.13/ 5&6 \$31.99/ 7&8 \$34.71  
 Apprentice to Journeyworker Ratio:1:5

CEMENT MASONRY/PLASTERING 01/01/2020 \$49.07 \$12.75 \$22.41 \$0.62 \$84.85  
 BRICKLAYERS LOCAL 3 (NEWTON)

Apprentice - CEMENT MASONRY/PLASTERING - Eastern Mass (Newton)

Effective Date - 01/01/2020

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$24.54	\$12.75	\$15.41	\$0.00	\$52.70
2	60	\$29.44	\$12.75	\$17.41	\$0.62	\$60.22
3	65	\$31.90	\$12.75	\$18.41	\$0.62	\$63.68
4	70	\$34.35	\$12.75	\$19.41	\$0.62	\$67.13
5	75	\$36.80	\$12.75	\$20.41	\$0.62	\$70.58
6	80	\$39.26	\$12.75	\$21.41	\$0.62	\$74.04
7	90	\$44.16	\$12.75	\$22.41	\$0.62	\$79.94

Notes:  
 Steps 3,4 are 500 hrs. All other steps are 1,000 hrs.  
 Apprentice to Journeyworker Ratio:1:3

Issue Date: 10/20/2020

Wage Request Number: 20201020-024

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Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
CHAIN SAW OPERATOR <i>LABORERS - ZONE 1</i>	06/01/2020	\$39.40	\$8.60	\$17.09	\$0.00	\$65.09
	12/01/2020	\$40.38	\$8.60	\$17.09	\$0.00	\$66.07
	06/01/2021	\$41.40	\$8.60	\$17.09	\$0.00	\$67.09
	12/01/2021	\$42.41	\$8.60	\$17.09	\$0.00	\$68.10
For apprentice rates see *Apprentice- LABORER*						
CLAM SHELLS/SLURRY BUCKETS/HEADING MACHINES <i>OPERATING ENGINEERS LOCAL 4</i>	06/01/2020	\$50.33	\$13.00	\$15.70	\$0.00	\$79.03
	12/01/2020	\$51.48	\$13.00	\$15.70	\$0.00	\$80.18
	06/01/2021	\$52.58	\$13.00	\$15.70	\$0.00	\$81.28
	12/01/2021	\$53.73	\$13.00	\$15.70	\$0.00	\$82.43
For apprentice rates see *Apprentice- OPERATING ENGINEERS*						
COMPRESSOR OPERATOR <i>OPERATING ENGINEERS LOCAL 4</i>	06/01/2020	\$32.72	\$13.00	\$15.70	\$0.00	\$61.42
	12/01/2020	\$33.50	\$13.00	\$15.70	\$0.00	\$62.20
	06/01/2021	\$34.25	\$13.00	\$15.70	\$0.00	\$62.95
	12/01/2021	\$35.04	\$13.00	\$15.70	\$0.00	\$63.74
For apprentice rates see *Apprentice- OPERATING ENGINEERS*						
DELEADER (BRIDGE) <i>PAINTERS LOCAL 35 - ZONE 2</i>	07/01/2020	\$51.51	\$8.25	\$22.40	\$0.00	\$82.16
	01/01/2021	\$52.06	\$8.25	\$22.75	\$0.00	\$83.06

**Apprentice - PAINTER Local 35 - BRIDGES/TANKS**

Effective Date - 07/01/2020

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$25.76	\$8.25	\$0.00	\$0.00	\$34.01
2	55	\$28.33	\$8.25	\$6.05	\$0.00	\$42.63
3	60	\$30.91	\$8.25	\$6.60	\$0.00	\$45.76
4	65	\$33.48	\$8.25	\$7.15	\$0.00	\$48.88
5	70	\$36.06	\$8.25	\$19.10	\$0.00	\$63.41
6	75	\$38.63	\$8.25	\$19.65	\$0.00	\$66.53
7	80	\$41.21	\$8.25	\$20.20	\$0.00	\$69.66
8	90	\$46.36	\$8.25	\$21.30	\$0.00	\$75.91

Effective Date - 01/01/2021

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$26.03	\$8.25	\$0.00	\$0.00	\$34.28
2	55	\$28.63	\$8.25	\$6.16	\$0.00	\$43.04
3	60	\$31.24	\$8.25	\$6.72	\$0.00	\$46.21
4	65	\$33.84	\$8.25	\$7.28	\$0.00	\$49.37
5	70	\$36.44	\$8.25	\$19.39	\$0.00	\$64.08
6	75	\$39.05	\$8.25	\$19.95	\$0.00	\$67.25
7	80	\$41.65	\$8.25	\$20.51	\$0.00	\$70.41
8	90	\$46.85	\$8.25	\$21.63	\$0.00	\$76.73

**Notes:**

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
DEMO: ADZEMAN <i>LABORERS - ZONE 1</i>	12/01/2019	\$39.30	\$8.10	\$16.60	\$0.00	\$64.00
For apprentice rates see "Apprentice- LABORER"						
DEMO: BACKHOE/LOADER/HAMMER OPERATOR <i>LABORERS - ZONE 1</i>	12/01/2019	\$40.30	\$8.10	\$16.60	\$0.00	\$65.00
For apprentice rates see "Apprentice- LABORER"						
DEMO: BURNERS <i>LABORERS - ZONE 1</i>	12/01/2019	\$40.05	\$8.10	\$16.60	\$0.00	\$64.75
For apprentice rates see "Apprentice- LABORER"						
DEMO: CONCRETE CUTTER/SAWYER <i>LABORERS - ZONE 1</i>	12/01/2019	\$40.30	\$8.10	\$16.60	\$0.00	\$65.00
For apprentice rates see "Apprentice- LABORER"						
DEMO: JACKHAMMER OPERATOR <i>LABORERS - ZONE 1</i>	12/01/2019	\$40.05	\$8.10	\$16.60	\$0.00	\$64.75
For apprentice rates see "Apprentice- LABORER"						
DEMO: WRECKING LABORER <i>LABORERS - ZONE 1</i>	12/01/2019	\$39.30	\$8.10	\$16.60	\$0.00	\$64.00
For apprentice rates see "Apprentice- LABORER"						
DIRECTIONAL DRILL MACHINE OPERATOR <i>OPERATING ENGINEERS LOCAL 4</i>	06/01/2020	\$48.81	\$13.00	\$15.70	\$0.00	\$77.51
	12/01/2020	\$49.95	\$13.00	\$15.70	\$0.00	\$78.65
	06/01/2021	\$51.04	\$13.00	\$15.70	\$0.00	\$79.74
	12/01/2021	\$52.18	\$13.00	\$15.70	\$0.00	\$80.88
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
DIVER <i>PILE DRIVER LOCAL 56 (ZONE 1)</i>	08/01/2020	\$68.70	\$9.40	\$23.12	\$0.00	\$101.22
For apprentice rates see "Apprentice- PILE DRIVER"						
DIVER TENDER <i>PILE DRIVER LOCAL 56 (ZONE 1)</i>	08/01/2020	\$49.07	\$9.40	\$23.12	\$0.00	\$81.59
For apprentice rates see "Apprentice- PILE DRIVER"						
DIVER TENDER (EFFLUENT) <i>PILE DRIVER LOCAL 56 (ZONE 1)</i>	08/01/2020	\$73.60	\$9.40	\$23.12	\$0.00	\$106.12
For apprentice rates see "Apprentice- PILE DRIVER"						
DIVER/SLURRY (EFFLUENT) <i>PILE DRIVER LOCAL 56 (ZONE 1)</i>	08/01/2020	\$103.05	\$9.40	\$23.12	\$0.00	\$135.57
For apprentice rates see "Apprentice- PILE DRIVER"						
DRAWBRIDGE OPERATOR (Construction) <i>DRAWBRIDGE - SEIU LOCAL 888</i>	07/01/2020	\$26.77	\$6.67	\$3.93	\$0.16	\$37.53
ELECTRICIAN <i>ELECTRICIANS LOCAL 103</i>	09/01/2020	\$54.45	\$13.00	\$19.73	\$0.00	\$87.18
	03/01/2021	\$55.41	\$13.00	\$20.01	\$0.00	\$88.42
	09/01/2021	\$56.84	\$13.00	\$20.06	\$0.00	\$89.90
	03/01/2022	\$58.04	\$13.00	\$20.09	\$0.00	\$91.13
	09/01/2022	\$59.48	\$13.00	\$20.13	\$0.00	\$92.61
	03/01/2023	\$60.67	\$13.00	\$20.17	\$0.00	\$93.84

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - ELECTRICIAN - Local 103

Effective Date - 09/01/2020

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$21.78	\$13.00	\$0.65	\$0.00	\$35.43
2	40	\$21.78	\$13.00	\$0.65	\$0.00	\$35.43
3	45	\$24.50	\$13.00	\$14.87	\$0.00	\$52.37
4	45	\$24.50	\$13.00	\$14.87	\$0.00	\$52.37
5	50	\$27.23	\$13.00	\$15.31	\$0.00	\$55.54
6	55	\$29.95	\$13.00	\$15.75	\$0.00	\$58.70
7	60	\$32.67	\$13.00	\$16.19	\$0.00	\$61.86
8	65	\$35.39	\$13.00	\$16.63	\$0.00	\$65.02
9	70	\$38.12	\$13.00	\$17.07	\$0.00	\$68.19
10	75	\$40.84	\$13.00	\$17.53	\$0.00	\$71.37

Effective Date - 03/01/2021

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$22.16	\$13.00	\$0.66	\$0.00	\$35.82
2	40	\$22.16	\$13.00	\$0.66	\$0.00	\$35.82
3	45	\$24.93	\$13.00	\$15.13	\$0.00	\$53.06
4	45	\$24.93	\$13.00	\$15.13	\$0.00	\$53.06
5	50	\$27.71	\$13.00	\$15.57	\$0.00	\$56.28
6	55	\$30.48	\$13.00	\$16.01	\$0.00	\$59.49
7	60	\$33.25	\$13.00	\$16.46	\$0.00	\$62.71
8	65	\$36.02	\$13.00	\$16.90	\$0.00	\$65.92
9	70	\$38.79	\$13.00	\$17.34	\$0.00	\$69.13
10	75	\$41.56	\$13.00	\$17.80	\$0.00	\$72.36

Notes :  
 App Prior 1/1/03; 30/35/40/45/50/55/65/70/75/80  
 Apprentice to Journeyworker Ratio:2:3\*\*\*

ELEVATOR CONSTRUCTOR	01/01/2020	\$61.42	\$15.73	\$18.41	\$0.00	\$95.56
ELEVATOR CONSTRUCTORS LOCAL 4	01/01/2021	\$63.47	\$15.88	\$19.31	\$0.00	\$98.66
	01/01/2022	\$65.62	\$16.03	\$20.21	\$0.00	\$101.86

Issue Date: 10/20/2020

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Classification Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - *ELEVATOR CONSTRUCTOR - Local 4*

Effective Date - 01/01/2020

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$30.71	\$15.73	\$0.00	\$0.00	\$46.44
2	55	\$33.78	\$15.73	\$18.41	\$0.00	\$67.92
3	65	\$39.92	\$15.73	\$18.41	\$0.00	\$74.06
4	70	\$42.99	\$15.73	\$18.41	\$0.00	\$77.13
5	80	\$49.14	\$15.73	\$18.41	\$0.00	\$83.28

Effective Date - 01/01/2021

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$31.74	\$15.88	\$0.00	\$0.00	\$47.62
2	55	\$34.91	\$15.88	\$19.31	\$0.00	\$70.10
3	65	\$41.26	\$15.88	\$19.31	\$0.00	\$76.45
4	70	\$44.43	\$15.88	\$19.31	\$0.00	\$79.62
5	80	\$50.78	\$15.88	\$19.31	\$0.00	\$85.97

Notes:

Steps 1-2 are 6 mos.; Steps 3-5 are 1 year

Apprentice to Journeyworker Ratio:1:1

ELEVATOR CONSTRUCTOR HELPER	01/01/2020	\$42.99	\$15.73	\$18.41	\$0.00	\$77.13
<i>ELEVATOR CONSTRUCTORS LOCAL 4</i>	01/01/2021	\$44.43	\$15.88	\$19.31	\$0.00	\$79.62
	01/01/2022	\$45.93	\$16.03	\$20.21	\$0.00	\$82.17
For apprentice rates see "Apprentice - ELEVATOR CONSTRUCTOR"						
FENCE & GUARD RAIL ERECTOR	06/01/2020	\$39.40	\$8.60	\$17.09	\$0.00	\$65.09
<i>LABORERS - ZONE 1</i>	12/01/2020	\$40.38	\$8.60	\$17.09	\$0.00	\$66.07
	06/01/2021	\$41.40	\$8.60	\$17.09	\$0.00	\$67.09
	12/01/2021	\$42.41	\$8.60	\$17.09	\$0.00	\$68.10
For apprentice rates see "Apprentice - LABORER"						
FIELD ENG. INST. PERSON-BLDG, SITE, HVY/HWY	05/01/2020	\$44.73	\$12.50	\$15.70	\$0.00	\$72.93
<i>OPERATING ENGINEERS LOCAL 4</i>	11/01/2020	\$45.23	\$13.00	\$15.70	\$0.00	\$73.93
	05/01/2021	\$46.38	\$13.00	\$15.70	\$0.00	\$75.08
	11/01/2021	\$47.38	\$13.00	\$15.70	\$0.00	\$76.08
	05/01/2022	\$48.53	\$13.00	\$15.70	\$0.00	\$77.23
For apprentice rates see "Apprentice - OPERATING ENGINEERS"						
FIELD ENG. PARTY CHIEF-BLDG, SITE, HVY/HWY	05/01/2020	\$46.23	\$12.50	\$15.70	\$0.00	\$74.43
<i>OPERATING ENGINEERS LOCAL 4</i>	11/01/2020	\$46.74	\$13.00	\$15.70	\$0.00	\$75.44
	05/01/2021	\$47.90	\$13.00	\$15.70	\$0.00	\$76.60
	11/01/2021	\$48.91	\$13.00	\$15.70	\$0.00	\$77.61
	05/01/2022	\$50.07	\$13.00	\$15.70	\$0.00	\$78.77
For apprentice rates see "Apprentice - OPERATING ENGINEERS"						

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Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
FIELD ENGINEER PERSON-BLDG, SITE, HVY/HWY OPERATING ENGINEERS LOCAL 4	05/01/2020	\$22.64	\$12.50	\$15.70	\$0.00	\$50.84
	11/01/2020	\$22.73	\$13.00	\$15.70	\$0.00	\$51.43
	05/01/2021	\$23.41	\$13.00	\$15.70	\$0.00	\$52.11
	11/01/2021	\$24.01	\$13.00	\$15.70	\$0.00	\$52.71
	05/01/2022	\$24.68	\$13.00	\$15.70	\$0.00	\$53.38
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
FIRE ALARM INSTALLER ELECTRICIANS LOCAL 103	09/01/2020	\$54.45	\$13.00	\$19.73	\$0.00	\$87.18
	03/01/2021	\$55.41	\$13.00	\$20.01	\$0.00	\$88.42
	09/01/2021	\$56.84	\$13.00	\$20.06	\$0.00	\$89.90
	03/01/2022	\$58.04	\$13.00	\$20.09	\$0.00	\$91.13
	09/01/2022	\$59.48	\$13.00	\$20.13	\$0.00	\$92.61
	03/01/2023	\$60.67	\$13.00	\$20.17	\$0.00	\$93.84
For apprentice rates see "Apprentice- ELECTRICIAN"						
FIRE ALARM REPAIR / MAINTENANCE / COMMISSIONING ELECTRICIANS LOCAL 103	09/01/2020	\$40.84	\$13.00	\$17.53	\$0.00	\$71.37
	03/01/2021	\$42.11	\$13.00	\$17.88	\$0.00	\$72.99
	09/01/2021	\$43.77	\$13.00	\$18.00	\$0.00	\$74.77
	03/01/2022	\$45.27	\$13.00	\$18.12	\$0.00	\$76.39
	09/01/2022	\$46.99	\$13.00	\$18.24	\$0.00	\$78.23
	03/01/2023	\$48.54	\$13.00	\$18.37	\$0.00	\$79.91
For apprentice rates see "Apprentice- TELECOMMUNICATIONS TECHNICIAN"						
FIREMAN (ASST. ENGINEER) OPERATING ENGINEERS LOCAL 4	06/01/2020	\$40.30	\$13.00	\$15.70	\$0.00	\$69.00
	12/01/2020	\$41.25	\$13.00	\$15.70	\$0.00	\$69.95
	06/01/2021	\$42.16	\$13.00	\$15.70	\$0.00	\$70.86
	12/01/2021	\$43.11	\$13.00	\$15.70	\$0.00	\$71.81
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
FLAGGER & SIGNALER LABORERS - ZONE 1	06/01/2020	\$23.50	\$8.60	\$17.09	\$0.00	\$49.19
	12/01/2020	\$24.50	\$8.60	\$17.09	\$0.00	\$50.19
	06/01/2021	\$24.50	\$8.60	\$17.09	\$0.00	\$50.19
	12/01/2021	\$24.50	\$8.60	\$17.09	\$0.00	\$50.19
For apprentice rates see "Apprentice- LABORER"						
FLOORCOVERER FLOORCOVERERS LOCAL 2168 ZONE 1	09/01/2020	\$47.79	\$9.40	\$19.25	\$0.00	\$76.44
	03/01/2021	\$48.59	\$9.40	\$19.25	\$0.00	\$77.24
	09/01/2021	\$49.39	\$9.40	\$19.25	\$0.00	\$78.04
	03/01/2022	\$50.19	\$9.40	\$19.25	\$0.00	\$78.84

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Classification Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - FLOORCOVERER - Local 2168 Zone 1

Effective Date - 09/01/2020

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$23.90	\$9.40	\$1.79	\$0.00	\$35.09
2	55	\$26.28	\$9.40	\$1.79	\$0.00	\$37.47
3	60	\$28.67	\$9.40	\$13.88	\$0.00	\$51.95
4	65	\$31.06	\$9.40	\$13.88	\$0.00	\$54.34
5	70	\$33.45	\$9.40	\$15.67	\$0.00	\$58.52
6	75	\$35.84	\$9.40	\$15.67	\$0.00	\$60.91
7	80	\$38.23	\$9.40	\$17.46	\$0.00	\$65.09
8	85	\$40.62	\$9.40	\$17.46	\$0.00	\$67.48

Effective Date - 03/01/2021

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$24.30	\$9.40	\$1.79	\$0.00	\$35.49
2	55	\$26.72	\$9.40	\$1.79	\$0.00	\$37.91
3	60	\$29.15	\$9.40	\$13.88	\$0.00	\$52.43
4	65	\$31.58	\$9.40	\$13.88	\$0.00	\$54.86
5	70	\$34.01	\$9.40	\$15.67	\$0.00	\$59.08
6	75	\$36.44	\$9.40	\$15.67	\$0.00	\$61.51
7	80	\$38.87	\$9.40	\$17.46	\$0.00	\$65.73
8	85	\$41.30	\$9.40	\$17.46	\$0.00	\$68.16

Notes: Steps are 750 hrs.  
 % After 09/1/17; 45/45/55/55/70/70/80/80 (1500hr Steps)  
 Step 1&2 \$32.70/ 3&4 \$39.20/ 5&6 \$58.52/ 7&8 \$65.09

Apprentice to Journeyworker Ratio:1:1

FORK LIFT/CHERRY PICKER OPERATING ENGINEERS LOCAL 4	06/01/2020	\$49.33	\$13.00	\$15.70	\$0.00	\$78.03
	12/01/2020	\$50.48	\$13.00	\$15.70	\$0.00	\$79.18
	06/01/2021	\$51.58	\$13.00	\$15.70	\$0.00	\$80.28
	12/01/2021	\$52.73	\$13.00	\$15.70	\$0.00	\$81.43
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
GENERATOR/LIGHTING PLANT/HEATERS OPERATING ENGINEERS LOCAL 4	06/01/2020	\$32.72	\$13.00	\$15.70	\$0.00	\$61.42
	12/01/2020	\$33.50	\$13.00	\$15.70	\$0.00	\$62.20
	06/01/2021	\$34.25	\$13.00	\$15.70	\$0.00	\$62.95
	12/01/2021	\$35.04	\$13.00	\$15.70	\$0.00	\$63.74
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS) GLAZIERS LOCAL 35 (ZONE 2)	07/01/2020	\$41.01	\$8.25	\$22.40	\$0.00	\$71.66
	01/01/2021	\$41.56	\$8.25	\$22.75	\$0.00	\$72.56

Issue Date: 10/20/2020

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Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - GLAZIER - Local 35 Zone 2

Effective Date - 07/01/2020

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$20.51	\$8.25	\$0.00	\$0.00	\$28.76
2	55	\$22.56	\$8.25	\$6.05	\$0.00	\$36.86
3	60	\$24.61	\$8.25	\$6.60	\$0.00	\$39.46
4	65	\$26.66	\$8.25	\$7.15	\$0.00	\$42.06
5	70	\$28.71	\$8.25	\$19.10	\$0.00	\$56.06
6	75	\$30.76	\$8.25	\$19.65	\$0.00	\$58.66
7	80	\$32.81	\$8.25	\$20.20	\$0.00	\$61.26
8	90	\$36.91	\$8.25	\$21.30	\$0.00	\$66.46

Effective Date - 01/01/2021

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$20.78	\$8.25	\$0.00	\$0.00	\$29.03
2	55	\$22.86	\$8.25	\$6.16	\$0.00	\$37.27
3	60	\$24.94	\$8.25	\$6.72	\$0.00	\$39.91
4	65	\$27.01	\$8.25	\$7.28	\$0.00	\$42.54
5	70	\$29.09	\$8.25	\$19.39	\$0.00	\$56.73
6	75	\$31.17	\$8.25	\$19.95	\$0.00	\$59.37
7	80	\$33.25	\$8.25	\$20.51	\$0.00	\$62.01
8	90	\$37.40	\$8.25	\$21.63	\$0.00	\$67.28

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

HOISTING ENGINEER/CRANES/GRADALLS	06/01/2020	\$49.33	\$13.00	\$15.70	\$0.00	\$78.03
OPERATING ENGINEERS LOCAL 4	12/01/2020	\$50.48	\$13.00	\$15.70	\$0.00	\$79.18
	06/01/2021	\$51.58	\$13.00	\$15.70	\$0.00	\$80.28
	12/01/2021	\$52.73	\$13.00	\$15.70	\$0.00	\$81.43

Issue Date: 10/20/2020

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Classification Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - OPERATING ENGINEERS - Local 4

Effective Date - 06/01/2020

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$27.13	\$13.00	\$0.00	\$0.00	\$40.13
2	60	\$29.60	\$13.00	\$15.70	\$0.00	\$58.30
3	65	\$32.06	\$13.00	\$15.70	\$0.00	\$60.76
4	70	\$34.53	\$13.00	\$15.70	\$0.00	\$63.23
5	75	\$37.00	\$13.00	\$15.70	\$0.00	\$65.70
6	80	\$39.46	\$13.00	\$15.70	\$0.00	\$68.16
7	85	\$41.93	\$13.00	\$15.70	\$0.00	\$70.63
8	90	\$44.40	\$13.00	\$15.70	\$0.00	\$73.10

Effective Date - 12/01/2020

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$27.76	\$13.00	\$0.00	\$0.00	\$40.76
2	60	\$30.29	\$13.00	\$15.70	\$0.00	\$58.99
3	65	\$32.81	\$13.00	\$15.70	\$0.00	\$61.51
4	70	\$35.34	\$13.00	\$15.70	\$0.00	\$64.04
5	75	\$37.86	\$13.00	\$15.70	\$0.00	\$66.56
6	80	\$40.38	\$13.00	\$15.70	\$0.00	\$69.08
7	85	\$42.91	\$13.00	\$15.70	\$0.00	\$71.61
8	90	\$45.43	\$13.00	\$15.70	\$0.00	\$74.13

Notes:

Apprentice to Journeyworker Ratio:1:6

HVAC (DUCTWORK) SHEETMETAL WORKERS LOCAL 17 - A	08/01/2020	\$50.67	\$13.50	\$24.12	\$2.65	\$90.94
	02/01/2021	\$52.32	\$13.50	\$24.12	\$2.70	\$92.64
	08/01/2021	\$54.07	\$13.50	\$24.12	\$2.75	\$94.44
	02/01/2022	\$55.82	\$13.50	\$24.12	\$2.80	\$96.24

For apprentice rates see "Apprentice- SHEET METAL WORKER"

HVAC (ELECTRICAL CONTROLS) ELECTRICIANS LOCAL 103	09/01/2020	\$54.45	\$13.00	\$19.73	\$0.00	\$87.18
	03/01/2021	\$55.41	\$13.00	\$20.01	\$0.00	\$88.42
	09/01/2021	\$56.84	\$13.00	\$20.06	\$0.00	\$89.90
	03/01/2022	\$58.04	\$13.00	\$20.09	\$0.00	\$91.13
	09/01/2022	\$59.48	\$13.00	\$20.13	\$0.00	\$92.61
03/01/2023	\$60.67	\$13.00	\$20.17	\$0.00	\$93.84	

For apprentice rates see "Apprentice- ELECTRICIAN"

HVAC (TESTING AND BALANCING - AIR) SHEETMETAL WORKERS LOCAL 17 - A	08/01/2020	\$50.67	\$13.50	\$24.12	\$2.65	\$90.94
	02/01/2021	\$52.32	\$13.50	\$24.12	\$2.70	\$92.64
	08/01/2021	\$54.07	\$13.50	\$24.12	\$2.75	\$94.44
	02/01/2022	\$55.82	\$13.50	\$24.12	\$2.80	\$96.24

For apprentice rates see "Apprentice- SHEET METAL WORKER"

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Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
HVAC (TESTING AND BALANCING -WATER) PIPEFITTERS LOCAL 537	09/01/2020	\$56.44	\$11.70	\$20.24	\$0.00	\$88.38
	03/01/2021	\$57.94	\$11.70	\$20.24	\$0.00	\$89.88
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"						
HVAC MECHANIC PIPEFITTERS LOCAL 537	09/01/2020	\$56.44	\$11.70	\$20.24	\$0.00	\$88.38
	03/01/2021	\$57.94	\$11.70	\$20.24	\$0.00	\$89.88
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"						
HYDRAULIC DRILLS LABORERS - ZONE 1	06/01/2020	\$39.90	\$8.60	\$17.09	\$0.00	\$65.59
	12/01/2020	\$40.88	\$8.60	\$17.09	\$0.00	\$66.57
	06/01/2021	\$41.90	\$8.60	\$17.09	\$0.00	\$67.59
	12/01/2021	\$42.91	\$8.60	\$17.09	\$0.00	\$68.60
For apprentice rates see "Apprentice- LABORER"						
INSULATOR (PIPES & TANKS) HEAT & FROST INSULATORS LOCAL 6 (BOSTON)	09/01/2020	\$49.00	\$13.80	\$17.14	\$0.00	\$79.94
	09/01/2021	\$51.40	\$13.80	\$17.14	\$0.00	\$82.34
	09/01/2022	\$53.85	\$13.80	\$17.14	\$0.00	\$84.79

**Apprentice - ASBESTOS INSULATOR (Pipes & Tanks) - Local 6 Boston**

Effective Date - 09/01/2020

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$24.50	\$13.80	\$12.42	\$0.00	\$50.72
2	60	\$29.40	\$13.80	\$13.36	\$0.00	\$56.56
3	70	\$34.30	\$13.80	\$14.31	\$0.00	\$62.41
4	80	\$39.20	\$13.80	\$15.25	\$0.00	\$68.25

Effective Date - 09/01/2021

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$25.70	\$13.80	\$12.42	\$0.00	\$51.92
2	60	\$30.84	\$13.80	\$13.36	\$0.00	\$58.00
3	70	\$35.98	\$13.80	\$14.31	\$0.00	\$64.09
4	80	\$41.12	\$13.80	\$15.25	\$0.00	\$70.17

**Notes:**

Steps are 1 year

Apprentice to Journeyworker Ratio: 1:4

IRONWORKER/WELDER IRONWORKERS LOCAL 7 (BOSTON AREA)	09/16/2020	\$48.66	\$8.10	\$25.10	\$0.00	\$81.86
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Issue Date: 10/20/2020

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Classification Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - IRONWORKER - Local 7 Boston  
Effective Date - 09/16/2020

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$29.20	\$8.10	\$25.10	\$0.00	\$62.40
2	70	\$34.06	\$8.10	\$25.10	\$0.00	\$67.26
3	75	\$36.50	\$8.10	\$25.10	\$0.00	\$69.70
4	80	\$38.93	\$8.10	\$25.10	\$0.00	\$72.13
5	85	\$41.36	\$8.10	\$25.10	\$0.00	\$74.56
6	90	\$43.79	\$8.10	\$25.10	\$0.00	\$76.99

Notes:  
\*\* Structural 1:6; Ornamental 1:4

Apprentice to Journeyworker Ratio:\*\*

JACKHAMMER & PAVING BREAKER OPERATOR LABORERS - ZONE 1	06/01/2020	\$39.40	\$8.60	\$17.09	\$0.00	\$65.09
	12/01/2020	\$40.38	\$8.60	\$17.09	\$0.00	\$66.07
	06/01/2021	\$41.40	\$8.60	\$17.09	\$0.00	\$67.09
	12/01/2021	\$42.41	\$8.60	\$17.09	\$0.00	\$68.10

For apprentice rates see \*Apprentice- LABORER\*

LABORER LABORERS - ZONE 1	06/01/2020	\$39.15	\$8.60	\$17.09	\$0.00	\$64.84
	12/01/2020	\$40.13	\$8.60	\$17.09	\$0.00	\$65.82
	06/01/2021	\$41.15	\$8.60	\$17.09	\$0.00	\$66.84
	12/01/2021	\$42.16	\$8.60	\$17.09	\$0.00	\$67.85

Apprentice - LABORER - Zone 1

Effective Date - 06/01/2020

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$23.49	\$8.60	\$17.09	\$0.00	\$49.18
2	70	\$27.41	\$8.60	\$17.09	\$0.00	\$53.10
3	80	\$31.32	\$8.60	\$17.09	\$0.00	\$57.01
4	90	\$35.24	\$8.60	\$17.09	\$0.00	\$60.93

Effective Date - 12/01/2020

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$24.08	\$8.60	\$17.09	\$0.00	\$49.77
2	70	\$28.09	\$8.60	\$17.09	\$0.00	\$53.78
3	80	\$32.10	\$8.60	\$17.09	\$0.00	\$57.79
4	90	\$36.12	\$8.60	\$17.09	\$0.00	\$61.81

Notes:  
Apprentice to Journeyworker Ratio:1:5

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate	
LABORER: CARPENTER TENDER <i>LABORERS - ZONE 1</i>	06/01/2020	\$39.15	\$8.60	\$17.09	\$0.00	\$64.84	
	12/01/2020	\$40.13	\$8.60	\$17.09	\$0.00	\$65.82	
	06/01/2021	\$41.15	\$8.60	\$17.09	\$0.00	\$66.84	
	12/01/2021	\$42.16	\$8.60	\$17.09	\$0.00	\$67.85	
For apprentice rates see "Apprentice- LABORER"							
LABORER: CEMENT FINISHER TENDER <i>LABORERS - ZONE 1</i>	06/01/2020	\$39.15	\$8.60	\$17.09	\$0.00	\$64.84	
	12/01/2020	\$40.13	\$8.60	\$17.09	\$0.00	\$65.82	
	06/01/2021	\$41.15	\$8.60	\$17.09	\$0.00	\$66.84	
	12/01/2021	\$42.16	\$8.60	\$17.09	\$0.00	\$67.85	
For apprentice rates see "Apprentice- LABORER"							
LABORER: HAZARDOUS WASTE/ASBESTOS REMOVER <i>LABORERS - ZONE 1</i>	06/01/2020	\$39.30	\$8.60	\$17.09	\$0.00	\$64.99	
	For apprentice rates see "Apprentice- LABORER"						
	LABORER: MASON TENDER <i>LABORERS - ZONE 1</i>	06/01/2020	\$39.40	\$8.60	\$17.09	\$0.00	\$65.09
		12/01/2020	\$40.38	\$8.60	\$17.09	\$0.00	\$66.07
06/01/2021		\$41.40	\$8.60	\$17.09	\$0.00	\$67.09	
12/01/2021		\$42.41	\$8.60	\$17.09	\$0.00	\$68.10	
For apprentice rates see "Apprentice- LABORER"							
LABORER: MULTI-TRADE TENDER <i>LABORERS - ZONE 1</i>	06/01/2020	\$39.15	\$8.60	\$17.09	\$0.00	\$64.84	
	12/01/2020	\$40.13	\$8.60	\$17.09	\$0.00	\$65.82	
	06/01/2021	\$41.15	\$8.60	\$17.09	\$0.00	\$66.84	
	12/01/2021	\$42.16	\$8.60	\$17.09	\$0.00	\$67.85	
For apprentice rates see "Apprentice- LABORER"							
LABORER: TREE REMOVER <i>LABORERS - ZONE 1</i>	06/01/2020	\$39.15	\$8.60	\$17.09	\$0.00	\$64.84	
	12/01/2020	\$40.13	\$8.60	\$17.09	\$0.00	\$65.82	
	06/01/2021	\$41.15	\$8.60	\$17.09	\$0.00	\$66.84	
	12/01/2021	\$42.16	\$8.60	\$17.09	\$0.00	\$67.85	
This classification applies to the removal of standing trees, and the trimming and removal of branches and limbs when related to public works construction or site clearance incidental to construction . For apprentice rates see "Apprentice- LABORER"							
LASER BEAM OPERATOR <i>LABORERS - ZONE 1</i>	06/01/2020	\$39.40	\$8.60	\$17.09	\$0.00	\$65.09	
	12/01/2020	\$40.38	\$8.60	\$17.09	\$0.00	\$66.07	
	06/01/2021	\$41.40	\$8.60	\$17.09	\$0.00	\$67.09	
	12/01/2021	\$42.41	\$8.60	\$17.09	\$0.00	\$68.10	
For apprentice rates see "Apprentice- LABORER"							
MARBLE & TILE FINISHERS <i>BRICKLAYERS LOCAL 3 - MARBLE &amp; TILE</i>	08/01/2020	\$42.57	\$10.75	\$20.27	\$0.00	\$73.59	
	02/01/2021	\$43.08	\$10.75	\$20.27	\$0.00	\$74.10	
	08/01/2021	\$44.20	\$10.75	\$20.43	\$0.00	\$75.38	
	02/01/2022	\$44.67	\$10.75	\$20.43	\$0.00	\$75.85	

Classification

Effective Date    Base Wage    Health    Pension    Supplemental Unemployment    Total Rate

Apprentice - MARBLE & TILE FINISHER - Local 3 Marble & Tile  
 Effective Date - 08/01/2020

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$21.29	\$10.75	\$20.27	\$0.00	\$52.31
2	60	\$25.54	\$10.75	\$20.27	\$0.00	\$56.56
3	70	\$29.80	\$10.75	\$20.27	\$0.00	\$60.82
4	80	\$34.06	\$10.75	\$20.27	\$0.00	\$65.08
5	90	\$38.31	\$10.75	\$20.27	\$0.00	\$69.33

Effective Date - 02/01/2021

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$21.54	\$10.75	\$20.27	\$0.00	\$52.56
2	60	\$25.85	\$10.75	\$20.27	\$0.00	\$56.87
3	70	\$30.16	\$10.75	\$20.27	\$0.00	\$61.18
4	80	\$34.46	\$10.75	\$20.27	\$0.00	\$65.48
5	90	\$38.77	\$10.75	\$20.27	\$0.00	\$69.79

Notes:

Apprentice to Journeyworker Ratio:1:3

MARBLE MASONS, TILELAYERS & TERRAZZO MECH BRICKLAYERS LOCAL 3 - MARBLE & TILE	08/01/2020	\$55.77	\$10.75	\$22.08	\$0.00	\$88.60
	02/01/2021	\$56.41	\$10.75	\$22.08	\$0.00	\$89.24
	08/01/2021	\$57.81	\$10.75	\$22.24	\$0.00	\$90.80
	02/01/2022	\$58.38	\$10.75	\$22.24	\$0.00	\$91.37

Issue Date: 10/20/2020

Wage Request Number: 20201020-024

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Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

**Apprentice - MARBLE-TILE-TERRAZZO MECHANIC - Local 3 Marble & Tile**

Effective Date - 08/01/2020

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$27.89	\$10.75	\$22.08	\$0.00	\$60.72
2	60	\$33.46	\$10.75	\$22.08	\$0.00	\$66.29
3	70	\$39.04	\$10.75	\$22.08	\$0.00	\$71.87
4	80	\$44.62	\$10.75	\$22.08	\$0.00	\$77.45
5	90	\$50.19	\$10.75	\$22.08	\$0.00	\$83.02

Effective Date - 02/01/2021

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$28.21	\$10.75	\$22.08	\$0.00	\$61.04
2	60	\$33.85	\$10.75	\$22.08	\$0.00	\$66.68
3	70	\$39.49	\$10.75	\$22.08	\$0.00	\$72.32
4	80	\$45.13	\$10.75	\$22.08	\$0.00	\$77.96
5	90	\$50.77	\$10.75	\$22.08	\$0.00	\$83.60

Notes:

Apprentice to Journeyworker Ratio:1:5

MECH. SWEEPER OPERATOR (ON CONST. SITES) OPERATING ENGINEERS LOCAL 4	06/01/2020	\$48.81	\$13.00	\$15.70	\$0.00	\$77.51
	12/01/2020	\$49.95	\$13.00	\$15.70	\$0.00	\$78.65
	06/01/2021	\$51.04	\$13.00	\$15.70	\$0.00	\$79.74
	12/01/2021	\$52.18	\$13.00	\$15.70	\$0.00	\$80.88
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
MECHANICS MAINTENANCE OPERATING ENGINEERS LOCAL 4	06/01/2020	\$48.81	\$13.00	\$15.70	\$0.00	\$77.51
	12/01/2020	\$49.95	\$13.00	\$15.70	\$0.00	\$78.65
	06/01/2021	\$51.04	\$13.00	\$15.70	\$0.00	\$79.74
	12/01/2021	\$52.18	\$13.00	\$15.70	\$0.00	\$80.88
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
MILLWRIGHT (Zone 1) MILLWRIGHTS LOCAL 1121 - Zone 1	04/01/2019	\$42.22	\$9.90	\$18.50	\$0.00	\$70.62

Issue Date: 10/20/2020

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Classification Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

**Apprentice - MILLWRIGHT - Local 1121 Zone 1**

Effective Date - 04/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$23.22	\$9.90	\$5.31	\$0.00	\$38.43
2	65	\$27.44	\$9.90	\$15.13	\$0.00	\$52.47
3	75	\$31.67	\$9.90	\$16.10	\$0.00	\$57.67
4	85	\$35.89	\$9.90	\$17.06	\$0.00	\$62.85

Notes:

Steps are 2,000 hours

Apprentice to Journeyworker Ratio:1:5

MORTAR MIXER LABORERS - ZONE 1	06/01/2020	\$39.40	\$8.60	\$17.09	\$0.00	\$65.09
	12/01/2020	\$40.38	\$8.60	\$17.09	\$0.00	\$66.07
	06/01/2021	\$41.40	\$8.60	\$17.09	\$0.00	\$67.09
	12/01/2021	\$42.41	\$8.60	\$17.09	\$0.00	\$68.10
For apprentice rates see "Apprentice- LABORER"						
OILER (OTHER THAN TRUCK CRANES,GRADALLS) OPERATING ENGINEERS LOCAL 4	06/01/2020	\$23.13	\$13.00	\$15.70	\$0.00	\$51.83
	12/01/2020	\$23.70	\$13.00	\$15.70	\$0.00	\$52.40
	06/01/2021	\$24.25	\$13.00	\$15.70	\$0.00	\$52.95
	12/01/2021	\$24.83	\$13.00	\$15.70	\$0.00	\$53.53
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
OILER (TRUCK CRANES, GRADALLS) OPERATING ENGINEERS LOCAL 4	06/01/2020	\$27.79	\$13.00	\$15.70	\$0.00	\$56.49
	12/01/2020	\$28.47	\$13.00	\$15.70	\$0.00	\$57.17
	06/01/2021	\$29.11	\$13.00	\$15.70	\$0.00	\$57.81
	12/01/2021	\$29.79	\$13.00	\$15.70	\$0.00	\$58.49
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
OTHER POWER DRIVEN EQUIPMENT - CLASS II OPERATING ENGINEERS LOCAL 4	06/01/2020	\$48.81	\$13.00	\$15.70	\$0.00	\$77.51
	12/01/2020	\$49.95	\$13.00	\$15.70	\$0.00	\$78.65
	06/01/2021	\$51.04	\$13.00	\$15.70	\$0.00	\$79.74
	12/01/2021	\$52.18	\$13.00	\$15.70	\$0.00	\$80.88
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
PAINTER (BRIDGES/TANKS) PAINTERS LOCAL 35 - ZONE 2	07/01/2020	\$51.51	\$8.25	\$22.40	\$0.00	\$82.16
	01/01/2021	\$52.06	\$8.25	\$22.75	\$0.00	\$83.06

Issue Date: 10/20/2020

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Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - PAINTER Local 35 - BRIDGES/TANKS

Effective Date - 07/01/2020

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$25.76	\$8.25	\$0.00	\$0.00	\$34.01
2	55	\$28.33	\$8.25	\$6.05	\$0.00	\$42.63
3	60	\$30.91	\$8.25	\$6.60	\$0.00	\$45.76
4	65	\$33.48	\$8.25	\$7.15	\$0.00	\$48.88
5	70	\$36.06	\$8.25	\$19.10	\$0.00	\$63.41
6	75	\$38.63	\$8.25	\$19.65	\$0.00	\$66.53
7	80	\$41.21	\$8.25	\$20.20	\$0.00	\$69.66
8	90	\$46.36	\$8.25	\$21.30	\$0.00	\$75.91

Effective Date - 01/01/2021

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$26.03	\$8.25	\$0.00	\$0.00	\$34.28
2	55	\$28.63	\$8.25	\$6.16	\$0.00	\$43.04
3	60	\$31.24	\$8.25	\$6.72	\$0.00	\$46.21
4	65	\$33.84	\$8.25	\$7.28	\$0.00	\$49.37
5	70	\$36.44	\$8.25	\$19.39	\$0.00	\$64.08
6	75	\$39.05	\$8.25	\$19.95	\$0.00	\$67.25
7	80	\$41.65	\$8.25	\$20.51	\$0.00	\$70.41
8	90	\$46.85	\$8.25	\$21.63	\$0.00	\$76.73

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio: 1:1

PAINTER (SPRAY OR SANDBLAST, NEW) *	07/01/2020	\$41.21	\$8.25	\$22.40	\$0.00	\$71.86
* If 30% or more of surfaces to be painted are new construction, NEW paint rate shall be used. PAINTERS LOCAL 35 - ZONE 2	01/01/2021	\$42.96	\$8.25	\$22.75	\$0.00	\$73.96

Issue Date: 10/20/2020

Wage Request Number: 20201020-024

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Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

**Apprentice - PAINTER Local 35 Zone 2 - Spray/Sandblast - New**

Effective Date - 07/01/2020

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$20.61	\$8.25	\$0.00	\$0.00	\$28.86
2	55	\$22.67	\$8.25	\$6.05	\$0.00	\$36.97
3	60	\$24.73	\$8.25	\$6.60	\$0.00	\$39.58
4	65	\$26.79	\$8.25	\$7.15	\$0.00	\$42.19
5	70	\$28.85	\$8.25	\$19.10	\$0.00	\$56.20
6	75	\$30.91	\$8.25	\$19.65	\$0.00	\$58.81
7	80	\$32.97	\$8.25	\$20.20	\$0.00	\$61.42
8	90	\$37.09	\$8.25	\$21.30	\$0.00	\$66.64

Effective Date - 01/01/2021

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$21.48	\$8.25	\$0.00	\$0.00	\$29.73
2	55	\$23.63	\$8.25	\$6.16	\$0.00	\$38.04
3	60	\$25.78	\$8.25	\$6.72	\$0.00	\$40.75
4	65	\$27.92	\$8.25	\$7.28	\$0.00	\$43.45
5	70	\$30.07	\$8.25	\$19.39	\$0.00	\$57.71
6	75	\$32.22	\$8.25	\$19.95	\$0.00	\$60.42
7	80	\$34.37	\$8.25	\$20.51	\$0.00	\$63.13
8	90	\$38.66	\$8.25	\$21.63	\$0.00	\$68.54

Notes:  
Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER (SPRAY OR SANDBLAST, REPAINT)	07/01/2020	\$40.47	\$8.25	\$22.40	\$0.00	\$71.12
PAINTERS LOCAL 35 - ZONE 2	01/01/2021	\$41.02	\$8.25	\$22.75	\$0.00	\$72.02

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - PAINTER Local 35 Zone 2 - Spray/Sandblast - Repaint

Effective Date - 07/01/2020

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$20.24	\$8.25	\$0.00	\$0.00	\$28.49
2	55	\$22.26	\$8.25	\$6.05	\$0.00	\$36.56
3	60	\$24.28	\$8.25	\$6.60	\$0.00	\$39.13
4	65	\$26.31	\$8.25	\$7.15	\$0.00	\$41.71
5	70	\$28.33	\$8.25	\$19.10	\$0.00	\$55.68
6	75	\$30.35	\$8.25	\$19.65	\$0.00	\$58.25
7	80	\$32.38	\$8.25	\$20.20	\$0.00	\$60.83
8	90	\$36.42	\$8.25	\$21.30	\$0.00	\$65.97

Effective Date - 01/01/2021

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$20.51	\$8.25	\$0.00	\$0.00	\$28.76
2	55	\$22.56	\$8.25	\$6.16	\$0.00	\$36.97
3	60	\$24.61	\$8.25	\$6.72	\$0.00	\$39.58
4	65	\$26.66	\$8.25	\$7.28	\$0.00	\$42.19
5	70	\$28.71	\$8.25	\$19.39	\$0.00	\$56.35
6	75	\$30.77	\$8.25	\$19.95	\$0.00	\$58.97
7	80	\$32.82	\$8.25	\$20.51	\$0.00	\$61.58
8	90	\$36.92	\$8.25	\$21.63	\$0.00	\$66.80

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER (TRAFFIC MARKINGS) LABORERS - ZONE 1	06/01/2020	\$39.15	\$8.60	\$17.09	\$0.00	\$64.84
	12/01/2020	\$40.13	\$8.60	\$17.09	\$0.00	\$65.82
	06/01/2021	\$41.15	\$8.60	\$17.09	\$0.00	\$66.84
	12/01/2021	\$42.16	\$8.60	\$17.09	\$0.00	\$67.85
For Apprentice rates see "Apprentice-LABORER"						
PAINTER / TAPER (BRUSH, NEW) *	07/01/2020	\$41.01	\$8.25	\$22.40	\$0.00	\$71.66
* If 30% or more of surfaces to be painted are new construction, NEW paint rate shall be used. PAINTERS LOCAL 35 - ZONE 2	01/01/2021	\$41.56	\$8.25	\$22.75	\$0.00	\$72.56

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Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - PAINTER - Local 35 Zone 2 - BRUSH NEW

Effective Date - 07/01/2020

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$20.51	\$8.25	\$0.00	\$0.00	\$28.76
2	55	\$22.56	\$8.25	\$6.05	\$0.00	\$36.86
3	60	\$24.61	\$8.25	\$6.60	\$0.00	\$39.46
4	65	\$26.66	\$8.25	\$7.15	\$0.00	\$42.06
5	70	\$28.71	\$8.25	\$19.10	\$0.00	\$56.06
6	75	\$30.76	\$8.25	\$19.65	\$0.00	\$58.66
7	80	\$32.81	\$8.25	\$20.20	\$0.00	\$61.26
8	90	\$36.91	\$8.25	\$21.30	\$0.00	\$66.46

Effective Date - 01/01/2021

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$20.78	\$8.25	\$0.00	\$0.00	\$29.03
2	55	\$22.86	\$8.25	\$6.16	\$0.00	\$37.27
3	60	\$24.94	\$8.25	\$6.72	\$0.00	\$39.91
4	65	\$27.01	\$8.25	\$7.28	\$0.00	\$42.54
5	70	\$29.09	\$8.25	\$19.39	\$0.00	\$56.73
6	75	\$31.17	\$8.25	\$19.95	\$0.00	\$59.37
7	80	\$33.25	\$8.25	\$20.51	\$0.00	\$62.01
8	90	\$37.40	\$8.25	\$21.63	\$0.00	\$67.28

Notes:  
Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER / TAPER (BRUSH, REPAINT)	07/01/2020	\$39.07	\$8.25	\$22.40	\$0.00	\$69.72
PAINTERS LOCAL 35 - ZONE 2	01/01/2021	\$39.62	\$8.25	\$22.75	\$0.00	\$70.62

Issue Date: 10/20/2020

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Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - PAINTER Local 35 Zone 2 - BRUSH REPAINT

Effective Date - 07/01/2020

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$19.54	\$8.25	\$0.00	\$0.00	\$27.79
2	55	\$21.49	\$8.25	\$6.05	\$0.00	\$35.79
3	60	\$23.44	\$8.25	\$6.60	\$0.00	\$38.29
4	65	\$25.40	\$8.25	\$7.15	\$0.00	\$40.80
5	70	\$27.35	\$8.25	\$19.10	\$0.00	\$54.70
6	75	\$29.30	\$8.25	\$19.65	\$0.00	\$57.20
7	80	\$31.26	\$8.25	\$20.20	\$0.00	\$59.71
8	90	\$35.16	\$8.25	\$21.30	\$0.00	\$64.71

Effective Date - 01/01/2021

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$19.81	\$8.25	\$0.00	\$0.00	\$28.06
2	55	\$21.79	\$8.25	\$6.16	\$0.00	\$36.20
3	60	\$23.77	\$8.25	\$6.72	\$0.00	\$38.74
4	65	\$25.75	\$8.25	\$7.28	\$0.00	\$41.28
5	70	\$27.73	\$8.25	\$19.39	\$0.00	\$55.37
6	75	\$29.72	\$8.25	\$19.95	\$0.00	\$57.92
7	80	\$31.70	\$8.25	\$20.51	\$0.00	\$60.46
8	90	\$35.66	\$8.25	\$21.63	\$0.00	\$65.54

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PANEL & PICKUP TRUCKS DRIVER TEAMSTERS JOINT COUNCIL NO. 10 ZONE A	08/01/2020	\$36.08	\$12.91	\$13.72	\$0.00	\$62.71
	12/01/2020	\$36.08	\$12.91	\$14.82	\$0.00	\$63.81
	06/01/2021	\$36.88	\$12.91	\$14.82	\$0.00	\$64.61
	08/01/2021	\$36.88	\$13.41	\$14.82	\$0.00	\$65.11
	12/01/2021	\$36.88	\$13.41	\$16.01	\$0.00	\$66.30
PIER AND DOCK CONSTRUCTOR (UNDERPINNING AND DECK) PILE DRIVER LOCAL 56 (ZONE 1) For apprentice rates see "Apprentice- PILE DRIVER"	08/01/2020	\$49.07	\$9.40	\$23.12	\$0.00	\$81.59
PILE DRIVER PILE DRIVER LOCAL 56 (ZONE 1)	08/01/2020	\$49.07	\$9.40	\$23.12	\$0.00	\$81.59

Issue Date: 10/20/2020

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Classification Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - PILE DRIVER - Local 56 Zone 1

Effective Date - 08/01/2020

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$24.54	\$9.40	\$23.12	\$0.00	\$57.06
2	60	\$29.44	\$9.40	\$23.12	\$0.00	\$61.96
3	70	\$34.35	\$9.40	\$23.12	\$0.00	\$66.87
4	75	\$36.80	\$9.40	\$23.12	\$0.00	\$69.32
5	80	\$39.26	\$9.40	\$23.12	\$0.00	\$71.78
6	80	\$39.26	\$9.40	\$23.12	\$0.00	\$71.78
7	90	\$44.16	\$9.40	\$23.12	\$0.00	\$76.68
8	90	\$44.16	\$9.40	\$23.12	\$0.00	\$76.68

Notes:

% Indentured After 10/1/17; 45/45/55/55/70/70/80/80  
Step 1&2 \$34.01/ 3&4 \$41.46/ 5&6 \$62.80/ 7&8 \$69.25

Apprentice to Journeyworker Ratio:1:5

PIPEFITTER & STEAMFITTER	09/01/2020	\$56.44	\$11.70	\$20.24	\$0.00	\$88.38
PIPEFITTERS LOCAL 537	03/01/2021	\$57.94	\$11.70	\$20.24	\$0.00	\$89.88

Apprentice - PIPEFITTER - Local 537

Effective Date - 09/01/2020

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$22.58	\$11.70	\$8.25	\$0.00	\$42.53
2	45	\$25.40	\$11.70	\$20.24	\$0.00	\$57.34
3	60	\$33.86	\$11.70	\$20.24	\$0.00	\$65.80
4	70	\$39.51	\$11.70	\$20.24	\$0.00	\$71.45
5	80	\$45.15	\$11.70	\$20.24	\$0.00	\$77.09

Effective Date - 03/01/2021

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$23.18	\$11.70	\$8.25	\$0.00	\$43.13
2	45	\$26.07	\$11.70	\$20.24	\$0.00	\$58.01
3	60	\$34.76	\$11.70	\$20.24	\$0.00	\$66.70
4	70	\$40.56	\$11.70	\$20.24	\$0.00	\$72.50
5	80	\$46.35	\$11.70	\$20.24	\$0.00	\$78.29

Notes:

\*\* 1:3; 3:15; 1:10 thereafter / Steps are 1 yr.  
Refrig/AC Mechanic \*\*1:1;1:2;2:4;3:6;4:8;5:10;6:12;7:14;8:17;9:20;10:23(Max)

Apprentice to Journeyworker Ratio:\*\*

PIPELAYER	06/01/2020	\$39.40	\$8.60	\$17.09	\$0.00	\$65.09
LABORERS - ZONE 1	12/01/2020	\$40.38	\$8.60	\$17.09	\$0.00	\$66.07
	06/01/2021	\$41.40	\$8.60	\$17.09	\$0.00	\$67.09
	12/01/2021	\$42.41	\$8.60	\$17.09	\$0.00	\$68.10

For apprentice rates see \*Apprentice- LABORER\*

Issue Date: 10/20/2020

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Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
PLUMBERS & GASFITTERS	09/01/2020	\$58.69	\$13.57	\$17.26	\$0.00	\$89.52
PLUMBERS & GASFITTERS LOCAL 12	03/01/2021	\$60.19	\$13.57	\$17.26	\$0.00	\$91.02

**Apprentice - PLUMBER/GASFITTER - Local 12**

Effective Date - 09/01/2020

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	35	\$20.54	\$13.57	\$6.24	\$0.00	\$40.35
2	40	\$23.48	\$13.57	\$7.08	\$0.00	\$44.13
3	55	\$32.28	\$13.57	\$9.63	\$0.00	\$55.48
4	65	\$38.15	\$13.57	\$11.33	\$0.00	\$63.05
5	75	\$44.02	\$13.57	\$13.03	\$0.00	\$70.62

Effective Date - 03/01/2021

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	35	\$21.07	\$13.57	\$6.24	\$0.00	\$40.88
2	40	\$24.08	\$13.57	\$7.08	\$0.00	\$44.73
3	55	\$33.10	\$13.57	\$9.63	\$0.00	\$56.30
4	65	\$39.12	\$13.57	\$11.33	\$0.00	\$64.02
5	75	\$45.14	\$13.57	\$13.03	\$0.00	\$71.74

**Notes:**

\*\* 1;2; 2;6; 3;10; 4;14; 5;19/Steps are 1 yr  
Step4 with lic\$66.82, Step5 with lic\$74.39

Apprentice to Journeyworker Ratio:\*\*

PNEUMATIC CONTROLS (TEMP.)	09/01/2020	\$56.44	\$11.70	\$20.24	\$0.00	\$88.38
PIPEFITTERS LOCAL 537	03/01/2021	\$57.94	\$11.70	\$20.24	\$0.00	\$89.88
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"						
PNEUMATIC DRILL/TOOL OPERATOR	06/01/2020	\$39.40	\$8.60	\$17.09	\$0.00	\$65.09
LABORERS - ZONE 1	12/01/2020	\$40.38	\$8.60	\$17.09	\$0.00	\$66.07
	06/01/2021	\$41.40	\$8.60	\$17.09	\$0.00	\$67.09
	12/01/2021	\$42.41	\$8.60	\$17.09	\$0.00	\$68.10
For apprentice rates see "Apprentice- LABORER"						
POWDERMAN & BLASTER	06/01/2020	\$40.15	\$8.60	\$17.09	\$0.00	\$65.84
LABORERS - ZONE 1	12/01/2020	\$41.13	\$8.60	\$17.09	\$0.00	\$66.82
	06/01/2021	\$42.15	\$8.60	\$17.09	\$0.00	\$67.84
	12/01/2021	\$43.16	\$8.60	\$17.09	\$0.00	\$68.85
For apprentice rates see "Apprentice- LABORER"						
POWER SHOVEL/DERRICK/TRENCHING MACHINE	06/01/2020	\$49.33	\$13.00	\$15.70	\$0.00	\$78.03
OPERATING ENGINEERS LOCAL 4	12/01/2020	\$50.48	\$13.00	\$15.70	\$0.00	\$79.18
	06/01/2021	\$51.58	\$13.00	\$15.70	\$0.00	\$80.28
	12/01/2021	\$52.73	\$13.00	\$15.70	\$0.00	\$81.43
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
PUMP OPERATOR (CONCRETE)	06/01/2020	\$49.33	\$13.00	\$15.70	\$0.00	\$78.03
OPERATING ENGINEERS LOCAL 4	12/01/2020	\$50.48	\$13.00	\$15.70	\$0.00	\$79.18
	06/01/2021	\$51.58	\$13.00	\$15.70	\$0.00	\$80.28
	12/01/2021	\$52.73	\$13.00	\$15.70	\$0.00	\$81.43
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						

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Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
PUMP OPERATOR (DEWATERING, OTHER) <i>OPERATING ENGINEERS LOCAL 4</i>	06/01/2020	\$32.72	\$13.00	\$15.70	\$0.00	\$61.42
	12/01/2020	\$33.50	\$13.00	\$15.70	\$0.00	\$62.20
	06/01/2021	\$34.25	\$13.00	\$15.70	\$0.00	\$62.95
	12/01/2021	\$35.04	\$13.00	\$15.70	\$0.00	\$63.74
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
READY-MIX CONCRETE DRIVER <i>TEAMSTERS 170 - Rosenfeld (Walpole)</i>	01/01/2020	\$23.50	\$11.01	\$8.00	\$0.00	\$42.51
	01/01/2021	\$23.50	\$11.51	\$8.00	\$0.00	\$43.01
RECLAIMERS <i>OPERATING ENGINEERS LOCAL 4</i>	06/01/2020	\$48.81	\$13.00	\$15.70	\$0.00	\$77.51
	12/01/2020	\$49.95	\$13.00	\$15.70	\$0.00	\$78.65
	06/01/2021	\$51.04	\$13.00	\$15.70	\$0.00	\$79.74
	12/01/2021	\$52.18	\$13.00	\$15.70	\$0.00	\$80.88
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
RIDE-ON MOTORIZED BUGGY OPERATOR <i>LABORERS - ZONE 1</i>	06/01/2020	\$39.40	\$8.60	\$17.09	\$0.00	\$65.09
	12/01/2020	\$40.38	\$8.60	\$17.09	\$0.00	\$66.07
	06/01/2021	\$41.40	\$8.60	\$17.09	\$0.00	\$67.09
	12/01/2021	\$42.41	\$8.60	\$17.09	\$0.00	\$68.10
For apprentice rates see "Apprentice- LABORER"						
ROLLER/SPREADER/MULCHING MACHINE <i>OPERATING ENGINEERS LOCAL 4</i>	06/01/2020	\$48.81	\$13.00	\$15.70	\$0.00	\$77.51
	12/01/2020	\$49.95	\$13.00	\$15.70	\$0.00	\$78.65
	06/01/2021	\$51.04	\$13.00	\$15.70	\$0.00	\$79.74
	12/01/2021	\$52.18	\$13.00	\$15.70	\$0.00	\$80.88
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
ROOFER (Inc.Roofing Waterproofing &Roofing Damproofg) <i>ROOFERS LOCAL 33</i>	08/01/2020	\$46.60	\$11.75	\$16.15	\$0.00	\$74.50
	02/01/2021	\$48.03	\$11.75	\$16.15	\$0.00	\$75.93
	08/01/2021	\$49.46	\$11.75	\$16.15	\$0.00	\$77.36
	02/01/2022	\$50.89	\$11.75	\$16.15	\$0.00	\$78.79



Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

**Apprentice - ROOFER - Local 33**

Effective Date - 08/01/2020

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$23.30	\$11.75	\$3.81	\$0.00	\$38.86
2	60	\$27.96	\$11.75	\$16.15	\$0.00	\$55.86
3	65	\$30.29	\$11.75	\$16.15	\$0.00	\$58.19
4	75	\$34.95	\$11.75	\$16.15	\$0.00	\$62.85
5	85	\$39.61	\$11.75	\$16.15	\$0.00	\$67.51

Effective Date - 02/01/2021

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$24.02	\$11.75	\$3.81	\$0.00	\$39.58
2	60	\$28.82	\$11.75	\$16.15	\$0.00	\$56.72
3	65	\$31.22	\$11.75	\$16.15	\$0.00	\$59.12
4	75	\$36.02	\$11.75	\$16.15	\$0.00	\$63.92
5	85	\$40.83	\$11.75	\$16.15	\$0.00	\$68.73

Notes: \*\* 1:5, 2:6-10, the 1:10; Reroofing: 1:4, then 1:1  
 Step 1 is 2000 hrs.; Steps 2-5 are 1000 hrs.  
 (Hot Pitch Mechanics' receive \$1.00 hr. above ROOFER)

Apprentice to Journeyworker Ratio:\*\*

ROOFER SLATE / TILE / PRECAST CONCRETE	08/01/2020	\$46.85	\$11.75	\$16.15	\$0.00	\$74.75
ROOFERS LOCAL 33	02/01/2021	\$48.28	\$11.75	\$16.15	\$0.00	\$76.18
	08/01/2021	\$49.71	\$11.75	\$16.15	\$0.00	\$77.61
	02/01/2022	\$51.14	\$11.75	\$16.15	\$0.00	\$79.04
For apprentice rates see "Apprentice- ROOFER"						
SHEETMETAL WORKER	08/01/2020	\$50.67	\$13.50	\$24.12	\$2.65	\$90.94
SHEETMETAL WORKERS LOCAL 17 - A	02/01/2021	\$52.32	\$13.50	\$24.12	\$2.70	\$92.64
	08/01/2021	\$54.07	\$13.50	\$24.12	\$2.75	\$94.44
	02/01/2022	\$55.82	\$13.50	\$24.12	\$2.80	\$96.24

Issue Date: 10/20/2020

Wage Request Number: 20201020-024

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Classification Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - SHEET METAL WORKER - Local 17-A

Effective Date - 08/01/2020

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	42	\$21.28	\$13.50	\$5.89	\$0.00	\$40.67
2	42	\$21.28	\$13.50	\$5.89	\$0.00	\$40.67
3	47	\$23.81	\$13.50	\$11.13	\$1.45	\$49.89
4	47	\$23.81	\$13.50	\$11.13	\$1.45	\$49.89
5	52	\$26.35	\$13.50	\$12.08	\$1.56	\$53.49
6	52	\$26.35	\$13.50	\$12.33	\$1.57	\$53.75
7	60	\$30.40	\$13.50	\$13.70	\$1.73	\$59.33
8	65	\$32.94	\$13.50	\$15.15	\$1.83	\$63.42
9	75	\$38.00	\$13.50	\$16.56	\$2.04	\$70.10
10	85	\$43.07	\$13.50	\$17.96	\$2.24	\$76.77

Effective Date - 02/01/2021

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	42	\$21.97	\$13.50	\$5.89	\$0.00	\$41.36
2	42	\$21.97	\$13.50	\$5.89	\$0.00	\$41.36
3	47	\$24.59	\$13.50	\$11.13	\$1.48	\$50.70
4	47	\$24.59	\$13.50	\$11.13	\$1.48	\$50.70
5	52	\$27.21	\$13.50	\$12.08	\$1.58	\$54.37
6	52	\$27.21	\$13.50	\$12.33	\$1.59	\$54.63
7	60	\$31.39	\$13.50	\$13.70	\$1.76	\$60.35
8	65	\$34.01	\$13.50	\$15.15	\$1.88	\$64.54
9	75	\$39.24	\$13.50	\$16.56	\$2.08	\$71.38
10	85	\$44.47	\$13.50	\$17.96	\$2.28	\$78.21

Notes:  
Steps are 6 mos.

Apprentice to Journeyworker Ratio:1:4

SPECIALIZED EARTH MOVING EQUIP < 35 TONS TEAMSTERS JOINT COUNCIL NO. 10 ZONE A	08/01/2020	\$36.54	\$12.91	\$13.72	\$0.00	\$63.17
	12/01/2020	\$36.54	\$12.91	\$14.82	\$0.00	\$64.27
	06/01/2021	\$37.34	\$12.91	\$14.82	\$0.00	\$65.07
	08/01/2021	\$37.34	\$13.41	\$14.82	\$0.00	\$65.57
	12/01/2021	\$37.34	\$13.41	\$16.01	\$0.00	\$66.76
SPECIALIZED EARTH MOVING EQUIP > 35 TONS TEAMSTERS JOINT COUNCIL NO. 10 ZONE A	08/01/2020	\$36.83	\$12.91	\$13.72	\$0.00	\$63.46
	12/01/2020	\$36.83	\$12.91	\$14.82	\$0.00	\$64.56
	06/01/2021	\$37.63	\$12.91	\$14.82	\$0.00	\$65.36
	08/01/2021	\$37.63	\$13.41	\$14.82	\$0.00	\$65.86
	12/01/2021	\$37.63	\$13.41	\$16.01	\$0.00	\$67.05
SPRINKLER FITTER SPRINKLER FITTERS LOCAL 530 - (Section A) Zone 1	10/01/2020	\$61.97	\$9.68	\$20.55	\$0.00	\$92.20
	03/01/2021	\$63.47	\$9.68	\$20.55	\$0.00	\$93.70

Issue Date: 10/20/2020

Wage Request Number: 20201020-024

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Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - *SPRINKLER FITTER - Local 550 (Section A) Zone 1*

Effective Date - 10/01/2020

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	35	\$21.69	\$9.68	\$11.61	\$0.00	\$42.98
2	40	\$24.79	\$9.68	\$12.30	\$0.00	\$46.77
3	45	\$27.89	\$9.68	\$12.99	\$0.00	\$50.56
4	50	\$30.99	\$9.68	\$13.73	\$0.00	\$54.40
5	55	\$34.08	\$9.68	\$14.36	\$0.00	\$58.12
6	60	\$37.18	\$9.68	\$15.05	\$0.00	\$61.91
7	65	\$40.28	\$9.68	\$15.74	\$0.00	\$65.70
8	70	\$43.38	\$9.68	\$16.43	\$0.00	\$69.49
9	75	\$46.48	\$9.68	\$17.11	\$0.00	\$73.27
10	80	\$49.58	\$9.68	\$17.80	\$0.00	\$77.06

Effective Date - 03/01/2021

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	35	\$22.21	\$9.68	\$11.61	\$0.00	\$43.50
2	40	\$25.39	\$9.68	\$12.30	\$0.00	\$47.37
3	45	\$28.56	\$9.68	\$12.99	\$0.00	\$51.23
4	50	\$31.74	\$9.68	\$13.73	\$0.00	\$55.15
5	55	\$34.91	\$9.68	\$14.36	\$0.00	\$58.95
6	60	\$38.08	\$9.68	\$15.05	\$0.00	\$62.81
7	65	\$41.26	\$9.68	\$15.74	\$0.00	\$66.68
8	70	\$44.43	\$9.68	\$16.43	\$0.00	\$70.54
9	75	\$47.60	\$9.68	\$17.11	\$0.00	\$74.39
10	80	\$50.78	\$9.68	\$17.80	\$0.00	\$78.26

Notes: Apprentice entered prior 9/30/10:  
40/45/50/55/60/65/70/75/80/85  
Steps are 850 hours  
Apprentice to Journeyworker Ratio:1:3

STEAM BOILER OPERATOR <i>OPERATING ENGINEERS LOCAL 4</i>	06/01/2020	\$48.81	\$13.00	\$15.70	\$0.00	\$77.51
	12/01/2020	\$49.95	\$13.00	\$15.70	\$0.00	\$78.65
	06/01/2021	\$51.04	\$13.00	\$15.70	\$0.00	\$79.74
	12/01/2021	\$52.18	\$13.00	\$15.70	\$0.00	\$80.88
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
TAMPERS, SELF-PROPELLED OR TRACTOR DRAWN <i>OPERATING ENGINEERS LOCAL 4</i>	06/01/2020	\$48.81	\$13.00	\$15.70	\$0.00	\$77.51
	12/01/2020	\$49.95	\$13.00	\$15.70	\$0.00	\$78.65
	06/01/2021	\$51.04	\$13.00	\$15.70	\$0.00	\$79.74
	12/01/2021	\$52.18	\$13.00	\$15.70	\$0.00	\$80.88
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
TELECOMMUNICATION TECHNICIAN <i>ELECTRICIANS LOCAL 103</i>	09/01/2020	\$40.84	\$13.00	\$17.53	\$0.00	\$71.37
	03/01/2021	\$42.11	\$13.00	\$17.88	\$0.00	\$72.99
	09/01/2021	\$43.77	\$13.00	\$18.00	\$0.00	\$74.77
	03/01/2022	\$45.27	\$13.00	\$18.12	\$0.00	\$76.39
	09/01/2022	\$46.99	\$13.00	\$18.24	\$0.00	\$78.23
	03/01/2023	\$48.54	\$13.00	\$18.37	\$0.00	\$79.91

**Apprentice - TELECOMMUNICATION TECHNICIAN - Local 103**

Effective Date - 09/01/2020

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	45	\$18.38	\$13.00	\$0.55	\$0.00	\$31.93
2	45	\$18.38	\$13.00	\$0.55	\$0.00	\$31.93
3	50	\$20.42	\$13.00	\$14.20	\$0.00	\$47.62
4	50	\$20.42	\$13.00	\$14.20	\$0.00	\$47.62
5	55	\$22.46	\$13.00	\$14.53	\$0.00	\$49.99
6	60	\$24.50	\$13.00	\$14.87	\$0.00	\$52.37
7	65	\$26.55	\$13.00	\$15.20	\$0.00	\$54.75
8	70	\$28.59	\$13.00	\$15.53	\$0.00	\$57.12
9	75	\$30.63	\$13.00	\$15.87	\$0.00	\$59.50
10	80	\$32.67	\$13.00	\$16.20	\$0.00	\$61.87

Effective Date - 03/01/2021

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	45	\$18.95	\$13.00	\$0.57	\$0.00	\$32.52
2	45	\$18.95	\$13.00	\$0.57	\$0.00	\$32.52
3	50	\$21.06	\$13.00	\$14.47	\$0.00	\$48.53
4	50	\$21.06	\$13.00	\$14.47	\$0.00	\$48.53
5	55	\$23.16	\$13.00	\$14.80	\$0.00	\$50.96
6	60	\$25.27	\$13.00	\$15.14	\$0.00	\$53.41
7	65	\$27.37	\$13.00	\$15.47	\$0.00	\$55.84
8	70	\$29.48	\$13.00	\$15.80	\$0.00	\$58.28
9	75	\$31.58	\$13.00	\$16.15	\$0.00	\$60.73
10	80	\$33.69	\$13.00	\$16.48	\$0.00	\$63.17

Notes:

Apprentice to Journeyworker Ratio:1:1

TERRAZZO FINISHERS <i>BRICKLAYERS LOCAL 3 - MARBLE &amp; TILE</i>	08/01/2020	\$54.69	\$10.75	\$22.09	\$0.00	\$87.53
	02/01/2021	\$55.33	\$10.75	\$22.09	\$0.00	\$88.17
	08/01/2021	\$56.73	\$10.75	\$22.25	\$0.00	\$89.73
	02/01/2022	\$57.32	\$10.75	\$22.25	\$0.00	\$90.32

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Ra

Apprentice - TERRAZZO FINISHER - Local 3 Marble & Tile

Effective Date - 08/01/2020

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50					
2	60	\$27.35	\$10.75	\$22.09	\$0.00	\$60.19
3	70	\$32.81	\$10.75	\$22.09	\$0.00	\$65.65
4	80	\$38.28	\$10.75	\$22.09	\$0.00	\$71.12
5	90	\$43.75	\$10.75	\$22.09	\$0.00	\$76.59
		\$49.22	\$10.75	\$22.09	\$0.00	\$82.06

Effective Date - 02/01/2021

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50					
2	60	\$27.67	\$10.75	\$22.09	\$0.00	\$60.51
3	70	\$33.20	\$10.75	\$22.09	\$0.00	\$66.04
4	80	\$38.73	\$10.75	\$22.09	\$0.00	\$71.57
5	90	\$44.26	\$10.75	\$22.09	\$0.00	\$77.10
		\$49.80	\$10.75	\$22.09	\$0.00	\$82.64

Notes:

Apprentice to Journeyworker Ratio:1:3

TEST BORING DRILLER  
LABORERS - FOUNDATION AND MARINE

06/01/2020	\$40.55	\$8.60	\$17.24	\$0.00	\$66.39
12/01/2020	\$41.53	\$8.60	\$17.24	\$0.00	\$67.37
06/01/2021	\$42.55	\$8.60	\$17.24	\$0.00	\$68.39
12/01/2021	\$43.56	\$8.60	\$17.24	\$0.00	\$69.40

For apprentice rates see "Apprentice- LABORER"

TEST BORING DRILLER HELPER  
LABORERS - FOUNDATION AND MARINE

06/01/2020	\$39.27	\$8.60	\$17.24	\$0.00	\$65.11
12/01/2020	\$40.25	\$8.60	\$17.24	\$0.00	\$66.09
06/01/2021	\$41.27	\$8.60	\$17.24	\$0.00	\$67.11
12/01/2021	\$42.28	\$8.60	\$17.24	\$0.00	\$68.12

For apprentice rates see "Apprentice- LABORER"

TEST BORING LABORER  
LABORERS - FOUNDATION AND MARINE

06/01/2020	\$39.15	\$8.60	\$17.24	\$0.00	\$64.99
12/01/2020	\$40.13	\$8.60	\$17.24	\$0.00	\$65.97
06/01/2021	\$41.15	\$8.60	\$17.24	\$0.00	\$66.99
12/01/2021	\$42.16	\$8.60	\$17.24	\$0.00	\$68.00

For apprentice rates see "Apprentice- LABORER"

TRACTORS/PORTABLE STEAM GENERATORS  
OPERATING ENGINEERS LOCAL 4

06/01/2020	\$48.81	\$13.00	\$15.70	\$0.00	\$77.51
12/01/2020	\$49.95	\$13.00	\$15.70	\$0.00	\$78.65
06/01/2021	\$51.04	\$13.00	\$15.70	\$0.00	\$79.74
12/01/2021	\$52.18	\$13.00	\$15.70	\$0.00	\$80.88

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

Issue Date: 10/20/2020

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Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
TRAILERS FOR EARTH MOVING EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE A</i>	08/01/2020	\$37.12	\$12.91	\$13.72	\$0.00	\$63.75
	12/01/2020	\$37.12	\$12.91	\$14.82	\$0.00	\$64.85
	06/01/2021	\$37.92	\$12.91	\$14.82	\$0.00	\$65.65
	08/01/2021	\$37.92	\$13.41	\$14.82	\$0.00	\$66.15
	12/01/2021	\$37.92	\$13.41	\$16.01	\$0.00	\$67.34
TUNNEL WORK - COMPRESSED AIR <i>LABORERS (COMPRESSED AIR)</i>	06/01/2020	\$51.38	\$8.60	\$17.69	\$0.00	\$77.67
	12/01/2020	\$52.36	\$8.60	\$17.69	\$0.00	\$78.65
	06/01/2021	\$53.38	\$8.60	\$17.69	\$0.00	\$79.67
	12/01/2021	\$54.39	\$8.60	\$17.69	\$0.00	\$80.68
For apprentice rates see "Apprentice- LABORER"						
TUNNEL WORK - COMPRESSED AIR (HAZ. WASTE) <i>LABORERS (COMPRESSED AIR)</i>	06/01/2020	\$53.38	\$8.60	\$17.69	\$0.00	\$79.67
	12/01/2020	\$54.36	\$8.60	\$17.69	\$0.00	\$80.65
	06/01/2021	\$55.38	\$8.60	\$17.69	\$0.00	\$81.67
	12/01/2021	\$56.39	\$8.60	\$17.69	\$0.00	\$82.68
For apprentice rates see "Apprentice- LABORER"						
TUNNEL WORK - FREE AIR <i>LABORERS (FREE AIR TUNNEL)</i>	06/01/2020	\$43.45	\$8.60	\$17.69	\$0.00	\$69.74
	12/01/2020	\$44.43	\$8.60	\$17.69	\$0.00	\$70.72
	06/01/2021	\$45.45	\$8.60	\$17.69	\$0.00	\$71.74
	12/01/2021	\$46.46	\$8.60	\$17.69	\$0.00	\$72.75
For apprentice rates see "Apprentice- LABORER"						
TUNNEL WORK - FREE AIR (HAZ. WASTE) <i>LABORERS (FREE AIR TUNNEL)</i>	06/01/2020	\$45.45	\$8.60	\$17.69	\$0.00	\$71.74
	12/01/2020	\$46.43	\$8.60	\$17.69	\$0.00	\$72.72
	06/01/2021	\$47.45	\$8.60	\$17.69	\$0.00	\$73.74
	12/01/2021	\$48.46	\$8.60	\$17.69	\$0.00	\$74.75
For apprentice rates see "Apprentice- LABORER"						
VAC-HAUL <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE A</i>	08/01/2020	\$36.54	\$12.91	\$13.72	\$0.00	\$63.17
	12/01/2020	\$36.54	\$12.91	\$14.82	\$0.00	\$64.27
	06/01/2021	\$37.34	\$12.91	\$14.82	\$0.00	\$65.07
	08/01/2021	\$37.34	\$13.41	\$14.82	\$0.00	\$65.57
	12/01/2021	\$37.34	\$13.41	\$16.01	\$0.00	\$66.76
WAGON DRILL OPERATOR <i>LABORERS - ZONE 1</i>	06/01/2020	\$39.40	\$8.60	\$17.09	\$0.00	\$65.09
	12/01/2020	\$40.38	\$8.60	\$17.09	\$0.00	\$66.07
	06/01/2021	\$41.40	\$8.60	\$17.09	\$0.00	\$67.09
	12/01/2021	\$42.41	\$8.60	\$17.09	\$0.00	\$68.10
For apprentice rates see "Apprentice- LABORER"						
WASTE WATER PUMP OPERATOR <i>OPERATING ENGINEERS LOCAL 4</i>	06/01/2020	\$49.33	\$13.00	\$15.70	\$0.00	\$78.03
	12/01/2020	\$50.48	\$13.00	\$15.70	\$0.00	\$79.18
	06/01/2021	\$51.58	\$13.00	\$15.70	\$0.00	\$80.28
	12/01/2021	\$52.73	\$13.00	\$15.70	\$0.00	\$81.43
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
WATER METER INSTALLER <i>PLUMBERS &amp; GASFITTERS LOCAL 12</i>	09/01/2020	\$58.69	\$13.57	\$17.26	\$0.00	\$89.52
	03/01/2021	\$60.19	\$13.57	\$17.26	\$0.00	\$91.02
For apprentice rates see "Apprentice- PLUMBER/PIPEFITTER" or "PLUMBER/GASFITTER"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
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**Additional Apprentice Information:**

Minimum wage rates for apprentices employed on public works projects are listed above as a percentage of the pre-determined hourly wage rate established by the Commissioner under the provisions of the M.G.L. c. 149, ss. 26-27D. Apprentice ratios are established by the Division of Apprenticeship Training pursuant to M.G.L. c. 23, ss. 11E-11L.

All apprentices must be registered with the Division of Apprenticeship Training in accordance with M.G.L. c. 23, ss. 11E-11L.

All steps are six months (1000 hours.)

Ratios are expressed in allowable number of apprentices to journeymen or fraction thereof, unless otherwise specified.

\*\* Multiple ratios are listed in the comment field.

\*\*\* APP to JM: 1:1, 2:2, 2:3, 3:4, 4:4, 4:5, 4:6, 5:7, 6:7, 6:8, 6:9, 7:10, 8:10, 8:11, 8:12, 9:13, 10:13, 10:14, etc.

\*\*\*\* APP to JM: 1:1, 1:2, 2:3, 2:4, 3:5, 4:6, 4:7, 5:8, 6:9, 6:10, 7:11, 8:12, 8:13, 9:14, 10:15, 10:16, etc.

Issue Date: 10/20/2020

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THE COMMONWEALTH OF MASSACHUSETTS  
DEPARTMENT OF LABOR  
**DIVISION OF OCCUPATIONAL SAFETY**  
PREVAILING WAGE PROGRAM  
[www.mass.gov/dos/pw](http://www.mass.gov/dos/pw)

**NOTICE: TO AWARDING AUTHORITIES AND CONTRACTORS**

ISSUED: SEPTEMBER 1, 2006

**DRIVERS WHO HAUL BITUMINOUS CONCRETE (ASPHALT)**

The Massachusetts Supreme Judicial Court recently affirmed that drivers who haul bituminous concrete to public construction projects are not covered by the Prevailing Wage Law while off-site, including time spent over-the-road and picking-up materials. These drivers are covered by the Prevailing Wage Law only while on-site at the public construction project.

In Teamsters Joint Council No. 10 v. Department of Labor, et al., 447 Mass. 100 (2006), the SJC upheld a 2001 administrative decision limiting the applicability of prevailing wage rates to the time bituminous drivers spend at the public construction site. This most recent decision of the SJC followed a 1989 ruling that had upheld an earlier Department of Labor (and Industries) policy that had deemed this category of drivers to be “teamsters” under the Law and, therefore, entitled to prevailing wage rates. See Construction Industries of Massachusetts v. Commissioner of Labor and Industries, 406 Mass. 162 (1989). However, the earlier court case had left open the question of whether this entitled these bituminous drivers to prevailing wage rates for their over-the-road time as well as their on-site time. This most recent decision has now answered that question.

All of the requirements of the Prevailing Wage Law, including certified weekly payroll requirements, apply to bituminous drivers for all time spent at the public construction site.

**DRIVERS WHO HAUL READY-MIX CONCRETE (CEMENT)**

Drivers who haul ready-mix concrete to public construction projects are not covered by the Prevailing Wage Law while off-site, including time spent over-the-road and picking-up materials. These drivers are covered by the Prevailing Wage Law while on-site at the public construction project. This applicability determination was established by a 2001 administrative decision of the Department of Labor’s Division of Occupational Safety.

All of the requirements of the Prevailing Wage Law, including certified weekly payroll requirements, apply to ready-mix drivers for all time spent at the public construction site.

Please feel free to contact the Division of Occupational Safety at 617-626-6953 if you have any questions. Questions about enforcement of the Prevailing Wage Law may be directed to the Attorney General’s Fair Labor and Business Practices Division at 617-727-3465



**The Massachusetts Prevailing Wage Law**  
**M.G.L. ch. 149, §§ 26 – 27**

**NOTICE TO AWARDING AUTHORITIES**

- The enclosed wage schedule applies only to the specific project listed at the top and will be updated for any public construction project lasting longer than one (1) year.
- You should request an updated wage schedule from the Division of Occupational Safety if you have not opened bids or selected a contractor within 90 days of the date of issuance of the enclosed wage schedule.
- The wage schedule shall be incorporated in any advertisement or call for bids for the project for which it has been issued.
- Once a contractor has been selected by the awarding authority, the wage schedule shall be made a part of the contract for that project.

**NOTICE TO CONTRACTORS**

- The enclosed wage schedule, and any updated schedule, must be posted in a conspicuous place at the work site during the life of the project.
- The wages listed on the enclosed wage schedule must be paid to employees on public works projects regardless of whether they are employed by the prime contractor, a filed sub-bidder, or any sub-contractor.
- The enclosed wage schedule applies to all phases of the project including the final clean up. Contractors whose only role is to perform final clean up must pay their employees according to this wage schedule.
- All apprentices must be registered with the Massachusetts Division of Apprentice Training in order to be paid at the reduced apprentice rates. If a worker is not registered with the Division of Apprentice Training, they must be paid the “total rate” listed on the wage schedule regardless of experience or skill level. For further information, please call (617) 727-3486 or write to the Division of Apprentice Training, 399 Washington Street, 4th Floor, Boston, MA 02108

## **WEEKLY PAYROLL RECORDS REPORT & STATEMENT OF COMPLIANCE**

In accordance with Massachusetts General Law c149, §27B, a true and accurate record must be kept of all persons employed on the public works project for which the enclosed rates have been provided. A Payroll Form has been printed on the reverse of this page and includes all the information required to be kept by law. Every contractor or subcontractor is required to keep these records and preserve them for a period of three years from the date of completion of the contract.

In addition, every contractor and subcontractor is required to submit a copy of their weekly payroll records to the awarding authority. This is required to be done on a weekly basis. Once collected, the awarding authority is also required to preserve those records for three years.

In addition, each such contractor, subcontractor or public body shall furnish to the Department of Labor & Workforce Development/Division of Occupational Safety within fifteen days after completion of its portion of the work a statement, executed by the contractor, subcontractor or public body who supervises the payment of wages, in the following form:

### **STATEMENT OF COMPLIANCE**

\_\_\_\_\_, 2020

I, \_\_\_\_\_,  
(Name of signatory party) (Title)

do hereby state:

That I pay or supervise the payment of the persons employed by  
\_\_\_\_\_ on the \_\_\_\_\_  
(Contractor, subcontractor or public body) (Building or project)

and that all mechanics and apprentices, teamsters, chauffeurs and laborers employed on said project have been paid in accordance with wages determined under the provisions of sections twenty-six and twenty-seven of chapter one hundred and forty nine of the General Laws.

Signature \_\_\_\_\_

Title \_\_\_\_\_

DIVISION OF OCCUPATIONAL SAFETY, 399 WASHINGTON STREET, 5TH FL., BOSTON, MA. 02108



# CITY OF NEWTON

## GENERAL CONDITIONS OF THE CONTRACT

### FOR PUBLIC WORKS CONSTRUCTION

#### ARTICLE 1

##### Definitions

The word "Commissioner" shall mean the official duly authorized to act for the City of Newton in the execution of the work of this contract, acting directly or through properly authorized agents.

The word "Engineer," or "City Engineer," shall mean the City Engineer of the City of Newton, acting directly or through properly authorized agents, such agents acting within the scope of the particular duties entrusted to them.

The word "Contractor" shall mean the party or parties contracting to perform the work covered by this contract or his, or their, legal representatives, successors or assigns.

The word "Plans" shall mean plans, and all related drawings, diagrams, profiles and specifications referred to and included in the Project Manual for this contract.

The word "City" shall mean the City of Newton.

The word "Project" shall mean the services which are the subject of the Contract Documents.

The words "Subcontract" and "Subcontractor" shall refer to project contracts between the Contractor and a subcontractor, and the subcontractor thereunder.

The term "Substantial Completion" shall mean either that the work required by the contract has been completed except for the work having a contract price of less than one per cent of the then adjusted contract price, or substantially all of the work has been completed and opened to public use except for minor incomplete or unsatisfactory work items that do not materially impair the usefulness of the work required by the contract.

#### ARTICLE 2

##### Plans, Drawings, Profiles

1. The work shall be done in accordance with Plans referred to in Article 1 and such further working and detail plans, drawings and profiles as may be furnished from time to time by the Engineer. All said plans, general and detail, are to be deemed a part of this contract, and the said Plans, specifications and contract are to be considered together, so that any work mentioned in the contract, though not shown on the Plans, and any work shown on the Plans though not mentioned in the contract, is to be provided by the Contractor as a part of this contract. Figured dimensions are to prevail over scale. All things which in the opinion of the Engineer may fairly be inferred from the contract, Plans and specifications, are to be executed by the Contractor as a part of the contract; and the Engineer shall be sole judge as to whether detail plans, drawings and profiles conform to the Plans and the contract.

##### Discrepancy in Plans

2. The Contractor shall carefully examine all said Plans, profiles, drawings, specifications and orders; all figures, dimensions, lines, marks and scales thereof, and all directions of the Commissioner and the Engineer relating to the work, and conform to those in relation to which there is no doubt or discrepancy, but at once submit all cases of doubt or discrepancy to the Engineer for adjustment. Anything done on any part of the work for which special information or drawing should be procured, unless done in accordance with such information or drawing, or anything done in relation to which there is doubt or discrepancy, except in accordance with the adjustment thereof, or done in violation of law or public authority, is to be redone if the Commissioner shall so direct.

### **ARTICLE 3**

#### **Inspection**

The Contractor in carrying on the contract shall conform to all determinations and directions of the Engineer relating to the proper interpretation of the Plans, , the fitness of persons employed on the work or the number thereof, or the suitability, amount, quality, and value of anything done or any materials used, and the Contractor shall permit the Commissioner and/or the Engineer and/or persons designated by them to enter upon the work and inspect the same at all times and in all places, and shall provide safe and convenient facilities for making such entry and inspection.

### **ARTICLE 4**

#### **Change in Plans and Work**

The City, acting through the Commissioner and upon his written order only, from time to time given to the Contractor or his foreman, may change, increase or take away any part of the work, or change the specifications, Plans, drawings, form or materials thereof. Any deduction or addition thereto is to be allowed, or paid for at a price to be determined, within not more than 15 days of the completion of the change, by the City Engineer acting in the same capacity as an architect in a building contract as between City and Contractor. Any demand for addition or deduction must be made in writing to the City Engineer within seven (7) days of the time change was ordered.

### **ARTICLE 5**

#### **Time and Manner of Doing the Work**

1. The Contractor shall begin work upon receipt of written Notice to Proceed. Once begun the work shall be carried out in a continuous and uninterrupted fashion with sufficient workforce and resources to assure completion by the date for completion established by the Contract Documents.

2. The Contractor shall carry on the work in accordance with the requirements of law and of all other public authorities, and to the satisfaction of the Commissioner; he shall give all notices, take out all permits, pay all charges and fees, give personal supervision to the work and keep thereon a competent foreman and sufficient employees, skilled in the several parts which are given them to do.

#### **Maintenance of Travel**

3. As applicable, the Contractor shall conduct his work so as to interfere as little as possible with public travel, and shall give property owners proper means of access to their property where existing access has been cut off by the work. The Contractor shall keep the streets open for through travel except where, in the opinion of the Commissioner, it is necessary to close the street. The continuous length of the street occupied for the work shall be kept as short as possible, and no part of the work shall be unnecessarily delayed. Wherever the Commissioner shall direct, trenches shall be bridged by the Contractor in a proper and secure manner so as not to interrupt travel. Free access shall be maintained at all times to all water gates, gas gates, and fire hydrants.

#### **Abandonment of Work by Contractor**

4. In the event the City Engineer certifies to the Commissioner that the work is not being so carried forward or if the Contractor at any time is not carrying on the work to the satisfaction of the Commissioner, or is not observing any of the provisions of the contract, or has abandoned the work, or become insolvent or assigned his property, the City, acting by the Commissioner and at his discretion, may, with or without notice to the Contractor, or advertising for doing the work, and by contract, day labor or otherwise, do any part of the work which the Contractor has failed to do or replace any part not done to the satisfaction of the Commissioner, or take possession of the work and complete the same, and in doing so may use any implements, machinery or materials on or about the work which are the property of the Contractor, charging the Contractor any excess cost for completing the work, which excess cost the Contractor agrees to pay.

### **ARTICLE 6**

#### **Compensation for Work**

1. Subject to the provisions of Paragraph 10 of this Article, the price named in the proposal and accepted by the City shall be paid by the City and received by the Contractor as full compensation for furnishing materials and for use of tools, forms, machinery and other implements, and for labor in moving materials and executing all the work contemplated in this contract, also for loss or damage arising from delay however occasioned, or out of the nature of the work aforesaid or from the action of the elements, from

floods, or from any unforeseen obstructions or difficulties which may be encountered in the prosecution of the same and for all risks of every description connected with the work and for well and faithfully completing the work in the proper manner and according to the plans and specifications and requirements of the Commissioner under them.

2. During the first week of each calendar month, the City Engineer shall cause all work done by the Contractor during the previous month to be measured and shall estimate the value thereof and, on or before the 10th of each month issue a certificate to the Commissioner of the measurements and the amount due the Contractor according to the terms of his contract.

3. The City shall pay the Contractor on approval of the Commissioner monthly on or before the 18th of each month for all work done during the preceding month according to the aforementioned certificate of the City Engineer, less 5 per cent of the amount of such work and less any amounts due the City by the Contractor.

### **Final and Substantial Completion**

4. Upon substantial completion of the work required by the Contract, the Contractor must present to the City Engineer written certification that the work is substantially complete. Within 21 calendar days after such certification is presented, the City Engineer shall present to the Contractor either a written declaration that the work is substantially complete or an itemized list of incomplete or unsatisfactory work items sufficient to demonstrate that the work is not substantially complete. The City Engineer shall include with such itemized list a date by which the work items must be completed, which date may not be earlier than the date for substantial completion established in the Contract Documents. If the City Engineer does not respond as provided herein within 21 calendar days, then the date of the Contractor's certification shall become the date for effective declaration of substantial completion.

5. Within 15 calendar days after the effective declaration of substantial completion, the City Engineer shall send to the Contractor by certified mail, return receipt requested, a complete list of all incomplete or unsatisfactory work items. Unless delayed by causes beyond the Contractor's control, with an extension of time granted pursuant to Article 8, the Contractor must complete the work items within 45 calendar days after receipt of the list, or by the contractual completion date, whichever is later. If the contractor fails to complete the work within the required time the City may, notwithstanding other rights and remedies at its disposal, and upon seven days written notice to the Contractor terminate the contract and complete the incomplete or unsatisfactory work items and charge the cost of same to the Contractor.

6. Within 65 calendar days following the effective declaration of substantial completion, the City Engineer shall issue to the Commissioner who shall cause to be paid to the Contractor a substantial completion estimate which estimate shall consist of the balance of the then current contract price less a one percent retention, the estimated cost to complete incomplete or unsatisfactory work items, the value of any outstanding claims against the Contractor and the sum of all demands for direct payment made pursuant to Article 12 herein, provided that until final acceptance, the City shall retain five percent of the value of all items planted in the ground.

7. The Contractor shall provide written notice to the City Engineer when the work has been brought to final completion. Within ten days following receipt of such notice, and providing his inspection shows no work items remain incomplete or unsatisfactory, the City Engineer shall issue to the Commissioner a final certificate of the total amount of work done and the money due the Contractor therefor, crediting thereon the amounts of the previous payments. In making the final certificate, the City Engineer shall not be bound by any preceding certificate or estimate of the amount of work done or materials furnished.

8. Within 30 calendar days following receipt of final completion, the City shall pay the Contractor, on the approval of the Commissioner, the percentages retained and the balance due the Contractor according to the aforementioned final certificate of the City Engineer less any indebtedness of the Contractor for incomplete or unsatisfactory work or claims made by or against the City. If a claim or claims are made, or notice of liability given, such amounts due the Contractor may be paid upon satisfaction of such claims or upon furnishing of indemnity to said City against all loss, cost, damage or expense by reason of such claims.

9. The City, on making any payment after the completion of the work, shall be released from all claim or liability to the Contractor for anything done or used, or for any loss or injury sustained in carrying on the contract, or for any act, omission, neglect or mistake of the City or any person relating to or affecting the contract, except for the balance of any sum retained as aforesaid.

**Extra Work**

10. The Contractor shall be paid for any additions, or deductions as provided in Article 4, paragraph 1, and for extra labor done by, and for extra materials furnished by him in compliance with the written order only of the Commissioner, calling for work not similar in character to that covered by the items given in the proposal, and for which no price is set in the said written order, the direct (not including consequential) cost to the Contractor, as determined to be reasonable by the Commissioner, plus fifteen per cent of said costs as so determined in regard to labor only. For teams or trucks so furnished, no payment shall be made to the Contractor beyond the current local rate as determined by the Commissioner in each case. The direct cost of labor may include the cost of mechanics and laborers furnished and a reasonable proportion of the time of the foreman and timekeeper, but it shall in no case include any charge for the use of tools, for establishment charges or for time spent by the Contractor. The actual cost of insurance on extra pay rolls and of materials furnished for extra work shall be paid without any addition. The labor and materials so ordered shall constitute a part of the work to be done under the contract; and all and singular the provisions of the contract shall apply to said labor and materials as if the same were specified therein. The Contractor shall have no claim for the above-mentioned extra labor and materials unless he furnishes the details and bills therefor within one week after doing any such labor or furnishing any such materials.

11. No claim of the Contractor against the City under this contract shall be deemed valid unless such claim is presented to the Commissioner within ten days from the time when the Contractor first knows of, or has opportunity to know of, the facts and circumstances on which such claim is based.

12. A payment or payments to the Contractor, in cases where these provisions or any of them, are not complied with, shall not be construed as a waiver of said provisions or any part thereof.

**Contract Made Subject to Appropriations**

13. This contract is made subject to appropriation heretofore made and shall not be altered unless the Contractor, the sureties on the bond, if any, the officer making the contract and the Mayor shall in writing agree thereto.

**ARTICLE 7  
Liquidated Damages**

1. In case the work embraced in the contract shall not have been substantially completed by the date(s) stipulated therein, the Contractor shall pay to the City of Newton as liquidated damages a designated sum per calendar day for the entire period of overrun until the work is substantially completed in accordance with the following Schedule of Deductions and, in addition, the Contractor shall pay without reimbursement the entire cost of all traffic officers, railroad flagmen, inspectors, or other personnel the City Engineer and/or the Chief Engineer of the railroad determines to be necessary during the period of overrun of time.

**SCHEDULE OF DEDUCTIONS**

<u>Original Contract Amount</u> <u>From More Than</u>	<u>Daily Charge</u> <u>To and Including</u>	<u>Per Calendar Day</u>
\$0.00	\$25,000.00	\$30.00
\$25,000.00	\$50,000.00	\$50.00
\$50,000.00	\$100,000.00	\$100.00
\$500,000.00	\$1,000,000.00	\$150.00
\$1,000,000.00	\$2,000,000.00	\$200.00
\$2,000,000.00	-----	\$300.00

2. In case the work covered by the contract shall not have been brought to final completion within 45 calendar days following the date of declaration of substantial completion, the Contractor shall pay to the City of Newton as liquidated damages the sum of \$150.00 for each week or portion thereof during the period of overrun until the work is complete.

3. Whatever sum of money may become due and payable to the City of Newton by the Contractor under this Article may be retained out of money belonging or owed to the Contractor in the hands and possession of or by the City of Newton. It is agreed that this Article shall be construed and treated by the parties to the contract not as imposing a penalty upon said Contractor for failing fully to complete said work as agreed on or before the time specified in the proposal, but as liquidated



damages to compensate said City of Newton for all additional costs incurred by it because of the failure of the Contractor fully to complete said work on or before the date of completion specified in the proposal.

**ARTICLE 8**  
**Delays and Extensions of Time**

1. If the Contractor is delayed at any time in the progress of the work by an act or neglect of the City, or by changes in the work ordered by the City, or by unseasonably inclement weather, or by other causes deemed by the City Engineer to be beyond the Contractor's control, and which the City Engineer determines may justify delay, then the time for completion may be extended for such reasonable time as the City Engineer may determine.

2. No such extension of time will be allowed unless the Contractor submits a written request for an extension to the City Engineer no later than 10 calendar days of the start of the occurrence or event-giving rise thereto. Each such request must describe the occurrence or event and specify the manner and extent that such occurrence or event is causing or has caused a delay in the work. The City Engineer shall promptly investigate each request and make his written determination to the Commissioner and the Contractor within 10 days after receipt of the request. In his determination the City Engineer may either grant, deny, or modify the length of the requested extension.

3. If the City Engineer's determination so warrants, the Commissioner shall authorize a written Change Order to the Contract extending the time for completion. No extension of time shall be deemed as granted until said Change Order has been duly executed by the parties.

4. Change Orders which may be executed by the City and the Contractor in connection with additions, extra labor and/or extra materials shall not be considered as allowing extensions of the time for completion unless the change order expressly specifies that additional time is allowed in connection with the work under the change order. Once a Change Order has been executed by the parties, any request by the Contractor for an extension of time based solely on the fact that additions, extra labor and/or extra materials are required by the Change Order will be denied by the City Engineer.

5. Permitting the Contractor to continue and finish the work or any part of it after the times fixed for its completion, or after the date to which the time for completion may have been extended, shall in no way operate as a waiver on the part of the City of Newton of any of its rights under the contract. The Contractor remains liable for damages caused other than by delay.

**ARTICLE 9**  
**Lines and Grades**

The Contractor shall retain a Registered Land Surveyor who shall furnish such boards and stakes and cause to be placed thereon, such lines, marks and directions relating to the work as the Commissioner or City Engineer shall from time to time direct.

**ARTICLE 10**  
**Public Service Pipes and Conduits**

1. The Contractor shall maintain such pipes or conduits of public service corporations or of the City as are across or within the lines of the work until such time as said public service corporations or the City assume the maintenance or removal of said pipes or conduits. The Commissioner will notify such public service corporations to that effect on the existence of such obstructions to the work being brought to his notice by the Contractor. The City will relocate either temporarily or permanently all water mains and water service pipes, or hydrants, and drains or sewers which may interfere with the work contemplated in this contract. (This clause is not to be construed as applying to such pipes as may be readily supported and protected during the progress of the work.) The cost of shutting off and turning on water in water mains during blasting shall be assumed by the City.

**Protection of Existing Structures**

2. All existing gas pipes, water pipes, sewers, drains, conduits, or other structures which are uncovered by the excavation shall be carefully supported and protected from injury by the Contractor, and, in case of injury, they shall be restored by him, without compensation therefor, to as good condition as that in which they were found, and shall be kept in repair until 6 months after the completion of the work. The Contractor shall provide suitable temporary channels for water at all water courses. Wherever the work passes under or adjacent to street railway tracks, the Contractor shall make all necessary arrangements with the railway company for doing any work which may affect the property of the company or interfere with



the operating of the railway, and he shall be liable for any damage that may be caused by any act, omission or neglect on his part, and shall pay all expenses of every kind incidental to this work.

### **Changing the Location of Existing Structures**

3. Whenever it becomes necessary to change the location of any water or gas pipes, sewers, drains, conduits or other structures not otherwise provided for in these specifications, the Contractor shall do the whole or such portions of the work of making such changes as the Commissioner may require, and shall receive in payment therefor the reasonable cost of the work done as determined by the Commissioner plus 15 per cent of such cost. In estimating such cost, no allowance shall be made to the Contractor for the use of tools not especially provided for this work, for general superintendence, or for any overhead expenses except liability insurance.

## **ARTICLE 11**

### **Co-operation with Other Contractors**

The Contractor shall conduct the work in such manner as not to interfere with other work being done by the City, by contract or otherwise, and if deemed necessary by the Commissioner, the work under this contract shall conform to the progress of said other work; shall co-operate with other contractors or employees who may be doing work for the City, and with public service corporations affected by the work, in arranging for storage places, connections, bracings, temporary support for structures, repairs, etc.

## **ARTICLE 12**

### **Subcontracts**

1. The Contractor, in any contract with a Subcontractor, shall provide that the Subcontractor shall be subject to all specifications, terms, provisions, conditions, requirements and liabilities set forth in this contract so far as such specifications, terms, provisions, conditions, requirements and liabilities are applicable to the work to be done under such Subcontract, and shall also provide that such Subcontract shall be terminated by the Contractor whenever the Commissioner shall certify to him in writing that in his opinion the work of the Subcontractor is unnecessarily or unreasonably delayed or that the Subcontractor has violated any of the provisions of this contract. The Contractor shall at once terminate such subcontract if the Commissioner, after certifying as previously mentioned, shall in writing direct the Contractor to make such termination.

2. Subcontracts shall be made in writing and the Contractor shall furnish the Commissioner with a copy of all Subcontracts on demand.

3. Pursuant to the provisions of M.G.L. Ch. 30, Sec. 39F (1), the following provisions are included in the General Conditions:

(a) Forthwith after the Contractor receives payment on account of a periodic estimate, the Contractor shall pay to each Subcontractor the amount paid for the labor performed and the materials furnished by that Subcontractor, less any amount specified in any court proceedings barring such payment and also less any amount claimed due from the Subcontractor by the Contractor.

(b) Not later than the sixty-fifth day after each Subcontractor substantially completes his work in accordance with the plans and specifications, the entire balance due under the Subcontract less amounts retained by the City as the estimated cost of completing the incomplete and unsatisfactory items of work, shall be due the Subcontractor; and the City shall pay that amount to the Contractor. The Contractor shall forthwith pay to the Subcontractor the full amount received from the City less any amount specified in any court proceedings barring the payment and also less any amount claimed due from the Subcontractor by the Contractor.

(c) Each payment made by the City to the Contractor pursuant to subparagraphs (a) and (b) of this paragraph for the labor performed and the materials furnished by a Subcontractor shall be made to the Contractor for the account of the Subcontractor; and the City shall take reasonable steps to compel the Contractor to make each such payment to each such Subcontractor. If the City has received a demand for direct payment from a Subcontractor for any amount which has already been included in a payment to the Contractor or which is to be included in a payment to the Contractor for payment to the Subcontractor as provided in subparagraphs (a) and (b), the City shall act upon the demand as provided in this section.

(d) If, within seventy days after the Subcontractor has substantially completed the Subcontract work, the Subcontractor has not received from the Contractor the balance due under the Subcontract including any amount due for

extra labor and materials furnished to the Contractor, less any amount retained by the City, the demand shall be by a sworn statement delivered to or sent by certified mail to the City, and a copy shall be delivered to or sent by certified mail to the Contractor at the same time.

The demand shall contain a detailed breakdown of the balance due under the Subcontract and also a statement of the status of the completion of the Subcontract work shall be valid even if delivered or mailed prior to the seventieth day after which the Subcontractor has substantially completed the Subcontract work. Within ten days after the Subcontractor has delivered or so mailed the demand to the City and delivered or so mailed a copy to the Contractor, the Contractor may reply to the demand. The reply shall be by a sworn statement delivered to or sent by certified mail to the City and a copy shall be delivered to or sent by certified mail to the Subcontractor at the same time. The reply shall contain a detailed breakdown of the balance due under the Subcontract including any amount due for extra labor and materials furnished to the Contractor and of the amount due for each claim made by the Contractor against the Subcontractor.

(e) Within fifteen days after receipt of the demand by the City, but in no event prior to the seventieth day after substantial completion of the Subcontract work, the City shall make direct payment to the Subcontractor of the balance due under the Subcontract including any amount due for extra labor and materials furnished to the Contractor, less any amount (i) retained by the City as the estimated cost of completing the incomplete or unsatisfactory items of work (ii) specified in any court proceedings barring such payment, or, (iii) if the reply shall not deduct from a direct payment any amount as provided in part (iii) if the reply is not sworn to, or for which the sworn reply does not contain the detailed breakdown required by subparagraph (d). The City shall make further direct payments to the Subcontractor forthwith after the removal of the basis for deductions from direct payments made as provided in parts (i) and (ii) of this subparagraph.

(f) The City shall forthwith deposit the amount deducted from a direct payment as provided in part (iii) of subparagraph (e) in an interest-bearing joint account in the names of the Contractor and the Subcontractor in a bank in Massachusetts selected by the City or agreed upon by the Contractor and the Subcontractor and shall notify the Contractor and the Subcontractor of the date of the deposit and the bank receiving the deposit. The bank shall pay the amount in the account, including accrued interest, as provided in an agreement between the Contractor and the Subcontractor or as determined by decree of a court of competent jurisdiction.

(g) All direct payments and all deductions from demands for direct payments deposited in an interest-bearing account or accounts in a bank pursuant to subparagraph (f) shall be made out of amounts payable to the Contractor at the time of receipt of a demand for direct payment from a Subcontractor and out of amounts which later become payable to the Contractor and in the order of receipt of such demands from Subcontractors. All direct payments shall discharge the obligation of the City to the Contractor to the extent of such payment.

(h) The City shall deduct from payments to a Contractor amounts which, together with deposits in interest-bearing accounts pursuant to subparagraph (f), are sufficient to satisfy all unpaid balances of demands for direct payment received from Subcontractors. All such amounts shall be earmarked for such direct payments, and the Subcontractors shall have a right in such deductions prior to any claims against such amounts by creditors of the Contractor.

## **ARTICLE 13**

### **Responsibility for Work-Contractor's Responsibility**

The Contractor has made his proposal from his own examinations and estimates, and shall not hold the City, its agents, or employees, responsible for or bound by, any schedule, estimate, sounding, boring, or any plan of any part of the work; shall, if any error in any plan, drawing, specification or direction relating to anything to be done under the contract come to his knowledge, report it at once to the Commissioner; shall not, except as the Commissioner shall authorize in writing, assign or sublet any part of the contract except for the supply of materials and plant, or of anything to be done thereunder; shall, subject to the provisions of the contract take all responsibility of, and bear all losses resulting to him in carrying on the contract, and shall assume the defense of, and hold the City, its agents and employees harmless from all suits and claims against them, or any of them, arising from the use of any invention, patent or patent right, material, labor or implement, by or from any act or omission or neglect of the Contractor, his Subcontractor, his agents or employees, in carrying on the contract, or for any liability of any nature arising under the contract. The Contractor shall be solely responsible and liable for, and shall fully protect and indemnify the City against all claims for damages to persons or property occasioned by or resulting from blasting or other methods or processes in the work of construction, whether such damages be attributable to negligence of the Contractor, his employees or his Subcontractor or otherwise.

**ARTICLE 14  
LIGHTS--GUARDS**

1. The Contractor shall assume all responsibilities of the work and take all proper precautions to protect persons and property from injury and unnecessary interference; leave a reasonably unobstructed way along public and private places for pedestrians, teams, and vehicles, and for access to hydrants; provide proper walks over or around any obstruction made in a public or private place in carrying on the contract, and maintain from the beginning of twilight through the whole of every night, on or near the obstruction sufficient lights and guards to protect travelers from injury thereby, and if, after one notification from the Commissioner that said lights and guards are not sufficient, the Contractor has not placed additional lights and guards to the satisfaction of the Commissioner, the Commissioner shall have the right to take charge of that part of the work at the expense of the Contractor. While the work is suspended he shall keep all roadways and sidewalks in proper condition, and when the work is completed put the place and vicinity in proper condition and so leave them.

2. The Contractor shall provide proper means of access to property where the existing access is cut off by the Contractor and replace or put in good condition every conduit, catch-basin, tree, wall, fence, or other thing injured by the Contractor in carrying on the contract, unless the same has been permanently done away with, on approval of the Commissioner, as being necessary to the proper carrying on of the contract.

**ARTICLE 15  
Guaranty**

1. Any settlement or other defect, or the failure of any part of the structure or the work due to defective materials or workmanship, that occurs within one year after the work is completed, is to be immediately repaired by the Contractor. In the event of any such settlement, defect, or failure causing liability to the City for damage to persons or property, the Contractor does by this clause agree to hold the City harmless and to assume the defense of any claims therefor.

2. Responsibility under this guaranty for the adequacy of the work does not relieve the Contractor of his obligation to comply with the terms of the contract and to conform to all the requirements of the plans and specifications, nor does it give him the right to deviate in any way from the details of design of the structure or the work.

**ARTICLE 16  
Defective Work and Materials**

The inspection of the work shall not relieve the Contractor of any of his obligations to fulfill his contract as herein described, and defective work shall be made good and unsuitable materials may be rejected, notwithstanding that such work and materials have been previously overlooked by the Engineer and accepted or estimated for payment. If the work or materials, or any part thereof shall be found defective at any time before the final acceptance of the whole work, the Contractor shall forthwith make good such defect in a manner satisfactory to the Engineer, and if any material brought upon the ground for use in the work or selected for the same, shall be condemned by the Engineer as unsuitable or not in conformity with the specifications, the Contractor shall forthwith remove such materials from the vicinity of the work. Nothing in this contract shall be construed as vesting in the Contractor any right of property in the materials used after they have been attached or affixed to the work or the soil, but all materials shall, upon being so attached or affixed, become the property of the City.

**ARTICLE 17  
Employment of Labor**

The Contractor shall give preference in employment, first to citizens of Massachusetts, second, to other citizens of the United States; and shall allow all employees on said work to lodge, board and trade where they choose, and shall not obstruct any other person in doing work for the City; and shall conform to all labor laws of the Commonwealth; and no laborer or teamster, workman or mechanic working within this Commonwealth in the employ of the Contractor or Subcontractor or other person doing or contracting to do the whole or a part of the work contemplated by the Contractor shall be requested to, or required to, or work more than eight hours in any one calendar day. This contract is subject to all the laws of the Commonwealth and ordinances of the City and if any clause thereof does not conform to such laws and ordinances, such clause shall be void and such laws and ordinances operated in lieu thereof.

**ARTICLE 18****Laws and Regulations - Contractor to Comply with Law**

The Contractor shall keep fully informed of all existing or future acts of the legislature, and of all municipal ordinances, prohibitions, rules and regulations in any manner affecting the conduct of the work, and of all orders or decrees of anybody or tribunal having any jurisdiction or authority over the materials, times, places and actions of those employed in the work embraced in the contract. The Contractor shall at all times observe and comply with all existing and future acts, ordinances, prohibitions, rules, regulations, orders and decrees; and shall protect and indemnify the city and its employees against any and all claims arising from or based on any violation of such acts, ordinances, prohibitions, rules, regulations, orders or decrees, and against all violations of law by the Contractor or his agents or employees.

**END OF SECTION**

## CITY OF NEWTON

### SUMMARY OF WORK AND SPECIFIC REQUIREMENTS OF THE CONTRACT

#### FOR PUBLIC WORKS CONSTRUCTION

##### I. SUMMARY OF WORK

###### A.

1. **The work under this Contract consists of furnishing all necessary labor, materials and equipment required for the construction of curb extensions (bump outs) at the Allen Ave/Plainfield St and the Allen Ave/Pine Ridge Rd intersections and the construction of a raised intersection at the Beethoven Ave/Puritan Rd intersection. The general work of the contract includes removal and immediate off-site disposal of bituminous concrete by milling and resurfacing the top course of SUPERPAVE asphalt or excavation and full depth construction consisting of a gravel subbase, as needed, and two courses of SUPERPAVE asphalt. The project also includes, reconstruction of sidewalks, installation of granite curbing, construction of ADA compliant curb ramps, reconstruction of a section of an existing driveway, minor drainage improvements, adjustment to castings, loam and seed, application of pavement markings, installation of signs, installation of bollards, removing and resetting of bounds and all other work described in the Contract Documents unless specifically indicated as not to be done\***

**\*Notice #1:** The quantities represented in this Invitation for Bid are dependent on Mass D.O.T. Chapter 90 funding. These monies are traditionally allotted, and subsequently apportioned by the City of Newton, on or about April 1 of each calendar year. **Therefore, the quantities listed in this Invitation for Bid may be revised at the time of the bid award.**

2. All other work described in the Project Manual and/or shown on the Plan(s) unless specifically indicated as not to be done.

###### B. In addition, the work under the contract includes:

1. Work outside the Project Site as called for in the Project Manual and/or Plan(s) and as required for the performance of the work.
2. The restoration of any items damaged or destroyed by encroaching upon areas outside the Project Site.
3. All labor, materials, tools, and equipment necessary to do all the work required for the completion of each item as specified, which shall be limited not only to the exact intent mentioned, but shall include incidental work necessary or customarily performed for the completion of that item.
4. All items not specifically mentioned or noted in the Project Manual and/or Plan(s), but which are obviously necessary to make a complete working installation.

C. The Proposed Contract Price shall be complete costs, including overhead, profit, insurance, transportation, and all other costs connected with, or incidental to the work described.

##### II. TIME FOR COMPLETION AND LIQUIDATED DAMAGES

A. Upon notification the Contractor shall commence the work specified in the Project Manual as directed by the City. The work shall proceed in a continuous uninterrupted fashion with adequately staffed crews, in a satisfactory manner, which will assure that the work is completed in a timely manner to the satisfaction of the City.

B. The time for substantial completion pursuant to:

**NOTICE: \* TIME IS OF THE ESSENCE \***

**Within five (5) business days of the Notice of Award the Contractor shall submit to the Purchasing Department:**

- **A signed contract.**
- **A Certificate of Insurance (naming the City as an additional insured)**
- **A Labor and Materials Payment Bond in the amount of 50% of the contract total.**

**The start date is the date on which the Notice to Proceed is issued, which is anticipated to be April 1, 2021, or sooner if weather permits. Time for completion is prior to June 30, 2021. This work is to be performed in conjunction with a separately issued paving contract. The successful bidder must be able to accommodate the City of Newton in the scheduling and/or coordination of this work.**

Time is of the essence for the completion of this contract. If the Contractor fails to achieve substantial or final completion of the Work within the time required by the contract, and unless an extension of time is granted, the Contractor shall pay to the City as liquidated damages, the applicable amount specified in **Article 6A** of the **General Conditions** for each day of delay. If different completion dates are specified in the Contract for separate parts or stages of the work, the amount of liquidated damages shall be assessed on those parts or stages which are delayed. To the extent that the Contractor's delay or nonperformance is excused under another section in this Contract, liquidated damages shall not be due the City. The Contractor remains liable for damages caused other than by delay.

**III. INSURANCE REQUIREMENTS**

- A. The Contractor shall carry and maintain until acceptance of the work such Workmen's Compensation, Automobile Liability, Public Liability, Contingent Public Liability, Property Damage and Contingent Property Damage Insurance, each including blasting coverage, as shall protect him and any sub-contractor performing work covered by this contract from all claims and liability for damages for personal injury, including accidental death, and for property damage which may arise from operations under this contract, whether such operations be by himself or by any sub-contractor or by any one directly or indirectly employed by either of them.
- B. The City shall be named as an additional insured on such policy.
- C. The amounts of such insurance shall be as follows:
1. Workmen's Compensation Insurance as required by Massachusetts General Law.
  2. Automobile Liability Insurance on all vehicles owned or hired for a.) Bodily Injury in an amount not less than \$500,000.00 for each occurrence, and not less than \$1,000,000.00 aggregate; b.) Property Damage in an amount not less than \$300,000.00 each occurrence, and not less than \$500,000.00 aggregate.
  3. Public Liability Insurance and Contingent Public Liability Insurance in an amount not less than \$500,000.00 for injuries, including accidental death to any one person, and subject to the same limit for each person, in an amount not less than \$1,000,000.00 on account of one accident.
  4. Property Damage Insurance and Contingent Property Damage Insurance in an amount not less than \$300,000.00 on account of one accident, and in an amount of not less than \$500,000.00 on account of all accidents.
  5. General Liability Insurance shall include Contractual Liability Insurance.

- D. Before any work is started, the successful bidder shall be required to file with the Chief Procurement Officer certificates of insurance coverage as detailed above, with policy numbers and dates of expiration.
  
- E. The Contractor shall indemnify, hold harmless and defend the City and its departments, officers, employees, servants, and agents from and against all actions, causes of actions, claims, demands, damages, costs, loss of services, expenses and compensation, including attorney's fees and interest arising out of or resulting directly or indirectly from the services rendered pursuant to this Contract, provided that any such action, cause of action, claim, demand, damage, cost, loss of service, expense, compensation (1) in any way grows out of bodily injury, sickness, disease or death, or to injury to or destruction of tangible property, which (2) is caused in whole or in part by any act or omission of the Contractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, regardless of whether or not it is caused in part by a party indemnified hereunder.

**END OF SECTION**



## GENERAL CONDITIONS

**The work under this Contract consists of furnishing all necessary labor, materials and equipment required for the construction of curb extensions (bump outs) at the Allen Ave/Plainfield St and the Allen Ave/Pine Ridge Rd intersections and the construction of a raised intersection at the Beethoven Ave/Puritan Rd intersection. The general work of the contract includes removal and immediate off-site disposal of bituminous concrete by milling and resurfacing the top course of SUPERPAVE asphalt or excavation and full depth construction consisting of a gravel subbase, as needed, and two courses of SUPERPAVE asphalt. The project also includes, reconstruction of sidewalks, installation of granite curbing, construction of ADA compliant curb ramps, reconstruction of a section of an existing driveway, minor drainage improvements, adjustment to castings, loam and seed, application of pavement markings, installation of signs, installation of bollards, removing and resetting of bounds and all other work described in the Contract Documents unless specifically indicated as not to be done.**

All work done under this contract shall be in conformance with:

- the City of Newton Standard Specifications and General Construction Details,
- the Massachusetts Department of Transportation Standard Specifications for Highways and Bridges, dated 2020
- the 2017 Construction Standards and the Supplemental Drawings dated April 2003,
- the 2006 Massachusetts Highway Department Project Development and Design Guide dated February 25, 2010,
- the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD) with revisions and Massachusetts Amendments,
- the 1990 Standard Drawings for Signs and Supports,
- the 1968 Standard Drawings for Traffic Signals and Highway Lighting,
- the latest edition of American Standard for Nursery Stock,
- the Contract Project Manual with any Project Addenda.

The General Conditions, Supplementary Conditions and these Special Provisions shall take precedence over the General Requirements of Division 1 of the Standard Specifications of the Massachusetts Department of Transportation (MassDOT).

If during construction operations the contractor disturbs any survey monuments (temporary or permanent) the engineer may direct the contractor to reestablish the survey monuments at no additional cost to the owner. The contractor shall be required to use a Professional Surveyor registered in the Commonwealth of Massachusetts, unless otherwise directed by the Engineer.

It shall be the responsibility of the contractor to coordinate with all third party utility companies that maybe affected by this contract. This shall include but not limited to adjustment or replacement of existing structures as directed by the appropriate utility company. The owner shall not compensate the contractor for work done on behalf of a third party.

**The scheduling of this work shall be solely at the discretion of the Engineer.**

- **All roadways shall be paved within 10 business days of cold planning, weather permitting, unless otherwise directed by the Engineer. Failure to comply may result in a fine of up to \$5,000 per day. The Contractor shall have all temporary pavement markings applied within 24 hours of cold-planning operations, misc. asphalt applications, and permanent paving. The Contractor shall also have permanent pavement markings applied within 30 business days of applying the final top course of SUPERPAVE asphalt to the roadway. Failure to do so may result in a penalty of \$2,000 per day per street. Any open excavation of a sidewalk, driveway, or accessible curb ramp area shall be completed within 10 business days, unless written exception is approved by the Engineer. Failure to do so may result in a penalty of \$2,000 per day per street. An accessible route for pedestrians shall be made available at all times and shall be properly maintained as such. The accessible route shall be equal to the distance of the route provided to able pedestrians. Failure to maintain a clear accessible route shall result in a penalty of \$5,000 per day per street.**



- **The objective of this project is to provide, to the extent possible, a 2% cross slope on roadway. Other criteria are as follows: Minimum profile & gutter gradient - 1%; New final roadway pavement shall not alter current overland drainage patterns.**
- **If schools are present within the paving limits or along a detour route, such work shall be avoided to the extent feasible and as directed by the Engineer while school is in session. Roadway Construction shall not interfere with school operations.**
- **The contractor shall maintain a clean and orderly staging area within city limits for the duration of the project. The staging area shall be free of construction debris by the end of the week (Friday) unless receiving written permission from the Engineer. Failure to comply may result in a fine of up to \$1,000.00 per day per staging area.**
- **Work will not be permitted on Federal, State or City Holidays. Work will not be permitted on religious holidays as designated by the City Engineer.**
- **The Contractor shall not be allowed to move any equipment required for the proposed work found in this contract from project zone to project zone under its own power unless prior permission is granted by the Engineer.**
- **All aspects of this target list are subject to modification as the work progresses. The intended purpose of the road list is to provide bidders with a guide of street types to be completed with each treatment.**
- **Night work is scheduled by Newton Police Department, in consultation with Public Works. Night work shall be performed when road construction during the day interferes with traffic operations to such an extent that public safety is compromised and as otherwise specified in the Contract Documents.**
- **Prior to the final installation of the top course, the Engineer may require a pre-construction meeting/walk through to assure that all conditions and specifications required to be completed before final paving have been finalized satisfactory to the Engineer.**

### **LIMITS OF WORK**

Location Maps of the Limits of Work can be found in the Contract Documents.

The exact Limits of Work and the depth of milling and paving must be reviewed and delineated with the Engineer in the field prior to the Contractor beginning work. The Contractor is responsible for taking accurate measurements of actual field conditions prior to ordering proposed materials or beginning construction.

**ITEM SHEET**

The Contractor shall insert unit prices for each item in ink, in both words and figures, and is to show a total bid price (unit price x estimated quantities). In the event a discrepancy between the written words and figures, the written words shall govern. In the event an error in the bidders total bid price, the corrected total bid obtained by the summation of the products of the unit prices multiplied by the respective quantities shall stand as the bidder’s total bid price.

Unbalanced bidding is expressly prohibited and all unit bid prices will be compared for reasonable conformance with the engineer's estimate. The City has the right to reject award of a bid, or part thereof, to protect the public interest if it is apparent that a bid is mathematically unbalanced, the bidder front-ends its bid as to amount to an advanced payment, there extreme variations from the engineer's estimate or other bids received, if in the opinion of the City, the unit prices create a reasonable doubt that that apparent low bidder will actually result in the lowest cost to the Department, and/or if the overall competitive bidding process has been jeopardized.

**\*The estimated quantities shown here are based solely upon a reasonable assessment of the project parameters, thus the Contractor is advised that the actual quantities may vary substantially as field conditions may necessitate. Regardless of the amount of actual quantities, however, the quoted unit prices shall always apply.**

**There is no separate labor charge under this bid: unit prices shall include full compensation for all labor, materials, tools and equipment, and all incidentals necessary to complete the work as specified herein.**

**NOTICE: In accordance with MGL Chapter 303 of the Acts of 2008 this bid contains price adjustments for 1) Fuel (combination of Gasoline & Diesel), 2) Liquid Asphalt, and 3) Portland Cement Concrete. It is the bidders’ responsibility to familiarize themselves with this price adjustment program prior to entering a bid.**

ITEM DESCRIPTION & BID PRICE	EST. QTY*	UNIT	TOTAL COST
<p><b>ITEM 0.303DFC-A: DIFFERENTIAL FUEL COSTS FOR ASPHALT</b></p> <ul style="list-style-type: none"> <li>Bidders may elect <b>NOT</b> to utilize the cost of fuel(s) separately by inserting the term <b>N/A</b> (i.e. Not Applicable) in the following space for this item. This is a mandatory requirement to verify the Contractor has waived their option to bid the cost of fuel(s) separately and has instead elected to factor their fuel costs into the respective bid price for that item.</li> <li><b>To waive the utilization of the cost of fuel(s) write N/A here: _____</b></li> </ul> <p><b>(PPF - \$ <u>1.559/1.593</u>) per GAL x ( <u>2.90</u> (diesel; n/a gas) GAL /TN) x</b>  <i>^Base Price^                      ^Fuel Factor^</i>  <i>of diesel/                              Per MassDOT</i>  <i>gasoline = BPF</i>  <i>Per MassDOT</i></p>	N/A	TN	<p>The Base Price (BPF) shall be used to determine the monthly price differential. (See Spec. Prov.)</p> <p>\$ <u>  N/A  </u></p>

ITEM DESCRIPTION & BID PRICE	EST. QTY*	UNIT	TOTAL COST
<p><b>ITEM 0.303DFC-EXB: DIFFERENTIAL FUEL COSTS FOR EXCAVATION AND BACKFILL</b></p> <ul style="list-style-type: none"> <li>Bidders may elect <b>NOT</b> to utilize the cost of fuel(s) separately by inserting the term <b>N/A</b> (i.e. Not Applicable) in the following space for this item. This is a mandatory requirement to verify the Contractor has waived their option to bid the cost of fuel(s) separately and has instead elected to factor their fuel costs into the respective bid price for that item.</li> <li><b>To waive the utilization of the cost of fuel(s) write N/A here: _____</b></li> </ul> <p>(PPF - \$ \$ <u>1.559/1.593</u>) per GAL x ( <u>0.29</u> GAL per CY) x  <i>^Base Price^                      ^Fuel Factor^</i>  <i>of diesel/                              Per MassDOT</i>  <i>gasoline = BPF</i>  <i>Per MassDOT</i></p>	N/A	CY	<p>The Base Price (BPF) shall be used to determine the monthly price differential. (See Spec. Prov.)</p> <p>\$ <u>  N/A  </u></p>
<p><b>ITEM 0.303DLA-A: DIFFERENTIAL FOR LIQUID ASPHALT FOR ASPHALT</b></p> <ul style="list-style-type: none"> <li>Bidders may elect <b>NOT</b> to utilize the cost of fuel(s) separately by inserting the term <b>N/A</b> (i.e. Not Applicable) in the following space for this item. This is a mandatory requirement to verify the Contractor has waived their option to bid the cost of fuel(s) separately and has instead elected to factor their fuel costs into the respective bid price for that item.</li> <li><b>To waive the utilization of the cost of fuel(s) write N/A here: _____</b></li> </ul> <p>(Note: The percentage of Liquid Asphalt <u>used for One (1) Ton of Asphalt</u> shall be determined by the Contractor's mix formula submittal)</p> <p>The <b>Base Price</b> for Liquid Asphalt is:</p> <p>\$ <u>  500.00  </u> PER TON OF LIQUID ASPHALT  <i>Base Price of Liquid Asphalt (BPLA)</i>  <i>Per MassDOT</i></p>	N/A	TN	<p>The Base Price (BPLA) shall be used to determine the monthly price differential. (See Spec. Prov.)</p> <p>\$ <u>  N/A  </u></p>

ITEM DESCRIPTION & BID PRICE	EST. QTY*	UNIT	TOTAL COST
<p><b>ITEM 0.303DPC-C: DIFFERENTIAL FOR PORTLAND CEMENT CONCRETE</b></p> <ul style="list-style-type: none"> <li>Bidders may elect <b>NOT</b> to utilize the cost of fuel(s) separately by inserting the term <b>N/A</b> (i.e. Not Applicable) in the following space for this item. This is a mandatory requirement to verify the Contractor has waived their option to bid the cost of fuel(s) separately and has instead elected to factor their fuel costs into the respective bid price for that item.</li> <li><b>To waive the utilization of the cost of fuel(s) write N/A here: _____</b></li> </ul> <p>The <b>Base Price</b> for Portland Cement Concrete is:</p> <p>\$ <u>135.90</u> PER CUBIC YARD OF PORTLAND CEMENT CONCRETE  <i>Base Price of Portland Cement Concrete (BPPCC)</i>  <i>Per MassDOT</i></p>	N/A	CY	<p>The Base Price (BPPCC) shall be used to determine the monthly price differential.  (See Spec. Prov.)</p> <p>\$ <u>N/A</u></p>
<p><b>ITEM 102.511: TREE PROTECTION – ARMORING AND PRUNING</b></p> <p>THE SUM OF:</p> <p>_____ DOLLARS</p> <p>AND _____ CENTS</p> <p>(\$ _____ ) PER EACH</p>	10	EA	\$
<p><b>ITEM 120.1: UNCLASSIFIED EXCAVATION</b></p> <p>THE SUM OF:</p> <p>_____ DOLLARS</p> <p>AND _____ CENTS</p> <p>(\$ _____ ) PER CUBIC YARD</p>	300	CY	\$
<p><b>ITEM 141.1: TEST PIT FOR EXPLORATION</b></p> <p>THE SUM OF:</p> <p>_____ DOLLARS</p> <p>AND _____ CENTS</p> <p>(\$ _____ ) PER CUBIC YARD</p>	20	CY	\$

ITEM DESCRIPTION & BID PRICE	EST. QTY*	UNIT	TOTAL COST
<p><b>ITEM 151: GRAVEL BORROW</b></p> <p>THE SUM OF: _____ DOLLARS</p> <p>AND _____ CENTS</p> <p>(\$ _____ ) PER <b>CUBIC YARD</b></p>	<b>215</b>	<b>CY</b>	\$
<p><b>ITEM 156: CRUSHED STONE</b></p> <p>THE SUM OF: _____ DOLLARS</p> <p>AND _____ CENTS</p> <p>(\$ _____ ) PER <b>TON</b></p>	<b>2</b>	<b>TON</b>	\$
<p><b>ITEM 204.3: GUTTER INLET – MUNICIPAL STANDARD</b></p> <p>THE SUM OF: _____ DOLLARS</p> <p>AND _____ CENTS</p> <p>(\$ _____ ) PER <b>EACH</b></p>	<b>1</b>	<b>EA</b>	\$
<p><b>ITEM 220.1: ADJUSTMENT OF EXISTING STRUCTURES (FRAMES AND GRATES OR COVERS)</b></p> <p>THE SUM OF: _____ DOLLARS</p> <p>AND _____ CENTS</p> <p>(\$ _____ ) PER <b>EACH</b></p>	<b>15</b>	<b>EA</b>	\$
<p><b>ITEM 220.21: STRUCTURE REBUILT</b></p> <p>THE SUM OF: _____ DOLLARS</p> <p>AND _____ CENTS</p> <p>(\$ _____ ) PER <b>FOOT</b></p>	<b>10</b>	<b>FT</b>	\$

ITEM DESCRIPTION & BID PRICE	EST. QTY*	UNIT	TOTAL COST
<p><b>ITEM 222.3: FRAME AND GRATE (OR COVER) MUNICIPAL STANDARD</b></p> <p>THE SUM OF:            _____ DOLLARS            AND _____ CENTS            (\$ _____ ) PER <b>EACH</b></p>	<b>1</b>	<b>EA</b>	\$
<p><b>ITEM 227.3: REMOVAL OF DRAINAGE STRUCTURE SEDIMENT</b></p> <p>THE SUM OF:            _____ DOLLARS            AND _____ CENTS            (\$ _____ ) PER <b>CUBIC YARD</b></p>	<b>15</b>	<b>CY</b>	\$
<p><b>ITEM 228.1: TRENCH DRAIN REMOVED AND RESET</b></p> <p>THE SUM OF:            _____ DOLLARS            AND _____ CENTS            (\$ _____ ) PER <b>EACH</b></p>	<b>1</b>	<b>EA</b>	\$
<p><b>ITEM 241.12: 12 INCH REINFORCED CONCRETE PIPE</b></p> <p>THE SUM OF:            _____ DOLLARS            AND _____ CENTS            (\$ _____ ) PER <b>FOOT</b></p>	<b>40</b>	<b>FT</b>	\$
<p><b>ITEM 357: GATE BOX</b></p> <p>THE SUM OF:            _____ DOLLARS            AND _____ CENTS            (\$ _____ ) PER <b>EACH</b></p>	<b>2</b>	<b>EA</b>	

ITEM DESCRIPTION & BID PRICE	EST. QTY*	UNIT	TOTAL COST
<p><b>ITEM 358: GATE BOX ADJUSTED</b></p> <p>THE SUM OF: _____ DOLLARS</p> <p>AND _____ CENTS</p> <p>(\$ _____ ) PER <b>EACH</b></p>	<b>15</b>	<b>EA</b>	\$
<p><b>ITEM 381: SERVICE BOX</b></p> <p>THE SUM OF: _____ DOLLARS</p> <p>AND _____ CENTS</p> <p>(\$ _____ ) PER <b>EACH</b></p>	<b>2</b>	<b>EA</b>	
<p><b>ITEM 381.3: SERVICE BOX ADJUSTED</b></p> <p>THE SUM OF: _____ DOLLARS</p> <p>AND _____ CENTS</p> <p>(\$ _____ ) PER <b>EACH</b></p>	<b>10</b>	<b>EA</b>	\$
<p><b>ITEM 402.1: DENSE GRADED CRUSHED STONE FOR SUB-BASE</b></p> <p>THE SUM OF: _____ DOLLARS</p> <p>AND _____ CENTS</p> <p>(\$ _____ ) PER <b>TON</b></p>	<b>55</b>	<b>TON</b>	\$
<p><b>ITEM 415.15: PAVEMENT MILLING</b></p> <p>THE SUM OF: _____ DOLLARS</p> <p>AND _____ CENTS</p> <p>(\$ _____ ) PER <b>SQUARE YARD</b></p>	<b>650</b>	<b>SY</b>	\$

ITEM DESCRIPTION & BID PRICE	EST. QTY*	UNIT	TOTAL COST
<p><b>ITEM 440: CALCIUM CHLORIDE FOR ROADWAY DUST CONTROL</b></p> <p>THE SUM OF: _____ DOLLARS</p> <p>AND _____ CENTS</p> <p>(\$ _____ ) PER <b>POUND</b></p>	<b>1,745</b>	<b>LB</b>	\$
<p><b>ITEM 443: WATER FOR ROADWAY DUST CONTROL</b></p> <p>THE SUM OF: _____ DOLLARS</p> <p>AND _____ CENTS</p> <p>(\$ _____ ) PER <b>MEGA-GALLON</b></p>	<b>5</b>	<b>MGL</b>	\$
<p><b>ITEM 450.23: SUPERPAVE SURFACE COURSE – 12.5 (SSC – 12.5)</b></p> <p>THE SUM OF: _____ DOLLARS</p> <p>AND _____ CENTS</p> <p>(\$ _____ ) PER <b>TON</b></p>	<b>115</b>	<b>TON</b>	\$
<p><b>ITEM 450.32: SUPERPAVE INTERMEDIATE COURSE – 19.0 (SIC – 19.0)</b></p> <p>THE SUM OF: _____ DOLLARS</p> <p>AND _____ CENTS</p> <p>(\$ _____ ) PER <b>TON</b></p>	<b>85</b>	<b>TON</b>	\$
<p><b>ITEM 451: HMA FOR PATCHING</b></p> <p>THE SUM OF: _____ DOLLARS</p> <p>AND _____ CENTS</p> <p>(\$ _____ ) PER <b>TON</b></p>	<b>5</b>	<b>TON</b>	\$



ITEM DESCRIPTION & BID PRICE	EST. QTY*	UNIT	TOTAL COST
<p><b>ITEM 472: ASPHALT MIXTURES FOR TEMPORARY WORK</b></p> <p>THE SUM OF:</p> <p>_____ DOLLARS</p> <p>AND _____ CENTS</p> <p>(\$ _____ ) PER <b>TON</b></p>	<b>10</b>	<b>TON</b>	\$
<p><b>ITEM 503: GRANITE CURB TYPE VA3 – STRAIGHT</b></p> <p>THE SUM OF:</p> <p>_____ DOLLARS</p> <p>AND _____ CENTS</p> <p>(\$ _____ ) PER <b>FOOT</b></p>	<b>15</b>	<b>FT</b>	\$
<p><b>ITEM 504: GRANITE CURB TYPE VA4 – STRAIGHT</b></p> <p>THE SUM OF:</p> <p>_____ DOLLARS</p> <p>AND _____ CENTS</p> <p>(\$ _____ ) PER <b>FOOT</b></p>	<b>470</b>	<b>FT</b>	\$
<p><b>ITEM 504.1: GRANITE CURB TYPE VA4 – CURVED</b></p> <p>THE SUM OF:</p> <p>_____ DOLLARS</p> <p>AND _____ CENTS</p> <p>(\$ _____ ) PER <b>FOOT</b></p>	<b>140</b>	<b>FT</b>	\$
<p><b>ITEM 509: GRANITE TRANSITION CURB FOR WHEELCHAIR RAMPS – STRAIGHT</b></p> <p>THE SUM OF:</p> <p>_____ DOLLARS</p> <p>AND _____ CENTS</p> <p>(\$ _____ ) PER <b>FOOT</b></p>	<b>110</b>	<b>FT</b>	\$

ITEM DESCRIPTION & BID PRICE	EST. QTY*	UNIT	TOTAL COST
<p><b>ITEM 509.1: GRANITE TRANSITION CURB FOR WHEELCHAIR RAMPS – CURVED</b></p> <p>THE SUM OF: _____ DOLLARS</p> <p>AND _____ CENTS</p> <p>(\$ _____ ) PER <b>FOOT</b></p>	<b>90</b>	<b>FT</b>	\$
<p><b>ITEM 697.1: SILT SACK</b></p> <p>THE SUM OF: _____ DOLLARS</p> <p>AND _____ CENTS</p> <p>(\$ _____ ) PER <b>EACH</b></p>	<b>7</b>	<b>EA</b>	\$
<p><b>ITEM 701: CEMENT CONCRETE SIDEWALK</b></p> <p>THE SUM OF: _____ DOLLARS</p> <p>AND _____ CENTS</p> <p>(\$ _____ ) PER <b>SQUARE YARD</b></p>	<b>305</b>	<b>SY</b>	\$
<p><b>ITEM 701.1: CEMENT CONCRETE SIDEWALK AT DRIVEWAYS</b></p> <p>THE SUM OF: _____ DOLLARS</p> <p>AND _____ CENTS</p> <p>(\$ _____ ) PER <b>SQUARE YARD</b></p>	<b>25</b>	<b>SY</b>	\$
<p><b>ITEM 701.2: CEMENT CONCRETE WHEELCHAIR RAMP</b></p> <p>THE SUM OF: _____ DOLLARS</p> <p>AND _____ CENTS</p> <p>(\$ _____ ) PER <b>SQUARE YARD</b></p>	<b>185</b>	<b>SY</b>	\$

ITEM DESCRIPTION & BID PRICE	EST. QTY*	UNIT	TOTAL COST
<p><b>ITEM 701.21: DETECTABLE WARNING PANEL</b></p> <p>THE SUM OF:            _____ DOLLARS            AND _____ CENTS            (\$ _____ ) PER <b>EACH</b></p>	<b>14</b>	<b>EA</b>	\$
<p><b>ITEM 703: HOT MIX ASPHALT DRIVEWAY</b></p> <p>THE SUM OF:            _____ DOLLARS            AND _____ CENTS            (\$ _____ ) PER <b>TON</b></p>	<b>5</b>	<b>TON</b>	\$
<p><b>ITEM 707.8: STEEL BOLLARD</b></p> <p>THE SUM OF:            _____ DOLLARS            AND _____ CENTS            (\$ _____ ) PER <b>EACH</b></p>	<b>5</b>	<b>EA</b>	\$
<p><b>ITEM 711: BOUND REMOVED AND RESET</b></p> <p>THE SUM OF:            _____ DOLLARS            AND _____ CENTS            (\$ _____ ) PER <b>EACH</b></p>	<b>2</b>	<b>EA</b>	\$
<p><b>ITEM 751: LOAM BORROW</b></p> <p>THE SUM OF:            _____ DOLLARS            AND _____ CENTS            (\$ _____ ) PER <b>CUBIC YARD</b></p>	<b>35</b>	<b>CY</b>	\$

ITEM DESCRIPTION & BID PRICE	EST. QTY*	UNIT	TOTAL COST
<b>ITEM 765: SEEDING</b>  THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____ ) PER <b>SQUARE YARD</b>	<b>150</b>	<b>SY</b>	\$
<b>ITEM 827.33: ABUTMENT WARNING SIGN (H1-3) – ALUMINUM PANEL (TYPE A)</b>  THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____ ) PER <b>EACH</b>	<b>4</b>	<b>EA</b>	\$
<b>ITEM 832: WARNING-REGULATORY AND ROUTE MARKER - ALUMINUM PANEL (TYPE A)</b>  THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____ ) PER <b>SQUARE FOOT</b>	<b>110</b>	<b>SF</b>	\$
<b>ITEM 847.01: SIGN POST W/ BREAKAWAY ANCHOR/ ASSEMBLY</b>  THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____ ) PER <b>EACH</b>	<b>13</b>	<b>EA</b>	\$
<b>ITEM 852.01: TEMPORARY TRAFFIC CONTROL</b>  THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____ ) PER <b>LUMP SUM</b>	<b>1</b>	<b>LS</b>	\$

ITEM DESCRIPTION & BID PRICE	EST. QTY*	UNIT	TOTAL COST
<b>ITEM 856: ARROW BOARD</b>  THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____ ) PER <b>DAY</b>	<b>44</b>	<b>DAY</b>	\$
<b>ITEM 856.12: PORTABLE CHANGEABLE MESSAGE SIGN</b>  THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____ ) PER <b>DAY</b>	<b>88</b>	<b>DAY</b>	\$
<b>ITEM 866.112: 12 INCH REFLECTORIZED WHITE LINE (THERMOPLASTIC)</b>  THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____ ) PER <b>FOOT</b>	<b>900</b>	<b>FT</b>	\$
<b>ITEM 874: STREET NAME SIGN</b>  THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____ ) PER <b>EACH</b>	<b>4</b>	<b>EA</b>	\$
<b>ITEM 874.45: MISCELLANEOUS SIGN REMOVED AND RESET</b>  THE SUM OF: _____ DOLLARS AND _____ CENTS (\$ _____ ) PER <b>EACH</b>	<b>2</b>	<b>EA</b>	\$

ITEM DESCRIPTION & BID PRICE	EST. QTY*	UNIT	TOTAL COST
<p><b>ITEM 874.51: MISCELLANEOUS SIGNS REMOVED AND DISCARDED</b></p> <p>THE SUM OF:            _____ DOLLARS            AND _____ CENTS            (\$ _____ ) PER <b>LUMP SUM</b></p>	<b>1</b>	<b>LS</b>	\$
<p><b>ITEM 999.01: MISCELLANEOUS WORK ALLOWANCE</b></p> <p>THE SUM OF:            _____ <i>Fifty-One Thousand One Hundred</i> DOLLARS            AND _____ <i>Zero</i> CENTS            (\$ _____ <i>51,100.00</i> ) PER <b>ALLOWANCE</b></p>	<b>1</b>	<b>ALW</b>	\$ 51,100.00
<p><b>ITEM 999.02: ALLOWANCE FOR PAYMENT OF TRAFFIC CONTROL OFFICERS</b></p> <p>THE SUM OF:            _____ <i>Thirty Thousand</i> DOLLARS            AND _____ <i>Zero</i> CENTS            (\$ _____ <i>30,000.00</i> ) PER <b>ALLOWANCE</b></p>	<b>1</b>	<b>ALW</b>	\$ 30,000.00
<p><b>TOTAL BID PRICE:</b></p> <p>_____ DOLLARS</p> <p style="text-align: center;">AND _____ CENTS</p> <p>(\$ _____ )</p> <p style="text-align: center;"><i>Amount in Figures</i></p>			

## CITY OF NEWTON

### GENERAL REQUIREMENTS

#### **MEASUREMENT AND PAYMENT**

##### PART 1 GENERAL

###### 1.01 SCOPE

- A. The purpose of this section is to define the basis of measurement and payment for the unit price or lump sum items listed in these Contract Documents.
- B. Section 9.00 of the Commonwealth of Massachusetts Highway Department (MassDOT) Standard Specifications for Highways and Bridges 1988 and the English Supplemental Specifications, dated July 1, 2015 are hereby included in its entirety.

###### 1.02 PAYMENT ITEMS

- A. Work Items of this Project are referenced with Item Numbers and Item Descriptions similar to those currently in use by the MassDOT, Highway Division.

###### 1.03 BASIS OF MEASUREMENT AND PAYMENT

- A. Method of Measurement and Basis of Payment for Work Items shall be as called for under the appropriate section of the MassDOT Standard Specifications, unless modified in the Special Provisions and the Construction Specifications.

###### 1.04 UNIT PRICES

- A. Payment will be computed on the basis of the unit price bid for each Item and the quantity of units completed. Unit prices are to include cost of all necessary materials, labor, equipment, overhead, profit and other applicable costs for items installed complete and accepted by the Engineer. No Payments will be made for the purchase or stockpile of materials or incidentals to the completed items. (See Par. 1.06, this Section.)
- B. The Owner reserves the right to increase or decrease the scope of the Contract work by 25% of the original scope.

###### 1.05 LUMP SUM PRICES

- A. Payment will be computed on the basis of the percentage of work completed on each item in the contract BID as determined by the Engineer. Lump sum prices are to include the cost of all necessary materials, labor, equipment, overhead, profit and other applicable costs for items installed complete and accepted by the Engineer. No Payments will be made for the purchase or stockpile of materials or incidentals to the completed items. (See Par. 1.06, this Section.)
- B. The Contractor's breakdown of the lump sum bid will be used only as a guide to determine the percentage of completion.

###### 1.06 PRICES INCLUDE

- A. The prices stated in the Proposal include full compensation not only for furnishing all the labor, equipment and material needed for, and for performing the work \ contemplated by, the Contract, but also for assuming all risks of any kind for expenses arising to facilitate the work in a timely manner and all items and incidentals included in the Contract Documents.
- B. The Owner shall pay and the Contractor shall receive the prices stipulated in the BID made a part hereof as full compensation for everything performed and for all risks and obligations undertaken by the Contractor under and as required by the Contract.
- C. The prices for those Items which involve excavation shall include compensation for disposal of surplus excavated material and handling water.
- D. In all Items involving excavation, the price shall be based on doing the entire excavation in earth. Where rock is excavated, the price, therefore, shall be in addition to the cost of excavating earth and no deduction will be made in the amount for earth excavation.

## 1.07 PAYMENT

- A. In general, payment will be made for all Contract work satisfactorily completed through the end of the previous month. The payment will include any additional work which has been completed and approved and change order work agreed upon by the Owner and Contractor which has been completed and approved.
- B. Each application for payment will indicate the total of a minimum percent retainage, held by the Owner on the total of all work completed under the contract and approved for payment to-date.
- C. Monthly applications for payment may also indicate reduction or increase of the total Contract price when an approved change order results in a net reduction or net increase in the cost and quantity of work to be performed under the Contract.
- D. Special billings and charges against the Contract as credit or payment to the Owner, that are not for change order work, may be subtracted from monies due on any monthly application for payment but shall not serve to reduce the total Contract price.
- E. Final payment for Work governed by unit prices will be made on the basis of the actual measurements and quantities accepted by the Engineer multiplied by the unit price for work which is incorporated in or made necessary by the Work.

## ***FIELD ENGINEERING***

### **PART 1 GENERAL**

#### 1.01 SECTION INCLUDES

- A. Survey work and other field engineering responsibilities of the Contractor.

#### 1.02 REQUIREMENTS

- A. The Contractor shall be responsible for field survey, layout of the work, and the establishing of lines and grades for his use.
- B. Establish elevations, lines, levels, reference marks, batter boards, etc., required during the progress of the Work. Verify such marks by instrument to confirm accuracy.
- C. Locate and protect established survey control and reference points.
- D. Make, check, and be responsible for all measurements and dimensions necessary for the proper construction of the Work.
- E. The Engineer will be permitted to check the lines, elevations, reference marks, batter boards, etc., set by the Contractor. The Contractor shall correct any errors found in lines, elevations, reference marks, batter boards, etc. Such a check shall not be construed as approval of the Contractor's work and shall not relieve or diminish the responsibility of the Contractor for the accurate construction and completion of the Work.
- F. Control datum for survey shall be a relative one per street established by the Contractor.
- G. Verify location and reset (if needed) street right-of-way bounds and markers.
- H. The Contractor is to make a video tape and/or photographic record of all existing sideline conditions, prior to the commencement of construction activities, and/or as may be required as the construction activities progress, for the purpose of documenting all decrepit, and/or extraordinary points of concern. All video and picture making shall be done on foot and shall not be 'shot' from a vehicle. This video record shall be made by the Contractor and a copy, or a secondary video tape, shall be delivered to the Engineer. A representative from the Engineering Division shall present at the time of the recording.

#### 1.03 QUALITY ASSURANCE

- A. The Contractor shall employ a Civil Engineer or Land Surveyor registered in the State of Massachusetts, acceptable to the Owner.
- B. The Contractor shall submit a certificate signed by the Contractor's Engineer or Land Surveyor stating elevations and locations of the Work are in conformance with the Contract Documents.



## ***PROJECT MEETINGS***

### **PART 1 GENERAL**

#### **1.01 SECTION INCLUDES**

- A. Administrative and procedural requirements for project meetings.

#### **1.02 PRECONSTRUCTION CONFERENCE**

- A. Pre-bid conference will be held for this project. Attendance at this meeting is optional.
- B. The pre-construction conference will be scheduled and administered within 14 calendar days after the dated "Notice to Proceed." The Contractor shall be prepared to address such topics as understanding of the Contract Documents, Federal/State/Local requirements, projected construction schedules, major personnel, critical work areas, construction facilities and shop drawing/certificates of compliance submittals.

#### **1.03 PROGRESS MEETINGS**

- A. The Engineer will schedule and administer progress meetings and specially called meetings throughout the duration of the Work at period intervals. Weekly progress meeting are expected in the initial stages of the project. Meetings can later be scheduled to be Bi-Weekly as determined by the Engineer.
- B. The time and location of such meetings shall be designated by the Engineer and shall be convenient for all parties involved.
- C. The Engineer will prepare agenda with copies for participants, preside at meetings, record minutes, and distribute copies.

## ***SUBMITTALS***

### **PART 1 GENERAL**

#### **1.01 SECTION INCLUDES**

- A. Requirements for submission of schedules and shop drawings.

#### **1.02 PROGRESS SCHEDULE**

- A. Within 14 calendar days after execution of the Contract Documents, the Contractor shall submit to the Engineer for review a construction progress schedule conforming to requirements specified. This schedule should show the proposed dates of commencement and completion of each of the various subdivisions of work required under this Contract and the anticipated monthly percentage of completion, based on the total contract price. The Contractor shall be responsible for updating, and/or revising, this schedule whenever directed by the Engineer throughout the duration of the Contract. The schedule shall also include a Traffic Management Plan to be coordinated with City Engineering and Newton Police Department for each phase and location of work to be constructed under this contract.
- B. Special attention is directed to the requirement that the Contractor shall start the Work, as specified under this Contract, no later than 30 calendar days after the execution of the Contract Documents, unless otherwise authorized by the Owner. The Contractor shall comply with all pre-construction requirements as specified. The Owner reserves the right to delay the commencement of the Work or any part thereof, if the specified requirements as determined by the Engineer have not been satisfied. The Owner further reserves the right to limit or, delay construction, or certain activities thereof, in certain areas of the Contract should the Owner deem it to be in the public's best interest and/or safety to do so.
- C. The Contractor shall contact the appropriate city authorities concerning any public or semi-public events that may occur during the construction period that may affect construction. The Contractor alone shall be responsible for arranging his construction sequence to conform to any restrictions these events may impose. No claims for extras will be allowed because of any delay, extra materials handling, extra excavation, etc. caused by the imposed restrictions. However, additional time may be granted for completion of the work to compensate for delays caused by said restrictions.

### 1.03 SHOP DRAWINGS

- A. Submit six (6) copies of shop and working drawings of concrete reinforcement, structural details, piping layout, wiring, materials fabricated especially for the Contract, and materials and equipment for which such drawings are specifically requested.
- B. A maximum of two (2) submittals of each shop drawing will be reviewed by the Engineer. If more submittals are required due to the Contractor's neglect or failure to fulfill the requirements of the Contract plans and/or specifications, or to make corrections or modifications required by the Engineer in the review of the first two submittals, the Engineer will review the submittal and the Contractor will be responsible for the cost of the review, as determined by the Owner based on the Engineer's documentation of time and rates for additional services established in the Engineering Agreement between the Owner and the Engineer.
- C. If re-submittals on shop and working drawings are required, the Engineer will retain three (3) copies and three (3) copies will be returned to the Contractor. When re-submittals are returned to the Engineer, six copies of the complete submittal shall again be required.
- D. Such drawings shall show the principal dimensions, weight, structural and operating features, space required, clearances, type and/or brand of finish or shop coat, grease fittings, etc., depending on the subject of the drawing. When the dimensions are of particular importance, or when specified, the drawings shall be certified by the manufacturer or fabricator as correct for the Contract. The Contractor shall also be required to certify on the submitted drawings or catalog cuts that the equipment or the assembly are accepted by him and in conformance with the Plans and Specifications.
- E. When so specified or if considered by the Engineer to be acceptable, manufacturer's specifications, catalog data, descriptive matter, illustrations, etc., may be submitted in place of shop and working drawings.
- F. The Contractor shall be responsible for the prompt and timely submittal of all shop and working drawings to eliminate delay to the Work due to the absence of such drawings. All shop and working drawings must be submitted to the Engineer within 30 calendar days prior to incorporation into the Work, unless otherwise permitted by the Engineer. Prior to the submittal of any shop drawings, the Contractor shall submit a schedule of proposed shop drawing transmittals. The schedule shall identify the subject matter of each transmittal, the corresponding specification section number and the proposed date of submission. Prior to and during the progress of the Work the schedule shall be revised and resubmitted as requested by the Engineer.
- G. No material or equipment shall be purchased or fabricated for the Contract until the required shop and working drawings have been submitted as hereinabove provided and reviewed for conformance to the Contract requirements. All such materials and equipment and the work involved in their installation or incorporation into the Work shall then be as shown in and represented by said drawings.
- H. Until the necessary review has been made, the Contractor shall not proceed with any portion of the Work for which review is required.
- I. All shop and working drawings shall be submitted to the Engineer by and/or through the Contractor, who shall be responsible for obtaining shop and working drawings from his subcontractors and returning reviewed drawings to them. All drawings shall be clearly marked with the names of the Owner, Contractor, and building, equipment, or structure to which the drawing applies, and shall be suitably numbered. Submitted shop drawings shall be accompanied by a multi-part letter of transmittal provided by the Engineer, and completed by the Contractor as directed by the Engineer.
- J. Only drawings which have been checked and corrected by the fabricator should be submitted to the Contractor by his subcontractors and vendors. Prior to submitting drawings to the Engineer, the Contractor shall check thoroughly all such drawings to satisfy himself that the subject matter thereof conforms to the Drawings and Specifications in all respects. All drawings which are correct shall be marked with the date, checker's name, and indication of the Contractor's approval, and then shall be submitted to the Engineer; other drawings shall be returned for correction.
- K. If a shop drawing shows any deviation from the Contract requirements, the Contractor shall make specific mention of the deviations in his letter of transmittal.
- L. The review of shop and working drawings by the Engineer will be general only, and nothing contained in this Section shall relieve, diminish or alter in any respect the responsibilities of the Contractor under the Contract Documents and in particular, the specific responsibility of the Contractor for details of design and dimensions necessary for proper fitting and construction of the work as required by the Contract and for achieving the result and performance as specified.

- M. Should the Contractor submit equipment that requires modifications to the structures, piping, electrical conduit, wires, appurtenances, or layouts etc., either existing or as detailed on the Drawings, he shall also submit details of the proposed modifications. If such equipment and modifications are accepted, the Contractor, at no additional cost to the Owner, shall do the work necessary to make such modifications.
- N. The Contractor shall furnish additional copies of shop drawings or catalog cuts when so requested.

#### 1.04 JOB-MIX FORMULA

- A. Work shall not begin on any Newton project nor shall any mixture be accepted until the Contractor has submitted to the Engineer a specific job-mix formula for the particular uniform combination of materials and sources of supply to be used on each project in conformance with the requirements of Section M3 of MassDOT's Construction Specifications. The job-mix formula shall be submitted in writing by the Contractor to the City at least 30 days prior to the start of paving operations.

### ***QUALITY CONTROL***

#### **PART 1 GENERAL**

##### 1.01 SECTION INCLUDES

- A. Requirements for Contractor's quality control of products, suppliers, manufacturers, services, site conditions, and workmanship, to produce work of the specified quality.

##### 1.02 QUALITY ASSURANCE/CONTROL OF INSTALLATION

- A. Comply fully with manufacturers' instructions, including each step in sequence.
- B. Should manufacturers' instructions conflict with Contract Documents, request clarification from Engineer before proceeding.
- C. Comply with specified standards as a minimum quality for the Work except when more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.
- D. Perform work by persons qualified to produce workmanship of specified quality.
- E. Secure Products in place with positive anchorage devices designed and sized to withstand stresses, vibration, physical distortion or disfigurement.

##### 1.03 FIELD SAMPLES

- A. Install field samples at the site as required by individual specifications sections for review.
- B. Acceptable samples represent a quality level for the Work.
- C. Where field sample is specified to be removed, clear area only after field sample has been accepted by the Engineer.

##### 1.04 CERTIFIED WELDERS

- A. Structural welds shall be made only by operators who have been qualified by tests, as prescribed in the "Standard Qualification Procedure" of the American Welders Society, to perform the type of work required.
- B. Pipe welds shall be made only by operators who have been qualified by the National Certified Pipe Welding Bureau and each operator's qualification record shall be submitted to the Engineer before any work is performed.
- C. Shop welding shall be in accordance with the "Code for Welding in Building Construction".

### ***TESTING LABORATORY SERVICES***

#### **PART 1 GENERAL**

##### 1.01 SECTION INCLUDES

- A. Qualification, duties and responsibilities of testing laboratories. Also, coordination and scheduling are responsibilities of the Contractor.
- B. Related Sections
  - 1. Materials and Equipment

## 1.02 PAYMENT PROCEDURES

- A. Initial Testing: Unless otherwise specified herein, the Owner will pay for additional initial testing services required by the Engineer.
- B. Retesting: When initial tests indicate noncompliance with the Contract Documents, subsequent retesting occasioned by the noncompliance shall be performed by the same testing agency, and costs thereof will be deducted by the Owner from the Contract Sum.
- C. Contractor's Testing: Inspecting and testing performed exclusively for the Contractor's convenience or as required of him by the technical specifications shall be the sole responsibility of the Contractor.

## 1.03 REFERENCES

- A. American Society for Testing and Materials (ASTM)
  - 1. E-329-90, Use in the Evaluation of Testing and Inspection Agencies as Used in Construction.

## 1.04 REQUIREMENTS

- A. Asphalt material will only be accepted by the City if the test results from acceptance samples obtained at the production plant and from the compacted pavement indicate conformance to the approved job-mix formula and the quality limits specified in Section M3 of MassDOT's Construction Specifications.
- B. Work included:
  - 1. Cooperate with the Owner's selected testing agency and all others responsible or testing and inspecting the Work.
  - 2. Provide other testing and inspecting as specified to be furnished by the Contractor in this Section and/or elsewhere in the Contract Documents.
  - 3. Where no testing requirements are described, but the Owner directs testing, the Contractor shall provide testing under the requirements of this Specification.

## 1.05 QUALITY ASSURANCE

- A. The testing laboratory will be qualified to the Owner's approval in accordance with ASTM E329-90.
- B. Regulatory requirements
  - 1. Testing, when required, will be in accordance with all pertinent codes, regulations, and with selected standards of the American Society for Testing and Materials.
  - 2. Regulatory Requirement Inspections and tests required by codes or ordinances, or by a plan approved authority, and which are made by a legally constituted authority, shall be the responsibility of and shall be paid for by the Contractor, unless otherwise provided in the Contract Documents.

## 1.06 DELIVERY, STORAGE, AND HANDLING

- A. Comply with pertinent provisions of the Materials and Equipment section.
- B. Promptly process and distribute, to the Engineer, required copies of test reports and instructions to assure necessary retesting and replacement of materials with the least possible delay in progress of the Work.

## 1.07 SCHEDULING

- A. Establishing schedule
  - 1. By advance discussion with the testing laboratory selected by the Owner, determine the time required for the laboratory to perform its tests and to issue each of its findings.
  - 2. Provide all required time within the construction schedule.
  - 3. Coordinate testing activity with the appropriate testing laboratory.
- B. Revising schedule
  - 1. When changes of construction schedule are necessary during construction, coordinate all such changes with the testing laboratory as required.
- C. Adherence to schedule
  - 1. When the testing laboratory is ready to test according to the established schedule, but is prevented from testing or taking specimens due to incompleteness of the Work, all extra charges for testing attributable to the delay may be back-charged to the Contractor and shall not be borne by the Owner.

## PART 3 EXECUTION

### 3.01 FIELD QUALITY CONTROL

- A. Representatives of the testing laboratory shall have access to the Work at all times and at all locations where the Work is in progress. Provide facilities for such access to enable the laboratory to perform its functions properly.
- B. All specimens and samples for testing, unless otherwise provided in the Contract Documents, shall be taken by the testing personnel. All sampling equipment and personnel will be provided by the testing laboratory. All deliveries of specimens and samples to the testing laboratory will be performed by the testing laboratory.
- C. All work constructed as a deviation from the Contract Documents shall be approved prior by the Engineer in writing. All subject work shall be documented and the submission of required as-builts will be the responsibility of the Contractor.

## ***TEMPORARY UTILITIES***

### PART 1 GENERAL

#### 1.01 SECTION INCLUDES

- A. Requirements for temporary utilities required during construction.

#### 1.02 GENERAL REQUIREMENTS

- A. The Contractor is responsible for payment of all costs associated with the installation and operation of all temporary utilities necessary for the completion of the work. The Contractor shall arrange with the Engineer and Owner methods of determining monthly utility costs for Temporary Utilities prior to connection of any temporary systems. The Contractor shall pay the Owner on a monthly basis for all temporary utility costs. The Temporary Utilities to be paid by the Contractor include, but are not limited to the following: Electricity, Water, Sanitary, Heating, Ventilation, Plumbing and other services required to complete the work.

#### 1.03 TEMPORARY SANITARY FACILITIES

- A. Provide adequate sanitary facilities for the use of those employed on the Work. Sanitary facilities shall be made available when the first employees arrive on the site of the Work, be properly secluded from public observation, and be maintained during the progress of the Work in suitable numbers. The location for the placement of sanitary facilities shall be approved in writing by the Engineer.
- B. Maintain sanitary facilities in an orderly and sanitary condition at all times and enforce their use. Rigorously prohibit the committing of nuisances on the site of the Work, on the lands of the Owner, or any adjacent property.

## ***TEMPORARY CONTROLS***

### PART 1 GENERAL

#### 1.01 SECTION INCLUDES

- A. Requirements for cleaning, maintenance of the project site, barriers and fences required during construction.

#### 1.02 CLEANING DURING CONSTRUCTION

- A. Contractor shall perform clean-up operations during construction as herein specified, or as specified elsewhere within the Contract Documents.
  - 1. Control accumulation of waste materials and rubbish; promptly dispose of off-site. Bear all costs, including fees resulting from disposal.
  - 2. Maintain project in accordance with all local, State and Federal Regulatory Requirements.
  - 3. Store volatile wastes in covered metal containers, and remove from premises.
  - 4. Prevent accumulation of wastes that create hazardous conditions.
  - 5. Provide adequate ventilation during use of volatile or noxious substances
- B. Conduct cleaning and disposal operations to comply with local ordinances and anti-pollution laws.



1. Do not burn or bury rubbish and waste materials on site.
2. Do not dispose or volatile wastes such as mineral spirits, oil, or paint thinner in storm or sanitary drains.
3. Do not dispose of wastes into streams or waterways.
4. Use only those materials which will not create hazards to health or property and which will not damage surfaces.
5. Execute cleaning to ensure that the buildings, the sites, and adjacent properties are maintained free from accumulations of waste materials and rubbish and wind-blown debris, resulting from construction operations.
6. Provide on-site containers for collection of waste materials, debris, and rubbish.
7. Remove waste materials, debris, and rubbish promptly from the site and dispose of at legal disposal areas off the construction site.
8. During its progress, the work and the adjacent areas affected thereby shall be kept cleaned up and all rubbish, surplus materials, and unneeded construction equipment shall be removed and all damage repaired so that the public and property owners will be inconvenienced as little as possible.
9. Where material or debris has washed or flowed into or been placed in existing watercourses, ditches, gutters, drains, pipes, structures, work done under this contract, or elsewhere during the course of the Contractor's operations, such material or debris shall be entirely removed and satisfactorily disposed of during the progress of the work, and the ditches, channels, drains, pipes, structures, and work, etc. shall, upon completion of the work, be left in a clean and neat condition.

#### 1.03 DUST CONTROL

- A. Provide adequate means for the purpose of preventing dust caused by construction operations throughout the period of the construction contract.
- B. This provision does not supersede any specific requirements for methods of construction or applicable general conditions or performance obligations of the Contractor.
- C. Adequate dust control shall be applied as, and when, directed by the Engineer. No additional compensation will be made for such work and shall be considered to be incidental to the Contract.

#### 1.04 EROSION AND SEDIMENT CONTROL

- A. Plan and execute construction by methods to control surface drainage from cuts and fills, from borrow and waste disposal areas. Prevent erosion and sedimentation.
- B. Minimize amount of bare soil exposed at one time.
- C. Provide temporary measures such as berms, dikes, and drains, to prevent water flow.
- D. Periodically inspect earthwork to detect evidence of erosion and sedimentation; promptly apply corrective measures.
- E. Construct sediment control devices for discharge from dewatering trenches.
- F. Construct all sedimentation control devices shown on the plans.

#### 1.05 NOISE CONTROL

- A. Develop and maintain a noise-abatement program and enforce strict discipline over all personnel to keep noise to a minimum.
- B. Execute construction work by methods and by use of equipment which will reduce excess noise.
  1. Equip air compressors with Silencers, and power equipment with mufflers.
  2. Manage vehicular traffic and scheduling to reduce noise.

#### 1.06 POLLUTION CONTROL

- A. Special care shall be taken to prevent contamination or muddying up or interfering in any way with the stream flows, if any along the line of work. No waste matter of any kind will be allowed to discharge into the stream flows or impounded water of any pools or other bodies of water.

#### 1.07 SURFACE WATER CONTROL

- A. Take all precautions to prevent damage to the work or equipment by high waters or by storms. The Engineer with the approval of the Owner may prohibit the carrying out of any work at any time when in his judgment, high water or storm conditions are unfavorable or not suitable, or at any time, regardless of the weather,

- when proper precautions are not being taken to safeguard previously constructed work or work in progress.
- B. In case of damage caused by the failure of the Contractor to take adequate precautions, the Contractor shall repair or replace equipment damaged and shall make such repairs or rebuild such parts of the damaged work, as the Engineer may require, at no additional expense to the Owner.

#### 1.08 BARRIERS AND ENCLOSURES

##### A. Fences and Barricades

1. Provide and maintain temporary fences, barriers, lights, guardrails, and barricades as indicated in the Contract Documents, or as necessary to secure the Work and adjacent property, and protect persons and property.
2. Obtain necessary approvals and permits and provide temporary expedients as necessary to accommodate tasks requiring items mentioned herein.

##### B. Protection of Trees

1. The Contractor shall notify the Tree Warden before commencing work within the drip line of any Tree.
2. If, in the opinion of the Engineer or Tree Warden, and so directed by either, the Contractor shall be required to provide adequate and satisfactory tree protection (either trunk protection or drip line protection, or both) as directed. No additional compensation will be made for such protection and shall be considered to be incidental to the Contract.
3. The Contractor shall take care not to harm trees along the sides of roads or within the existing facility in which the construction work is to be done or trees on adjacent lands except as indicated on the drawings or with the written permission of the Owner and any other owner of the trees involved. Care shall be taken not to cut tree roots so as to harm the growth of trees to remain.
4. If, in the opinion of the Engineer or Tree Warden, any trees damaged during construction can be repaired, the Contractor shall satisfactorily repair same at no further cost to the Owner.
5. If, in the opinion of the Engineer or Tree Warden, any tree damaged during construction cannot be repaired and should be removed, the Contractor shall satisfactorily remove and replace, with a species specified by and at the direction of the City Tree Warden, same at no further cost to the Owner.

### ***TRAFFIC REGULATIONS***

#### **PART 1 GENERAL**

##### 1.01 SECTION INCLUDES

- A. Requirements for traffic control for the duration of the Contract.

##### 1.02 REFERENCES

- A. Manual of Uniform Traffic Control Devices (MUTCD) latest edition, including published revisions; Specifications for Temporary Traffic Control.

##### 1.03 PERFORMANCE REQUIREMENTS

- A. The Contractor shall prepare and submit to the Engineer a proposed work schedule which complies with the plans and specifications. No work shall start until the Engineer's approval of the schedule is received.
- B. The Contractor shall have the sole responsibility for the maintenance and protection of traffic.
- C. No construction will be permitted within 300 feet of a school, day care center, or day camp when children are either arriving or departing the facility. The actual hours involved will be obtained by the Contractor from the respective facility.
- D. An authorized representative of the Contractor shall be available on a 24-hour basis for the duration of the Contract for the purpose of correcting construction related impediments or hazards. This contact shall be responsible for making correction within a timely manner. The contact information shall be supplied with the rest of the required submittals.

##### 1.04 SUBMIT TRAFFIC PLANS

- A. In accordance with the Submittals section, submit a traffic plan delineating requirement of this section, the Contract Drawings, and the City of Newton.
- B. Traffic control plans shall detail all typical, and specific, work zones and detours for each roadway and construction activity for the project to complete the work as listed in the Contract Documents and Limits of Work, as well as the planned accessible pedestrian route through, or adjacent to, the work zone.

#### 1.05 SITE CONDITIONS

- A. Replace at no cost to the Owner pavement markings, legends and lane arrows removed or damaged by the construction operation that are not within the Limits of Work.
- B. Restore temporary detours to original condition.
- C. Replace traffic signal loops damaged during construction **within 72 hours**.

#### 1.06 SCHEDULING

- A. The Contractor shall minimize the construction impacts to the traveling public and abutting property owners by limiting the extent of roadway excavation and requiring the restoration of a weather-tight pavement surface as stipulated below. All proposed underground installations (utilities, drainage, sewer, etc.) must be in place prior to the beginning of roadway excavation.
- B. The Owner reserves the right to alter the lengths of excavation and other operations in order to ensure the safety of the traveling public and abutting property owners.

### PART 2 PRODUCTS

#### 2.01 TRAFFIC CONTROL DEVICES

- A. All Traffic Control Devices shall be in accordance with the MUTCD and maintained as such. All Devices shall also meet and be maintained in compliance with the Specifications,

### PART 3 EXECUTION

#### 3.01 INSTALLATION OF TRAFFIC CONTROL DEVICES

- A. Installations shall be in accordance with all requirements and standards as specified in the Manual on Uniform Traffic Control Devices (MUTCD) and shall be the responsibility of the Contractor to install and maintain as directed by the Engineer.

## ***MATERIALS AND EQUIPMENT***

### PART 1 GENERAL

#### 1.01 SECTION INCLUDES

- A. Requirements for delivery, storage, handling and installation of systems, materials, manufactured units, equipment, components, and accessories used in the work.

#### 1.02 DELIVERY

- A. Refer to Specifications' Sections for requirements pertaining to delivery and handling of materials and equipment.
- B. Transport products by methods to avoid product damage; deliver in undamaged condition in manufacturers' unopened containers or packaging, dry.
- C. Provide equipment and personnel to handle products by methods to prevent soiling or damage.
- D. Promptly inspect shipments to assure that products comply with requirements, that quantities are correct, and products are undamaged.

#### 1.03 STORAGE AND PROTECTION

- A. Refer to Specifications' Sections for requirements pertaining to storage and protection of materials and equipment.
- B. Store products in accordance with manufacturers' instruction, with seals and labels intact and legible. Store sensitive products in weather tight enclosures; maintain within temperature and humidity ranges required by



manufacturers' instructions.

- C. For exterior storage of fabricated products, place on sloped supports above ground. Cover products subject to deterioration with impervious sheet covering; provide ventilation to avoid condensation.
- D. Store loose granular materials on solid surfaces in a well-drained area; prevent mixing with foreign matter. Loose material shall also be protected in accordance with Erosion Control specifications.
- E. Arrange storage to provide access for inspection. Periodically inspect to assure that products are undamaged, and are maintained under required conditions.
- F. Materials stored and location of storage shall be approved by the Engineer prior to delivery.

#### 1.04 INSTALLATION STANDARDS

- A. Comply with Specifications and referenced standards as minimum requirements.
- B. Components required to be supplied in quantity within a Specification Section shall be the same, and shall be interchangeable.
- C. Do not use materials and equipment removed from existing structures, except as specifically required, or allowed, by the Contract Documents.
- D. Perform work by persons qualified to produce workmanship of specified quality.
- E. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, and racking.
- F. When work is specified to comply with manufacturers' instructions, submit copies as specified in the Submittals section, distribute copies to persons involved, and maintain one set in field office.
- G. Perform work in accordance with details of instructions and specified requirements.

### ***MAINTENANCE***

#### **PART 1 GENERAL**

##### 1.01 SECTION INCLUDES

- A. Procedures for maintaining work completed under this Contract.

##### 1.02 MAINTENANCE PERIOD

- A. The general maintenance period for all construction or materials under this Contract shall be one (1) year subsequent to the date of the acceptance of the work by the Owner, or as provided by other sections of this Specification.
- B. If the Owner puts any structure or equipment to use prior to acceptance of all work under the Contract, the maintenance period for such structures or equipment shall be calculated from the time use begins.
- C. Contractor agrees to replace the material which does not conform to the Contract requirements, and to repair any damage of material or work without cost to the Owner, to the satisfaction of Engineer, in conformance with Contract Documents provided orders for replacement and/or repairs are received in writing by the Contractor within the one year period.
- D. This Section shall in no way limit the duration of the Contractor's responsibility for the correction of any defect due to workmanship or materials provided by the Contractor which are not in compliance with the Contract Documents.

##### 1.03 ABUSE OF WORK

- A. Contractor is not obligated to perform work of replacement or repair that he may prove is required because of abuse by parties other than the Contractor, after the date the Owner puts to continuous use the work requiring replacements or repair, or after date the Owner has approved the Certificate of Completion.

##### 1.04 EMERGENCY REPAIRS

- A. If the Owner deems necessary, the Owner shall order replacement or repairs be undertaken within 24 hours.
- B. If the Contractor delays or fails to make the ordered replacement or repairs within the time specified, the Owner shall have the right to make such replacements or repairs and the expense shall be deducted from moneys due the Contractor, or moneys of the Contractor retained by the Owner.

**END OF SECTION**

## **CITY OF NEWTON**

### **SCOPE OF WORK**

The work under this Contract consists of furnishing all necessary labor, materials and equipment required for the construction of curb extensions (bump outs) at the Allen Ave/Plainfield St and the Allen Ave/Pine Ridge Rd intersections and the construction of a raised intersection at the Beethoven Ave/Puritan Rd intersection. The general work of the contract includes removal and immediate off-site disposal of bituminous concrete by milling and resurfacing the top course of SUPERPAVE asphalt or excavation and full depth construction consisting of a gravel subbase, as needed, and two courses of SUPERPAVE asphalt. The project also includes, reconstruction of sidewalks, installation of granite curbing, construction of ADA compliant curb ramps, reconstruction of a section of an existing driveway, minor drainage improvements, adjustment to castings, loam and seed, application of pavement markings, installation of signs, installation of bollards, removing and resetting of bounds and all other work described in the Contract Documents unless specifically indicated as not to be done.

All work done under this contract shall be in conformance with:

- the City of Newton Standard Specifications and General Construction Details,
- the Massachusetts Highway Department Standard Specifications for Highways and Bridges, dated 2020
- the 2017 Construction Standards and the Supplemental Drawings dated April 2003,
- the 2006 Massachusetts Highway Department Project Development and Design Guide dated February 25, 2010,
- the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD) with revisions and Massachusetts Amendments,
- the 1990 Standard Drawings for Signs and Supports,
- the 1968 Standard Drawings for Traffic Signals and Highway Lighting,
- the latest edition of American Standard for Nursery Stock,
- the Contract Project Manual with any Project Addenda.

The General Conditions, Supplementary Conditions and Special Provisions shall take precedence over the General Requirements of Division I of the MassDOT Standard Specifications.

References within the Standard Specifications to MassDOT, the Department, or the Engineer shall, for the purposes of this Contract, be construed to mean the City of Newton or its designated representative.

#### **ARCHITECTURAL ACCESS BOARD & AMERICANS WITH DISABILITIES ACT TOLERANCES AND STANDARDS**

The Contractor is hereby notified that they are ultimately responsible for constructing all project elements in strict compliance with the current AAB/ADA rules, regulations, and standards.

All construction elements in this project associated with sidewalks, walkways, wheelchair ramps and curb cuts are controlled by 521CMR - Rules and Regulations of the Architectural Access Board (AAB). The AAB Rules and Regulations specify maximum slopes and minimum dimensions required for construction acceptance. There is no tolerance allowed for slopes greater than the maximum slope or for dimensions less than the minimum dimensions.

Contractors shall establish grade elevations at all wheelchair ramp locations, and shall set transition lengths according to the appropriate table in the Construction Standards (or to the details shown on the plans).

#### **ORDERING OF MATERIALS AND DRAWINGS**

The Contractor shall provide the Engineer within 30 days of receipt of the contract, written evidence that:

1. Contractor has ordered the shop drawings for the materials for which shop drawings are required for this contract;
2. Contractor has ordered from a supplier or manufacturer materials necessary to complete the project.

The Contractor shall further provide the Engineer written evidence within 30 days of receipt of the Contract that these orders have been confirmed in writing by the manufacturer with delivery dates appropriate for timely completion of the project. These confirmations of orders will become part of the project records.

Failure to comply with any of the ordering requirements shall nullify a request for an extension of the project completion date.

**SHOP DRAWING SUBMITTAL** (Supplementing Subsection 5.02)

The following is a list of items and materials that require shop drawing or catalog cut approval:

1. **Independent Testing Laboratory to be used**
2. **Gravel Borrow (Type B)**
3. **Drainage Pipes, Structures and Castings**
4. **Water Castings**
5. **Superpave Mix design**
6. **Granite Curbing**
7. **Detectable Warning Panels**
8. **Loam and Seed**
9. **Signage**
10. **Material Testing**

**JOINTS** (Supplementing Subsection 460.65)

The application of hot poured rubberized asphalt sealer, where required in accordance with Subsection 460.65 of the Supplemental Specifications, shall be considered incidental to the work included under Item 460 and 460.01.

**CONCURRENT WORK BY OTHERS WITHIN PROJECT LIMITS** (Supplementing Subsection 5.06)

Concurrent work may be in progress in the project areas by the City of Newton or utility companies or others. The Contractor is required to coordinate his activities with all work by others within and adjacent to the project limits.

The Contractor shall coordinate with private vendors such as FedEx and UPS as well as owners of newspaper boxes to have such boxes removed and stacked from the site in accordance with the progress of the work.

No additional payments will be allowed for any disruption of work schedule caused by or required to coordinate work in this contract and work to be performed by others.

**CONSTRUCTION (STAKES) STAKING** (Supplementing Subsection 5.07)

The Contractor shall furnish all the surveys, establish the base line and lay out the proposed work shown on the plans. All survey work will be in accordance with MassDOT, Highway Division standards and done by a licensed surveyor registered in Massachusetts. Cost of survey work shall be deemed to be included in the contract bid prices and no additional payment shall be made therefore.

**STEEL PLATES IN CONSTRUCTION ZONES** (Supplementing Subsection 7.09)

At the end of each working day trenches in areas of public travel shall be backfilled and covered with steel plates, each edge of such plates shall either be beveled or protected by a slope of two (2) feet horizontally to one (1) inch vertically. Any temporary patching material may be used to construct the ramps. The cost of necessary patching materials, and their maintenance and removal, will be considered incidental to the item involved with no separate payment.

**PUBLIC SAFETY AND CONVENIENCE** (Supplementing Subsection 7.09)

Vehicular and pedestrian travel on the public way shall be maintained by the Contractor during construction and access to abutting land shall be provided at all times. If so directed, temporary walkways will be provided by the Contractor to ensure safe passage under various weather conditions.

The work on this project is to be performed on heavily traveled roadways. The Contractor shall furnish, install, maintain and move all warning devices, barricades, signs, bridging materials, special apparatus, and other safety measures deemed necessary by the Engineer for the protection of motorists, pedestrians and the Contractor's own personnel.

All costs in connection with these measures shall be included in the various payment items and no additional compensation will be made.

**PROPERTY BOUNDS** (Supplementing Subsection 7.13)

The Contractor shall exercise due care when working around all property bounds, which are to remain. The Contractor shall verify the location and reset (if needed) any street right-of-way bounds or markers damaged or moved by result from the actions of the Contractor, the bound shall be accurately replaced and/or realigned by the Contractor as required by the Engineer. The Contractor shall employ a Land Surveyor registered in Massachusetts to perform this work. No further compensation will be due the Contractor for the materials and labor required to re-establish a bound disturbed by the Contractor, except as otherwise noted herein.

**PROTECTION OF UNDERGROUND FACILITIES**

The Contractor's attention is directed to the necessity of making his own investigation in order to assure that no damage to existing structures, drainage lines, traffic signal conduits, etc., will occur. The Contractor shall notify the City of Newton and Mass. DIG SAFE and procure a DIG SAFE number for each location prior to disturbing the existing ground in any way.

DIG SAFE Call Center 1-888-344-7233

The Contractor shall notify the City and Dig Safe 72 hours prior to start of construction.

**NOTICE TO OWNERS OF UTILITIES** (Supplementing Subsection 7.13)

The Contractor shall give written notice to all public service corporations or officials, owning or having charge of public or privately owned utilities, of his intention to commence operations affecting such utilities one (1) week in advance of the commencement of such operations. The Contractor shall, at the same time, file a copy of such notice with the Engineer. Before commencing work on service connections, the Contractor shall contact the serving utility to ensure that proper construction procedures are followed.

The following are the names and addresses of some of the agencies which may be affected, and must be notified. Completeness of this list is not guaranteed. The Contractor shall ensure that all affected agencies are notified.

- City Contract: Lou Taverna, ltaverna@newtonma.gov, (617) 796-1020
- City Construction: Gabe Federico, gfederico@newtonma.gov, (617) 796-1020
- Police: Lieutenant Dan Walsh, dwalsh@newtonma.gov, (617) 796-2100
- Fire: Fire Prevention line, (617) 796-2230
- Fire Alarm & Wires Division: Glenn Manning (617) 796-2280 Cell: (617) 594-7114
- Tree Warden: Marc Welch (617) 796-1560
  
- Water/Sewer/Drain: Bob Sullivan, Chris Casto, Livio Cence (617) 796-1640
- Gas: National Grid, Tammy Saporitio, tammy.saporitio@nationalgrid.com
- Electric: Eversource, Kathy White, kathleen.white@eversource.com
- MWRA: Ralph Francesconi, (617) 305-5827
- Comcast: Manual Furtado (508) 884-2362
- RCN: Joe Volpe (617) 828-6904
- Verizon: Stanley J. Usovicz, Stanley.j.usovicz@verizon.com

**NOTICE TO UNITED STATES POSTAL SERVICE (USPS) POSTMASTER**

The Contractor shall give sufficient notice to the USPS Postmaster of his intention to conduct work in an area where a Mail Collection Box, Mail Transfer Box, or the service thereof may be affected by the construction operations. Before commencing work near a Mail Collection Box that will be affected by the construction, the Contractor shall contact the USPS Postmaster responsible for the Mail Box to ensure that proper procedures are followed. The Contractor may not commence work in this area until the unit has been moved by the USPS or its designee.

**PROTECTION OF UTILITIES AND PROPERTY** (Supplementing Subsection 7.13)

The Contractor, in constructing or installing facilities, alongside or near sanitary sewers, storm drains, water or gas pipes, electric or telephone conduits, poles, sidewalks, walls or other structures, shall, at his expense, sustain them securely in

place, cooperating with the officers and agents of the various utility companies and municipal departments which control them, so that the services of these structures shall be maintained. He shall also be responsible for the repair or replacement, at his own expense, of any damage to such structures caused by his acts or neglect, and shall leave them in the same condition as they existed prior to the commencement of work.

In case of damage to utilities, the Contractor shall promptly notify the owner and shall, if requested by the Engineer, furnish laborers to work temporarily under the owner's direction in providing access to the utility. Pipes or other structures damaged by the operation of the Contractor may be repaired by the City or by the utility company which suffers the loss. The cost of such repairs shall be borne by the Contractor, without compensation therefore.

If, as the work progresses, it is found that any of the utility structures are so placed as to render it impracticable, in the judgment of the Engineer, to do the work called for under this Contract, the Contractor shall protect and maintain the services in such utilities and structures and the City will, as soon thereafter as it reasonably can, cause the position of the utilities to be changed or take such other action as it deems suitable and proper.

If live service connections are to be interrupted by excavation of any kind, the Contractor shall not break the service until new services are provided. Abandoned services shall also be plugged off or otherwise made secure by the utility company involved.

Full compensation for furnishing all labor, materials, tools, equipment and incidentals and for doing all the work involved in protecting or repairing property as specified in this section shall be considered as included in the prices paid for the various contract items of work and no additional compensation will be allowed therefor.

The Contractor shall be required to furnish all labor, materials, and equipment necessary to protect underground structures and electrical vaults within the project site from construction debris and water penetration. When underground structures or electrical vault roofs are excavated, the Contractor shall be responsible for maintaining security of these structures or electrical vaults against unauthorized access. The Contractor shall be responsible for leaving the structures and vaults in a state of water tightness equal to that existing at the commencement of the contract.

The Contractor will cooperate fully with all utility companies private or public and will notify all such companies at least twenty-four hours prior to excavating in the vicinity of any utility. It is understood that the Contractor has considered in his bid the existence of the various utilities and that no additional compensation will be allowed for any delays, inconvenience, or damage sustained by him due to any interference by said utilities.

The Contractor shall pay the serving utility for their services rendered for the connection of the overhead service connections.

#### **DRAINAGE** (Supplementing Subsection 7.13)

It shall be the Contractor's responsibility to maintain proper drainage in the areas under construction until the final system is put into use.

All affected existing pipes and structures within the limits of this contract shall be left in a clean and operable condition at the completion of the work. It shall be the responsibility of the Contractor to make certain that new drainage systems carrying run-off from the limit of this project operate efficiently to their points of discharge into existing systems. Debris in pipes and structures, including deposition of hazardous material as a result of the Contractor's operations shall be removed by the Contractor in accordance with state and federal guidelines without compensation.

All the above work shall be included under the relevant drainage item without additional compensation therefore. Any adjustments made to new drainage structures will be included under the contract unit price for the respective structures.

#### **DRAINAGE SYSTEM**

It shall be the Contractor's responsibility to maintain a proper drainage system at all times in the areas under construction. Existing drainage shall not be taken out of service without prior written notice to the City. All pipes and structures installed as part of this Contract shall be left in a clean and operable condition at the completion of the work.



Drainage castings in new pavement areas shall be installed at base or binder course grade, as directed by the Engineer, and reset to proposed finish surface grade prior to placement of the pavement surface course.

All existing pipes to be abandoned shall be plugged with brick masonry not less than eight (8) inches in thickness in conformance with the MassDOT Standard Specifications, Section 201.62.

No separate payment will be made for the maintenance of the existing drainage system or for plugging of pipes, but all costs in connection therewith shall be included in the unit prices bid for the various Contract items.

### **DRAINAGE STRUCTURES**

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. The existing structure wall shall be carefully and neatly cut to provide the minimum size opening required for the insertion of the new pipe. The proposed pipe end shall be set or cut off flush with the inside face of the existing structure wall and the remaining space around the pipe completely filled with cement grout for the full thickness of the structure wall.

Existing shaped inverts shall be reconstructed, as necessary to provide a smooth and uniform flow channel from the new pipe through the existing structure.

No separate payment will be made for the cost of connecting new pipes into existing structures, cleaning and necessary alterations of existing structures, but all such costs shall be taken as included in the unit prices bid for the various pipe items. In addition, no separate cost will be made for existing frame and grate (or cover) to be removed and stacked, but shall be made incidental to the appropriate drainage structure items, whether it be adjusted, change in type, remodeled, abandoned, or proposed.

### **PROTECTION OF PERSONAL PROPERTY**

The Contractor shall exercise due care when working around all personal property and roadside features which are to remain. Trees to remain within work limits shall have tree protection. Any damage resulting from the actions of the Contractor, shall be replaced and/or repaired by the Contractor as directed by the Engineer. No further compensation will be due the Contractor for the materials and labor required to protect personal property, roadside features to remain or protection for trees.

### **SAWCUTTING**

All edges of excavation made in existing pavements, driveways and sidewalks shall be squared by sawcutting with power-driven tools to provide a neat, clean edge for joining new pavement and sidewalks. Ragged, uneven edges shall not be accepted.

Areas which have been broken or undetermined shall be edged neatly with a minimum disturbance to remaining pavement or sidewalks.

All sawcutting will be considered incidental to the associated bid items. Additional sawcutting may be required to prevent damage to adjacent structures as directed by the Engineer.

Saw-cut surfaces shall be sprayed or painted with a uniform thin coat of RS-1 asphalt emulsion immediately before placement of bituminous concrete material against the surface.

### **FINE GRADING AND COMPACTION**

All areas consisting of existing subbase, newly placed subbase, or any other location where fine grading and compaction is necessary, or directed by the Engineer, prior to the installation of top or finish courses shall be thoroughly fine graded and compacted to provide a neat, clean surface for the installation of new materials.

All fine grading and compaction will be considered incidental to the associated bid items.

### **WORK SCHEDULE** (Supplementing Subsection 8.02)

Work on this project is restricted to 9:00 A.M. to 5:00 P.M. for Daytime work, 7:00 P.M. to 5:00 A.M. of the next day for Nighttime work, and 8:00 A.M. to 5:00 P.M. for Weekend (Saturday and Sunday) work. The Contractor is further advised that the hours of operations are set by law. In addition, no weekend or holiday work will be allowed unless special permission is granted. The Contractor is advised that pavement milling will be done during daytime and paving will be restricted to nighttime. Any other work to be completed as part of Nighttime or Weekend time shall be approved or directed by the Engineer. These stipulations apply to the Prime Contractor and all Subcontractors working on the same shift. The Prime Contractor will have superintendent on site whenever work is being performed. No work shall be done on this contract on Saturdays, Sundays, or Holidays, unless approved by the City in advance. Work will not be allowed the day before or the day after a long weekend, which involves a holiday without prior approval by the City. Exceptions may be taken if so stated in the Contract Documents.

There shall be no work beyond the winter shut down date, unless approved in writing by the Engineer. Workdays shall be continuous to the winter shut down. No additional compensation shall be made for variations in Work Schedule required by the Engineer, and all costs associated with complying with work schedule shall be considered part of the contract bid price.

#### **SCHEDULE OF OPERATIONS** (Supplementing Subsection 8.02)

The Contractor shall construct each phase in order as shown in the Limits of Work unless otherwise directed or approved by the Engineer. The Contractor may work on more than one phase at a time, coordinated with and approved by the Engineer. It shall be the Engineer's option to alter the phasing of work at any time during the project when a change is deemed to be in the best interest of the public. It should be noted that any costs of delays, incurred by these procedures, or changes in these procedures shall be deemed to be included in the contract prices bid and not cause for additional compensation.

#### **PROVISIONS FOR TRAVEL AND PROSECUTION OF WORK** (Supplementing Subsection 8.03)

Before starting any work under this Contract, the Contractor shall submit a Schedule of Operation, as provided in Section 8.02. This work schedule shall include a plan of his construction procedures, detours, and the traffic safety devices he will use during the prosecution of the work as set forth in Section 850.

Any area which the Contractor may require for storage of equipment and materials, or for other purposes necessary in the performance of the work, shall be secured by the Contractor at his own expense. Materials, including excavation intended for backfill, shall not be stored or stacked on roadway surfaces unless specifically permitted by the Engineer.

In general, the Contractor shall coordinate his work with the work to be done by the public utilities or other agencies, and shall so schedule operations as to cause the least interruption to the normal flow of traffic. The Contractor may be required to temporarily suspend operations, when such are considered by the Engineer to be a hindrance hazard to traffic.

The Contractor shall not proceed with surfacing operations without written approval of the Engineer. The Contractor shall provide for the removal of all material spilled from his trucks on existing pavement or other property over which it is hauled, or otherwise deposited thereon whenever, in the judgment of the Engineer, the accumulation is sufficient to cause the formation of mud or dust, or interfere with drainage or create a traffic hazard.

In case of damage to utilities, the Contractor shall promptly notify the Owner and shall, if requested, furnish manpower under the owner's direction in getting access to the utility. Pipes or other structures damaged by the operation of the Contractor may be repaired by the owner, either the municipality or the utility company. The cost of such repairs shall be borne by the Contractor without compensation.

The Contractor shall determine the exact location of all existing utilities before commencing work. Contractor agrees to be fully responsible for any and all damages which might be occasioned by his failure to exactly locate and preserve any and all underground utilities. The Contractor shall include in his bid a sufficient allowance to cover the cost of any exploratory excavations, which are needed to verify utility locations and to accomplish all of the required work.

The Contractor shall be responsible for maintenance of flow in all water courses, drains, and other pipes in the way of the proposed work or for any conveyance of the flow to a suitable point of discharge in such a manner that there will be

no flow upon or hindrance to other work or cause nuisance of any kind.

Roadways under construction shall remain open to local traffic at all times during the period of time required for the completion of the work, except when specifically directed otherwise by the City. At least one lane of traffic in each direction must be maintained at all times on all roads and all existing turning movements must be maintained through construction. Pedestrian and vehicle access to all abutting properties shall be maintained except for very short periods of time for passing of active construction equipment and vehicles working in the immediate adjacent rights-of-way. When it is necessary to deny access to a property, the Owner shall be informed at least 48 hours in advance and alternative provisions made. **An accessible route for pedestrians shall be made available at all times and shall be properly maintained as such. The accessible route shall be equal to the distance of the route provided to able pedestrians.**

Facilities shall be provided by the Contractor for the safe and convenient passage of pedestrians and vehicles through the project. Particular care should be taken to establish and maintain methods and procedures which will not create unnecessary or unusual hazards to public safety. The placement of necessary devices will be for daily work periods and shall be removed after the completion of work operations.

All proposed utility work must be completed before roadway rehabilitation begins on a particular roadway. Roadway excavations must be squared-off at the end of each day and any open trenches shall be backfilled and covered with steel plates. Backfilling and plating shall be considered incidental to the project and not be cause for additional compensation.

The Contractor may begin excavation at either end of the project, but must continue from that end to the completion of the project. During non-working hours, no lateral drop-offs will be permitted within the area of excavation. The excavated areas shall be squared-off and ramped longitudinally at a rate of 12:1 or flatter to meet existing surfaces.

The City reserves the right to alter the lengths of excavation and other operations, for the convenience of the traveling public and abutting property owners.

**SAFETY CONTROLS FOR CONSTRUCTION OPERATIONS** (Supplementing Subsections 850.21 and 850.61)

Unless otherwise provided for by specific items in this contract, furnishing safety controls for construction operations shall be considered incidental to this contract and the costs for safety controls shall be included in the various price for those contract items requiring such controls.

Positioning, adjusting and re-positioning of all devices such as traffic cones, drums, barricades, concrete barriers, high level warning devices, etc., not otherwise paid for under other items in this contract, is considered incidental and no separate payment will be made.

Signs having messages that are irrelevant to normal traffic conditions will be removed or properly covered at the end of each work period. Signs are to be kept clean at all times, and legends shall be distinctive and unmarred. The Contractor shall provide, place and erect all necessary barricades and warning signs and maintain adequate lights and illumination therefore. He shall be held responsible for all damage to the work due to any failure of signs and barricades needed to protect the work from traffic, pedestrians, or other causes.

Construction Signing and maintenance of Traffic will be paid for under Item 852.01.

**TEMPORARY TRAFFIC CONTROL PLAN**

**Construction Staging and Scheduling**

The Temporary Traffic Control Plan and Typical Details show the suggested construction staging with pertinent traffic controls. The Contractor may submit an alternate temporary traffic control plan, in writing, for approval by the Engineer and the City.

The Contractor shall prepare and submit to the Engineer a proposed work schedule which complies with the plans and specifications. No work shall start until the Engineer's approval of the schedule is received.

The Contractor shall notify the City of Newton 14 calendar days before construction starts.



Any area outside the limits of City, County or State layout or temporary or permanent easements which the Contractor may require for storage of equipment and materials, or for other purposes necessary in the performance of the work, shall be secured by the Contractor at his own expense.

Materials, including excavation intended for backfill, shall not be stored or stacked on roadway surfaces unless specifically permitted by the Engineer.

The following are the suggested stages to be followed in the prosecution of this contract. Typical traffic control layouts are shown on the plans. No work on any stage may begin unless all requirements of the previous stages have been met. It shall be the Engineer's option to alter the sequence of work for the project at any time during the project when a change in sequence of work is deemed to be in the best interest of the Public. It should be noted that any costs of delays, incurred by these procedures, or changes in these procedures shall be deemed to be included in the contract prices bid and not cause for additional compensation.

### **General Construction Stages**

1. Full-Depth Roadway Excavation/Pavement Replacement
  - a. Construct all proposed utilities to below subgrade, and bring all existing utilities within the proposed roadway limits down to below subgrade in areas of full depth construction and pavement replacement. See plans for additional requirements.
  - b. Construct areas of full depth roadway and pavement replacement to binder level as indicated in the plans.
  - c. Construct areas of trench repair as directed by the Engineer.
2. Sidewalks
  - a. Construct sidewalk
3. Milling
  - a. Mill roadway surface
4. Top Course
  - a. Apply tack coat and place surface course for the entire length of the project. Surface course shall be placed after the intermediate course within time frame indicated on the plans.
  - b. Apply loam and seed and install signs.

### **General Provisions for Travel and Prosecution of Work**

The Contractor's attention is directed to the suggested traffic control as shown on the plans and in the specifications. The contractor, as directed by the Engineer, is responsible for the furnishing erecting, and maintaining the signing of the roadways, and the proper removal of the signs upon the completion of the project. Compensation for signing will be provided under the provisions of Section 850 and under the respective items therein.

Reconstruction work on the project shall not commence until the stage construction signing and traffic barriers as described in the MUTCD have been installed and approved.

Particular care shall be taken to establish and maintain such methods and procedures as will not create hazards of an unusual nature. Access to abutting properties shall be maintained in a responsible and safe manner for the duration of the construction period.

The design and placing of all safety devices shall be with the approval of the Engineer. Payments of work and materials involved in providing adequate safety procedures shall be as specified in Section 850.

The Contractor shall carry on his work concurrently and in conjunction with the Utility Companies involved with the project so as to provide for all possible cooperation towards the satisfactory completion of the work with minimum delay and inconvenience. The Contractor shall be responsible for coordination of all utility work within the project limits.

Roadway excavation must be squared-off at the end of each day. At the end of each work day, any open utility trenches shall be backfilled and covered with steel plates. Backfilling and plating shall be considered incidental to the project and not be cause for additional compensation.

The Contractor shall be responsible for maintenance of flow in all water courses, drains and other pipes in the way of the proposed work or for any conveyance of the flow to a suitable point of discharge in such a manner that there will be no flow upon or hindrance to other work or cause nuisance of any kind.

Lowering of structures in areas of full depth construction shall be considered to be for the Contractors convenience and not cause for additional compensation. Rebuilding and adjustment of such structures shall be measured and paid for under the appropriate pay items. The castings of all structures, which are required to be set or reset under this project, shall not be set complete in place to the final grade until after the bituminous concrete binder course has been completed and top course is scheduled to be completed within ten calendar days.

The Contractor shall order all materials and services required for the work immediately after the execution of the contract. The Contractor shall not start any operation until all materials required for the operation are at the site or until the Engineer is satisfied that the materials will be delivered in such order that there will be no interruption to continuous and efficient progress.

Roadways under construction shall remain open to local traffic at all times during the period of time required for the completion of the work except when specifically directed otherwise by the Engineer. Reasonable facilities shall be provided by the Contractor for the safe and convenient passage of pedestrians and vehicles through the project at all times.

The placement of warning devices will be for daily work periods and shall be removed after the completion of work operations. Signs having messages that are irrelevant to normal traffic conditions will be removed or properly covered at the end of each work period. Signs are to be kept clean at all times and legends shall be distinctive and unmarred.

The Contractor shall take necessary precautions to avoid spillage from his trucks onto the traveled ways. Any material which may drop from the vehicles when being hauled over the street shall be removed immediately by the Contractor.

### **Sequence of Construction**

It is the intent of these Special Provisions to minimize the construction impacts to the traveling public and abutting property owners by limiting the extent of roadway excavation and requiring the restoration of a weather-tight pavement surface as stipulated in the plans and specifications. All proposed underground installations must be in place prior to the beginning of any roadway paving.

The Contractor shall as required or as directed by the Engineer, lower utility castings to ensure that any interim roadway condition is safe for the traveling public. The demolition, plating, and rebuilding of utility structures as required by interim conditions shall be considered incidental to the project and not cause for additional compensation.

In areas of full depth construction, the Contractor shall as required or as directed by the Engineer, provide temporary backfill to ensure that any interim roadway condition is safe for the traveling public. The placement, compaction and subsequent removal of temporary fill as required by interim conditions shall be considered incidental to the project and not cause for additional compensation. Gravel may be used as temporary fill. Except as indicated on the staging plans or unless directed otherwise by the Engineer, temporary roadway surfaces shall remain in place for no more than 7 calendar days where upon the temporary fill will be removed and replaced with the base course or other finish surface.

The Contractor shall as required or as directed by the Engineer, provide temporary backfill to ensure that any interim sidewalk condition is safe for the traveling public and provides access to all abutters. Gravel may be used as temporary fill. The placement, compaction and subsequent removal of temporary fill as required by interim conditions shall be considered incidental to the project and not cause for additional compensation.

Unless directed otherwise by the Engineer, temporary gravel sidewalk surfaces shall remain in place for no more than 7 calendar days where upon the temporary fill will be removed and replaced with the final sidewalk surface.

The Contractor may begin excavation at either end of the project but must continue from that end to the completion of the project. The excavated and/or reclaimed segment shall be squared-off and ramped longitudinally at a rate of 12:1 or flatter to meet existing surfaces. During non-working hours, no lateral drop-offs will be permitted within the area of excavation.

Intermediate course will be placed on completed base course sections when there is sufficient distance to permit efficient placement operations. Only after the entire project has been completed to intermediate course level will the top course material be allowed to be placed.

Base course surface shall be thoroughly cleaned and a tack coat shall be applied on the base course surface before binder course is placed. A tack coat shall also be applied on the binder course surface before the top course is placed unless directed otherwise by the Engineer.

The Engineer reserves the right to alter the lengths of excavation and other operations in order to ensure the safety of the traveling public and abutting property owners.

### **General**

The following general conditions will be followed unless otherwise directed by the Engineer. The Contractor is referred to the staging plans for additional requirements in the areas of full depth construction.

- Except as permitted by the Engineer, during the day a minimum of one travel lane in each direction must be maintained at all times.
- At least one sidewalk on one side of the street shall remain open at all times.
- Reconstruction of intersections shall be undertaken so as to maintain all existing turning movements.
- Pedestrian and vehicle access to all abutting properties shall be maintained except for very short periods of time. When it is necessary to deny access to a property, the owner shall be informed at least 48 hours in advance.
- Utility work shall be done prior to the roadway construction operations. The Contractor shall coordinate his work with the City and the utility companies.
- The Contractor shall coordinate his activities with construction operations that may be undertaken concurrently by others.
- Work involving fire hydrants shall be done in accordance with instructions of the City of Newton.
- Alternating fire hydrants shall be kept operative at all stages of the construction, unless otherwise directed in writing by the Engineer. No fire hydrant shall be out of order for more than 12 hours.
- No detouring of traffic shall be permitted without 72-hour advance approval by the City of Newton.

### **ENVIRONMENTAL CONTROLS**

Contractor shall control all dirt, dust erosion and other related construction emissions from the project to the satisfaction of the City. Contractor shall comply with all applicable local, state and federal environmental regulations and permit requirements.

The Contractor shall clean and flush all affected drainage structures at the end of the work to the satisfaction of the engineer. The price associated with this work will be deemed incidental to the contract.

All construction equipment shall be fitted with suitable muffling devices so that the noise from construction operation shall be properly controlled. The Contractor shall control all dirt, dust erosion and other related construction emissions from the project to the satisfaction of the Designated Agent.

### **EXCAVATION SUPPORT**

Where the Work of the project requires installation of excavation support systems, the furnishing, installing, maintaining, and final removal as required shall be considered incidental to the item to which it pertains. Dewatering, when required, including disposal in accordance with State and Federal guidelines shall also be considered incidental.

**TEMPORARY LIGHTING**

Where night work activity is required by the Engineer, the Contractor shall furnish Temporary Lighting in accordance with the requirements of Section 850 and all other equipment as may be necessary perform construction activity at night time. All equipment shall meet the approval of the Engineer. All work to furnish, install, relocate and remove temporary lighting shall be considered incidental to the general work of the project and no separate payment will be made.

**DISPOSAL OF SURPLUS MATERIALS**

All existing and other materials not required or needed for use on the project, and not required to be removed and stacked, shall become the property of the Contractor and shall be removed from the site during the construction period and legally disposed of. No separate payment will be made for this work, but all costs in connection there with shall be included in the prices bid for various contract items.

**MATERIALS REMOVED AND STACKED**

Materials directed to be removed and stacked which are the property of the City, shall be removed, transported and stacked at the Department of Public Works yard at **60 Elliot Street in the Newton Highlands**. All materials shall be neatly stacked as directed by the City. In addition, all materials stacked shall be signed for by a City representative.

If the City’s Representative determines that any portions of the stacked materials are unsuitable for re-use by the City, or if other owners decide to abandon part or all of their materials, such materials shall become the property of the Contractor and he shall properly dispose of them off-site subject to the regulations and requirements of local authorities governing the disposal of such materials, at no additional compensation.

**CLEARING AND GRUBBING**

No tree, including trees in clear & grub areas, shall be removed prior to receiving approval of the City of Newton. The removal of all trees shall be coordinated with the City of Newton prior to removal. The clearing and grubbing work shall be considered incidental to the Contract. No separate payment shall be made for clearing and grubbing.

**MOBILIZATION & DEMOBILIZATION**

Mobilization and demobilization of personnel, equipment and materials to and from the work site are incidental to the Contract.

**TRAFFIC OFFICERS**

Uniformed Traffic Officers will be required during the construction period. It shall be the responsibility of the Contractor to arrange for the necessary police details when approved by the City for each police detail required. This request and approval may be verbal or in writing at the discretion of the City. 48-hour notice to the Police Department is required.

The City will pay the exact charges for police details ordered, with the approval of the Engineer, by the Contractor for this project. There will be no administrative fee, mark-ups, or any other additional costs paid to the Contractor.

If the Contractor fails to cancel any police detail not needed, by the required deadline, as set forth by the Newton Police Department, the cost for such detail as invoiced to the City shall be deducted from the total reimbursement to the Contractor, unless otherwise waived by the City. There will be no separate payment for the Contractor’s coordination with the Police Department or City to obtain police details.

**END OF SECTION**

## CITY OF NEWTON

### CONSTRUCTION SPECIFICATIONS

#### ITEMS

All Items of work in this Contract shall be governed by the "Commonwealth of Massachusetts, Highway Department (MassDOT) Standard Specifications for Highway and Bridges", dated 2020, including the latest supplements and addendum thereto.

The following items reflect special conditions particular to this project. As such, they amend and/or supplement the provisions governing the Item, as described in the Standard Specifications.

#### METHOD OF AWARD

**TO ENSURE CONTRACTOR ACCOUNTABILITY, THE OWNER INTENDS TO AWARD ALL ITEMS TO A SINGLE CONTRACTOR. ACCORDINGLY, CONTRACTORS MUST BID ON ALL ITEMS OF WORK, AND THE LOW BIDDER WILL BE THE CONTRACTOR WHOSE TOTAL BID PRICE IS THE LOWEST. THE BID QUANTITIES ARE NOT GUARANTEED, AND THEIR PRIMARY PURPOSE IS FOR THE DETERMINATION OF THE LOW BIDDER.**

0.303DFC-A	Differential Fuel Costs for Asphalt	TN
0.303DFC-EXB	Differential Fuel Costs for Excavation and Backfill	CY
0.303DLA-A	Differential for Liquid Asphalt	TN
0.303DPC-C	Differential for Portland Cement Concrete	CY
102.511	Tree Protection - Armoring and Pruning	Each
120.1	Unclassified Excavation	Cubic Yard
141.1	Test Pit for Exploration	Cubic Yard
151.	Gravel Borrow - Type B	Cubic Yard
156.	Crushed Stone	Ton
204.3	Gutter Inlet - Municipal Standard	Each
220.1	Adjustment of Existing Structures (Frames And Grates Or Covers)	Each
220.21	Structure Rebuilt	Foot
222.3	Frame and Grate (Or Cover) Municipal Standard	Each
227.3	Removal of Drainage Structure Sediment	Cubic Yard
228.1	Trench Drain Removed and Reset	Each
241.12	12 Inch Reinforced Concrete Pipe	Foot
357.	Gate Box	Each
358.	Gate Box Adjusted	Each
381.	Service Box	Each
381.3	Service Box Adjusted	Each
402.1	Dense Graded Crushed Stone for Sub-Base	Ton
415.15	Pavement Milling	Square Yard
440.	Calcium Chloride for Roadway Dust Control	Pound
443.	Water for Roadway Dust Control	MGL
450.23	Superpave Surface Course - 12.5 (SSC - 12.5)	Ton
450.32	Superpave Intermediate Course - 19.0 (SIC - 19.0)	Ton
451.	HMA For Patching	Ton
472.	Asphalt Mixtures for Temporary Work	Ton
503.	Granite Curb Type VA3 - Straight	Foot
504.	Granite Curb Type VA4 - Straight	Foot
504.1	Granite Curb Type VA4 - Curved	Foot

509.	Granite Transition Curb for Wheelchair Ramps – Straight	Foot
509.1	Granite Transition Curb for Wheelchair Ramps – Curved	Foot
697.1	Silt Sack	Each
701.	Cement Concrete Sidewalk	Square Yard
701.1	Cement Concrete Sidewalk at Driveways	Square Yard
701.2	Cement Concrete Wheelchair Ramp	Square Yard
701.21	Detectable Warning Panel	Each
703.	Hot Mix Asphalt Driveway	Ton
707.8	Steel Bollard	Each
711.	Bound Removed and Reset	Each
751.	Loam Borrow	Cubic Yard
765.	Seeding	Square Yard
827.33	Abutment Warning Sign (H1-3) – Aluminum Panel (Type A)	Each
832.	Warning-Regulatory and Route Marker - Aluminum Panel (Type A)	Square Foot
847.01	Sign Post W/ Breakaway Anchor/ Assembly	Each
852.01	Temporary Traffic Control	Lump Sum
856.	Arrow Board	Day
856.12	Portable Changeable Message Sign	Day
866.112	12 Inch Reflectorized White Line (Thermoplastic)	Foot
874.	Street Name Sign	Each
874.45	Miscellaneous Signs Removed and Reset	Each
874.51	Miscellaneous Signs Removed and Discarded	Lump Sum
999.01	Miscellaneous Work Allowance	Allowance
999.02	Allowance for Payment of Traffic Control Officers	Allowance

<b>ITEM 0.303DFC-A</b>	<b>DIFFERENTIAL FUEL COSTS FOR ASPHALT</b>	<b>TON</b>
	<b>DIFFERENTIAL FUEL COSTS FOR</b>	
<b>ITEM 0.303DFC-EXB</b>	<b>EXCAVATION AND BACKFILL</b>	<b>CUBIC YARD</b>

**DESCRIPTION**

The Contractor may elect **NOT** to bid the differential cost of fuels separately by inserting the term **N/A** (*i.e. Not Applicable*) in **the entry line** of Items 0.303DFC-A and 0.303DFC-EXB. This is **a mandatory requirement** to verify that the Contractor has formally waived their option to bid the cost of fuel(s) separately and has instead elected to factor the costs of fuel(s), into the separate respective bid price of Items.

Under this item the Contractor shall be paid for all the fuel(s) cost differentials consumed in the performance of the **Asphalt, Excavation, and Backfill** components of this contract.

The intent of this program is to maintain a reasonable and continuous parity with the regional fluctuations that may occur in the cost of petroleum based fuel products. It is important to note that due to the numerous types of; fuel, equipment, vehicles, programs, and efficiency factors related to each of these operational elements and therefore unique to the Contractor’s own enterprises, that any fuel adjustments made under this item are intended only to defray and offset extraordinary market trends in petroleum based fuel products.

**IMPORTANT NOTE: An adjustment to the cost of fuels may result in an increase of payment if the fuel market has trended upward, or it may otherwise result in a decrease of payment if the fuel market has trended downward.**

**METHOD OF ADMINISTRATION**

In accordance with Chapter 303 Acts of 2008, the City of Newton shall use the most current ‘new’ pricing of Diesel and Gasoline fuel as they are indicated on the Mass Highway web site at the time of advertisement.



The **average** of these two values (Diesel & Gasoline) shall serve as the value basis for determining the **Base Price of Fuel (BPF)** at the time of the advertisement. Subsequently, during the course of the contract, the **Period Price of Fuel (PPF)** shall be determined in the same manner, but at the end of each calendar month, and if the **averaged** Period Price (PPF) has either increased or decreased by more than five percentage points (5%) relative to the **averaged** Base Price of Fuel (BPF), then the cost of fuel(s) for the applicable calendar month shall be paid for at the adjusted rate, otherwise the cost of fuel(s) for the applicable calendar month shall be paid for at the initial Base Price of Fuels.

When a cost adjustment is applied it shall be inclusive of the five (5%) variation.

Payments for fuel used for the **Asphalt, Excavation, and Backfill operation(s)** shall be calculated at the end of **each calendar month** and they shall be based upon the acceptable **quantity of material supplied, delivered, installed, and/or disposed** within that particular (applicable) calendar month in which the work was performed. **(Program Note: In the event a continuous operation spans several days but the delivery & discharge of the material is performed in two separate months, then two separate fuel payments shall be made).**

At the end of each calendar month the Contractor shall furnish the Engineer with an accurate measured and tabular accounting which clearly shows the **collective number of material verified and applied/removed during that particular (applicable) calendar month**. The invoiced accounting shall bear the name of the Contractor and Vendor and shall be **surrendered to the DPW Agent-In-Charge immediately upon the termination of operations at the end of each calendar month. The City will have no obligation to pay for any errant invoice slips which are forwarded after the re-surfacing operations for the month have ceased.**

**No upward fuel adjustment will be made for any delivery and/or application related activity which takes place beyond the completion date of the contract** unless the Contractor's work has been delayed due to no fault of their own (i.e. Preparation work that must be performed by others before the Contractor can complete their own tasks in the contractually allotted time.) Any such delay must be brought to the attention of the DPW Agent-In-Charge in a timely manner at which time the Agent shall investigate, verify, and document the extenuating circumstances and inform the Contractor of their decision.

## MEASUREMENT AND PAYMENT

Payment formula:

- BPF** = The Base Price of Fuel on the bid release date (Averaged cost of Diesel & Gasoline in \$/Gallon).  
**PPF** = The Period Price of Fuel for the applicable calendar month (Averaged cost of Diesel & Gasoline in \$/Gallon).  
**G/QTY** = Gallons of fuel to supply, deliver, install, and/or dispose One (1) Unit of material (Gallons /Ton or Cubic Yard). These values are provided by MassDOT and are shown in the Item Sheet.  
**QTY** = Total quantity of material supplied, delivered, installed, and/or disposed of in the applicable calendar month. (Ton or Cubic Yard)

**If a change in (PPF) does not exceed +/- 5% relative to the (BPF) then: No differential adjustment.**

**If a change in (PPF) does exceed +/- 5% relative to the (BPF) then:  $(PPF - BPF) \times G/QTY \times QTY = \text{Differential Value for Current Pay Period } (\$)$ .**

The differential value for cost of fuel(s) consumed for the **supply, delivery, installation, and/or disposal of one (1) unit of material(s)** shall be paid for under its corresponding **Item 0.303DFC** and shall be made in accordance with the applicable Period Price for Diesel & Gasoline fuels as posted for each calendar month in which the work was performed and as specified herein.

The Contractor shall be responsible for disbursing fuel cost adjustments to their subcontractors and/or to their vendors.

No payment shall be made for any fuel(s) consumed to remedy and/or to replace any deficient material supplied by the Contractor, subcontractors and/or their vendors.

**ITEM 0.303DLA-A                      DIFFERENTIAL COST FOR LIQUID ASPHALT                      TON**

**DESCRIPTION**

**The Contractor may elect NOT to bid the differential cost of liquid asphalt separately by inserting the term N/A (i.e. *Not Applicable*) in the entry line of Item 0.303DLA-A. This is a mandatory requirement to verify that the Contractor has formally waived their option to bid the cost of fuel(s) separately and has instead elected to factor the costs of fuel(s), into the separate respective bid price of Items.**

Under this item a differential value shall be calculated and applied to the payment on a monthly basis. The differential value shall be based upon the amount of Liquid Asphalt contained in the total number of **tons of asphalt** supplied, delivered and installed in each respective calendar month.

**Item 0.303DLA-A** is to provide a structured means, whereby the cost of the Liquid Asphalt contained in **asphalt** is evaluated each calendar month, and under certain market conditions this value is adjusted **either upward or downwards** to maintain a reasonable and continuous parity with the regional fluctuations that may occur in the price of this commodity.

**IMPORTANT NOTE: An adjustment to the cost of the Liquid Asphalt component may result in an increase of payment if the market has trended upward, or it may otherwise result in a decrease of payment if the market for Liquid Asphalt has trended downward. Further, these adjustments do not compensate the Contractor for the entire cost of the compound(s) consumed in the execution of this contract but only for the monthly differential value(s) which may occur with regard to the Liquid Asphalt component.**

**METHOD OF ADMINISTRATION**

In accordance with Chapter 303 Acts of 2008 the City of Newton shall use the most current ‘new’ pricing for **Liquid Asphalt** as indicated on the Mass Highway web site at the time of advertisement.

The value at the time of advertisement shall serve as the Base Price of Liquid Asphalt (BPLA). Subsequently, and during the course of the contract, the Period Price of the Liquid Asphalt (PPLA) component shall be determined in the same manner and at the end of each respective calendar month, and if the Period Price (PPLA) has either increased or decreased by more than five percentage points (5%) relative to the Base Price (BPLA) index, then the differential cost of the Liquid Asphalt component shall be paid for at the adjusted rate, otherwise no adjustment shall be made.

**The Contractor is advised to verify these value standards and citations prior to placing their bid.**

The differential value for the Liquid Asphalt component shall be calculated at the end of each calendar month and it shall be based upon the number of acceptable **tons of asphalt** supplied, delivered and installed within that particular calendar month. This value shall be derived by applying a fixed factor to the tonnage of Liquid Asphalt that is contained in a single **ton of asphalt**. **(Program Note: In the event a continuous delivery & application operation spans several days but is performed in two separate months, then two separate Liquid Asphalt calculations shall be made.)**

When a cost differential is applied it shall be inclusive of the five (5%) variation.

Immediately upon delivery, and subsequently upon the final installation of material at day’s end, the Contractor shall furnish the Engineer with an invoice that clearly indicates the amount of **asphalt** that was applied. The invoice shall clearly show the **tare weight, type of asphalt and the date of delivery & discharge** for each **application of asphalt** which is ultimately delivered and discharged. The plant issued tare/weight invoicing slips are to bear the name of the



vendor and shall be surrendered to the DPW Agent-In-Charge **immediately** upon the delivery of the material. The City will have no obligation to pay for any errant slips which are forwarded after the delivery vehicle has exited the project site.

No **upward** Liquid Asphalt component adjustment will be made for any material which is applied beyond the completion date of the contract unless the Contractor's work has been delayed due to no fault of their own (i.e. Preparation work that must be performed by others before the Contractor can complete their own tasks in the contractually allotted time). Any such delay must be brought to the attention of the DPW Agent-In-Charge in a timely manner at which time the Agent shall investigate, verify, and document the extenuating circumstances and inform the Contractor of their decision.

## MEASUREMENT AND PAYMENT

Payment formula:

**BPLA** = The Base Price Liquid Asphalt Cost Index on the bid release date (\$/Ton of Liquid Asphalt)

**PPLA** = The Period Price for One Ton of Liquid Asphalt for the applicable calendar month in which it was delivered (\$/Ton of Liquid Asphalt)

**TA** = Total tons of asphalt applied in the applicable calendar month (Tons)

The percentage of Tons of Liquid Asphalt in One (1) ton of asphalt shall be determined by the Contractor's formula submittal.

If a change in (PPLA) **does not exceed** +/- 5% relative to the (BPLA) then: No differential adjustment.

If a change in (PPLA) **exceeds** +/- 5% relative to the (BPLA) then:

$(PPLA - BPLA) \times TA \times (\text{percentage to be determined by the Contractor's formula submittal}) \times \text{RAP Factor} =$   
Differential Value for Current Pay Period (\$).

Under **Item 0.303DLA-A** the differential value for **Liquid Asphalt contained in One (1) ton of asphalt** used to complete the work under this contract shall be made in accordance with the Period Price index values for Liquid Asphalt posted for each calendar month in which the work was performed and relative to the Base Price as specified herein. Subsequently these values shall be factored in accordance with the above-noted formula.

The differential value for Liquid Asphalt shall be based upon a **fixed mean value** of a percentage to be determined by the Contractor's formula submittal per Ton of Liquid Asphalt contained in One (1) ton of asphalt, with said value differential being factored only on the quantity actually used, verified and/or accepted by the Engineer.

No adjustment shall be made for any material which is rejected or is deemed to be of an inferior quality. Nor shall any adjustment be made for Liquid Asphalt contained in any **asphalt** material(s) which are used to remedy any deficient work which was initially performed by the Contractor and/or vendor under this contract, and which is proven to be deficient and/or of inferior quality during and/or subsequent to discharge.

The Contractor shall be responsible for disbursing the Liquid Asphalt cost adjustments to their subcontractors and/or to their vendors.

## **ITEM 0.303DPC-C DIFFERENTIALCOST FOR PORTLAND CEMENT CONCRETE CUBIC YARD**

### DESCRIPTION

The Contractor may elect **NOT** to bid price adjustment of Portland Cement separately by inserting the term **N/A** (i.e. Not Applicable) in **the entry line** of Item 0.303DPC-C. This is a **mandatory requirement** to verify that the

**Contractor has formally waived their option to bid the cost price adjustment separately and has instead elected to factor the costs into the separate respective bid price of Items.**

Under this item a differential value shall be calculated and applied to the payment on a monthly basis. The differential value shall be based upon the amount of Portland cement contained in the total number of **cubic yards of concrete** supplied, delivered and installed in each respective calendar month.

**Item 0.303DPC-C** is to provide a structured means, whereby the cost of the Portland Cement contained in **concrete** is evaluated each calendar month, and under certain market conditions this value is adjusted **either upward or downwards** to maintain a reasonable and continuous parity with the regional fluctuations that may occur in the price of this commodity.

**IMPORTANT NOTE: An adjustment to the cost of the Portland Cement may result in an increase of payment if the market has trended upward, or it may otherwise result in a decrease of payment if the market for Portland Cement has trended downward. Further, these adjustments do not compensate the Contractor for the entire cost of the compound(s) consumed in the execution of this contract but only for the monthly differential value(s) which may occur with regard to the Portland Cement component.**

#### **METHOD OF ADMINISTRATION**

In accordance with Chapter 303 Acts of 2008 the City of Newton shall use the most current ‘new’ pricing for **Portland Cement** as indicated on the Mass Highway web site at the time of advertisement.

The value at the time of advertisement shall serve as the Base Price of Portland Cement (BPPC). Subsequently, and during the course of the contract, the Period Price of the Portland Cement (PPPC) component shall be determined in the same manner and at the end of each respective calendar month, and if the Period Price (PPPC) has either increased or decreased by more than five percentage points (5%) relative to the Base Price (BPPC) index, then the differential cost of the Portland Cement component shall be paid for at the adjusted rate, otherwise no adjustment shall be made.

**The Contractor is advised to verify these value standards and citations prior to placing their bid.**

When a cost differential is applied it shall be inclusive of the five (5%) variation.

Immediately upon delivery, and subsequently upon the final installation of material at day’s end, the Contractor shall furnish the Engineer with an invoice that clearly indicates the amount of **concrete** that was applied. The invoice shall clearly show the **cubic yardage, type of concrete mix and the date of delivery & discharge** for each **application of concrete** which is ultimately delivered and discharged. The plant issued invoicing slips are to bear the name of the vendor and shall **be surrendered to the DPW Agent-In-Charge immediately upon the delivery of the material. The City will have no obligation to pay for any errant slips which are forwarded after the delivery vehicle has exited the project site.**

**No upward cement concrete component adjustment will be made for any material which is applied beyond the completion date of the contract** unless the Contractor’s work has been delayed due to no fault of their own (i.e. Preparation work that must be performed by others before the Contractor can complete their own tasks in the contractually allotted time). Any such delay must be brought to the attention of the DPW Agent-In-Charge in a timely manner at which time the Agent shall investigate, verify, and document the extenuating circumstances and inform the Contractor of their decision.

#### **MEASUREMENT AND PAYMENT**

Payment formula:

**BPPC** = The Base Price Portland Cement on the bid release date (\$/CY of Portland Cement Concrete)



Prior to start of work, the Contractor shall submit the name and certification number of the Massachusetts Certified Arborist referenced herein to the Resident Engineer for approval. Cost for Certified Arborist for all activities pertaining to this Item shall be incidental to this Item.

### MATERIALS

Trunk armoring shall be such that it prevents damage to the trunk from construction equipment. Selected material shall be such that installation and removal will not damage the trunk.

Acceptable materials include 2x4 re-cycled plastic cladding with wire or metal strapping. Height of cladding shall be from base of tree (including root flare) to the bottom of the first branch or as recommended by the Arborist. Material and methods shall be approved by the Engineer.

Incidental to this item, the Contractor shall provide water for maintaining plants in the construction area that will have exposed root systems for any period during construction.

Other materials or methods may be acceptable if approved by the City of Newton.

### METHODS OF WORK

Prior to construction activities, the Engineer, the Contractor, the City Tree Warden, and the Arborist, shall review trees noted on the plans to be protected and as required by the Engineer shall walk the site with the Engineer and City Tree Warden to identify which trees will require protection and to determine approved measures. Final decision as to trees armored and/or pruned shall be per the Engineer.

Care shall be taken to avoid damage to the bark during installation and removal of armoring. Trunk armoring shall be replaced and maintained such that it is effective for as long as required and shall be removed immediately upon completion of work activities adjacent to trees.

Pruning of limbs shall conform to the techniques and standards of the most recent ANSI A300 standards.

Some pruning of roots and branches may be a necessary part of construction. Pruning will be performed on the same side of the tree that roots have been severed.

The Contractor's Arborist shall oversee any cutting of limbs, stem or roots of existing trees. All cuts shall be clean and executed with an approved tool. Under no circumstances shall excavation in the tree protection area be made with mechanical equipment that might damage the existing root systems.

Any tree root area exposed by construction shall be covered and watered immediately. Exposed tree roots shall be protected by dampened burlap at all times until they can be covered with soil.

Water each tree within the construction area where work is in progress twice per week until the surrounding soil of each tree is saturated for the duration of construction activities. Watering is to be implemented according to Subsection 771.74 Watering.

Where excavation within canopy is unavoidable, the Contractor shall use equipment and methods that shall minimize damage to the tree roots, per recommendations of the Certified Arborist. Such methods may require root pruning prior to, as well as during, any excavation activities.

After all other construction activities are complete, but prior to final seeding, wood chips, temporary fencing, branch protection, and trunk protection materials shall be removed and disposed off site by the Contractor at no additional cost.

### DAMAGES & PENALTIES

In the event that trees designated for protection under this item are damaged, including root damage from unapproved trespassing onto the root zone, the Contractor shall, at his own expense obtain an Arborist. The Arborist shall be approved by MassDOT.

If, based on the recommendations of the Arborist, the Engineer determines that damages can be remedied by corrective measures, such as repairing trunk or limb injury, soil compaction remediation, pruning, and/or watering, the damage will be repaired as soon as possible within the appropriate season for such work and according to industry standards.

If the Engineer determines that damages are irreparable, the Contractor shall pay for the damages in the amount of \$500.00 per diameter inch at breast height (DBH) per tree.

Additionally, if the Engineer determines that the damages are such that the tree is sufficiently compromised as to pose a future safety hazard, the tree shall be removed. Tree removal will include clean up of all wood parts, grinding of the stump to a depth sufficient to plant a replacement tree or plant, removal of all chips from the stump site, and filling the resulting hole with topsoil.

If existing shrubs, vines and groundcover which are to be saved are damaged, as determined by the Engineer, they shall be replaced with plants of equal type and size. All costs incurred shall be paid for by the Contractor at his own expense. The tree protection fence shall be removed just prior to spreading of loam.

#### METHOD OF MEASUREMENT AND BASIS OF PAYMENT

Item 102.511 will be measured and paid at the contract unit price per each. This will include full compensation for all labor, equipment, materials, and incidentals for the satisfactory completion of the work including the services of a certified arborist, wood chips, water, temporary fence, cutting or pruning of roots, cladding, burlap and the subsequent removal and satisfactory disposal of the protective materials upon completion of the contract.

In the event of tree damage, cost of Arborist services, of remediation measures, and/or tree removal will be borne by the Contractor.

Payment under this item will be scheduled throughout the length of contract:

- 40% of value shall be paid upon installation of trunk armoring and completion of pruning work, if required.
- 60% shall be paid at the end of construction operations that would damage the tree and after protection materials have been removed and properly disposed of by the Contractor. In the event of repairable damages, payment shall be made after the completion of remediation measures.

In the event of irreparable damage due to lack of proper protective measures being take there will be no compensation in addition to the \$500.00 per diameter inch penalty.

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<b>ITEM 120.1</b>	<b>UNCLASSIFIED EXCAVATION</b>	<b>CUBIC YARD</b>
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#### **DESCRIPTION**

The work to be done under this item shall consist of removing and disposing in accordance with the relevant provisions of Section 120, in work locations as directed by the Engineer, except for those materials for which payment is made inclusive with work specified to be performed under other items of this Contract.

The work under this item shall include all excavation not otherwise included for payment under other items of this contract. Unclassified excavation shall include but not be limited to removal and disposal of substandard or damaged curb, curb inlets, edging, concrete, rock, cobblestones, drainage structures, castings, pipes, guardrail, fence and all other materials not classified and paid for under other items.

Edges of excavations made in existing pavements shall be squared by saw cutting with power-driven tools to provide a neat, clean edge for joining new pavement. Ragged, uneven edges shall not be acceptable. Pavement areas which have been broken or undermined shall be edged neatly with minimum disturbance to remaining pavement.

Foundations left in place under the roadway surface shall be removed to a depth of 3 feet; all other foundations left in place shall be removed to a depth of 12 inches below the finished grade.

When working next to existing retaining walls or buildings, the Contractor shall exercise extreme caution not to disturb existing walls. Any handwork necessary shall be considered part of the work of this section. If existing structures are disturbed, they shall be reconstructed at the Contractor's expense to thoroughly match the existing structure in color, texture, material and workmanship.

Removal of castings, lowering and plating of structures shall also be considered part of the work of this section.

In the event that roadway patching is needed as deemed so by the Engineer, the areas shall be saw-cut to the extents as directed by the Engineer and removed to a depth shown on the plans. The remaining subbase shall be trimmed, fine graded, and compacted as part of this item. Any additional gravel needed shall be paid for under Item 151. Gravel Borrow. Any handwork necessary shall be considered part of the work of this section.

Before starting any excavation, the Contractor shall field check and verify all utilities, vaults, septic systems, sprinkler systems, and other sub-surface features in the project area and be sure that the excavation will not disturb or damage such features. The Contractor will coordinate his construction activities with the owners of such features and obtain approval or permits, if necessary, prior to starting the excavation. Any damage to sub-surface features during the construction process will be the responsibility of the Contractor and will be repaired by the Contractor at his own expense. If the owner so wishes, he will repair the damage himself and bill the Contractor for his expenses.

## **MEASUREMENT AND PAYMENT**

Payment under this Item shall be at the Contract Unit Price bid per Cubic Yard, which price shall include all labor, materials, and equipment necessary to complete the saw-cutting, excavation, legal disposal of unwanted or surplus material, trimming, fine grading, and compaction of subbase material, not covered by other items of this contract and permits.

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<b>ITEM 141.1</b>	<b>TEST PIT FOR EXPLORATION</b>	<b>CUBIC YARD</b>
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The work to be done under this Item shall conform to the relevant provisions of Section 140 supplemented by the following:

The Contractor shall exercise extreme caution when performing the work of this section, and specialized techniques such as vacuum excavation or handwork as directed by the Engineer and shall be considered part of the work of this section. Test pits shall be as indicated on the plans and no greater than 5' x 3' x 5' deep unless otherwise directed by the Engineer.

Test pits shall be performed on Allen Ave in areas where the proposed granite curb are over the existing gas main to verify that the existing gas main will not conflict with the proposed curb. Test pit locations shall be as directed by the Engineer. The contractor shall not install granite curb at these locations until the City has approved the curb at these locations with respect to the location of the existing gas main.

Payment for work under this Item shall be at the Contract Unit Price bid per Cubic Yard, which price shall be full compensation for labor, materials, equipment, tools, saw-cutting, excavation, including any special techniques such as hand or vacuum methods, survey or other measurement, backfilling, compacting, coordinating with others and all incidentals necessary to satisfactorily complete the work. Test pits made without the prior approval of the Engineer shall not be compensated for. Payment for temporary HMA patch shall be paid under Item 472.



**DESCRIPTION**

Work under this Item shall conform to the relevant provisions of Sections 150 and 170 of the Standard Specifications and the following: Gravel Borrow shall conform to Material Specifications M1.03.0 (Type B).

**CONSTRUCTION METHOD**

Gravel Borrow shall be placed with a maximum lift thickness of six (6) inches. Where required, trenches shall be backfilled with approved granular materials and properly compacted to the minimum density of 90 percent of the maximum density as determined by ASTM D1557 (Modified Proctor). All other gravel areas shall be compacted to the minimum density of 95 percent of the maximum density. Any settlements or other defective work and material shall be promptly repaired or replaced at the Contractor's expense. The density of the compacted fill shall be determined by the ASTM D6938 Nuclear Method or latest ASTM standard.

The shaping, trimming, compacting and finishing of the surface of the subgrade, the grading and finishing of all unpaved areas, and the preparation of all areas for topsoil, loam, slopes, and sidewalk/roadway paving in close conformance with the lines, grades and typical cross sections described in the specifications, or as directed or established by the Engineer.

Fine grade and compaction shall be considered incidental to this item.

**MEASUREMENT AND PAYMENT**

Payment for this Item shall be at the Contract Unit Price bid per Cubic Yard, which price shall include all labor, materials, equipment, fine grading, compaction, necessary testing, and any incidentals necessary to complete the work to the satisfaction of the Engineer.

The work to be done under this item shall conform to the relevant provisions of Section 201 of the Standard Specifications and as the following:

The Contractor shall construct drainage structures in the locations and of the types called for on the plans or as directed by the Engineer and in accordance with the City of Newton standard drawings. Shop drawings shall be submitted.

The proposed gutter inlet shown at the Allen Ave/Plainfield Street intersection shall have inside dimensions of 4' long x 2' wide so that it is capable of accepting 2 grates side by side as shown on the plans.

Connections to existing pipe shall be included in the cost of the structure. If existing pipe is to be abandoned, end of existing pipe shall be plugged as specified in Section 200. Cost for plugging shall be considered incidental to the work of this section.

Excavation support and excavation techniques such as vacuum excavation may be required for installation of structures due to the proximity of existing utilities. All work to install drainage structures complete in place shall be considered part of work of this section.

A bedding of crushed stone shall be placed under the drainage structures as directed by the Engineer. The crushed stone shall be considered incidental to the work of this section.

Gutter inlets shall be paid for at the contract unit bid price per each, which price shall include all sawcuts, excavation, excavation support, dewatering, backfill, compaction, labor, tools, and materials necessary to complete the work to the satisfaction of the Engineer.

**ADJUSTMENT OF EXISTING STRUCTURES  
(FRAMES AND GRATES OR COVERS)**

<b>ITEM 220.1</b>		<b>EACH</b>
<b>ITEM 220.21</b>	<b>STRUCTURE REBUILT</b>	<b>FOOT</b>

**DESCRIPTION**

Work under this item shall conform to the requirements of the Mass DOT Standard Specifications and the latest Supplemental Specifications for Section 220 (Adjustment, Rebuilding and Remodeling of Structures).

Lowering structures, including plating as may be required shall be considered incidental to the general work of the contract and no additional payment shall be made thereto.

Sewer structures adjusted or rebuilt shall be measured and paid as part of the work of this section.

Work under item 220.1 shall include adjusting manhole and catch basin castings to the proposed finished grade when the adjustment to grade is six (6) inches or less. Installation of riser rings will not be permitted as an acceptable means of structure adjustment and no compensation for the installation of riser rings will be made.

Work under Item 220.21 shall include vertical masonry rebuild for adjustment of structures requiring a change of greater than six (6) inches to meet the proposed finished grade and no additional payment will be made as part of Item 220.1 adjustment of existing structures.

Multiple adjustments that may be necessary as a result of the work sequence shall be considered part of the one-time measurement and payment and not cause for additional compensation.

Salvageable frames and grates or covers from existing structures to be removed shall be removed and reset to proposed structures as directed by the Engineer or, if not needed, they shall be removed and stacked. Non-salvageable frames and grates or covers from existing drainage structures to be removed shall become the property of the Contractor and shall be disposed of off the site. If frames and grates or covers from existing structures are non-salvageable due to no fault of the Contractor, a new frame and grate or cover shall be paid for under Item 222.3.

**MATERIALS**

Brick to be used shall meet the requirements of MassDOT Materials Specification M4.05.2 (Clay Brick).

**CONSTRUCTION METHOD**

The dimensions of the concrete collars shall be as shown on MassDOT Construction Standard Drawing E 202.9.0. Concrete collars shall be incidental to the item of work to which they pertain.

All rebuilt and remodeled structures shall be set to allow for 2 courses of mortared clay brick between the frame and the structure. The use of cement concrete brick will not be allowed. All frames shall be set in a concrete collar conforming to Standard Detail E 202.9.0 prior to placement of top course. Collars shall be constructed of High Early Strength 4,000 PSI, 1-1/2", cement concrete masonry 610 cement concrete. Concrete collars shall be brought to a height that will allow placement of the full depth of the specified pavement-wearing surface or a minimum of 3.5" of hot mix asphalt above the collar. Concrete collars shall be tacked coated with RS-1 Asphaltic Emulsion prior to the placement of pavement. No additional compensation for concrete collars shall be allowed.

All dirt and debris caused by the Contractor shall be cleaned by the Contractor at his own expense.



In all roadways, the castings shall be adjusted to the final grade and measured by each catch basin or manhole adjusted and approved by the Engineer. Damaged or obsolete castings shall be replaced with new castings as directed by the Engineer. Salvageable frames and grates or covers from existing structures to be removed shall be removed and reset to proposed structures as directed by the Engineer or, if not needed, they shall be removed and stacked. Non-salvageable frames and grates or covers from existing drainage structures to be removed shall become the property of the Contractor and shall be disposed of off the site. If frames and grates or covers from existing structures are non-salvageable due to no fault of the Contractor, a new frame and grate or cover shall be paid for under Item 222.3 frame and grate (or cover) municipal standard.

## **MEASUREMENT AND PAYMENT**

Payment under Item 220.1 shall be at the Contract Unit price bid per Each, which price shall include all labor, tools, materials, pavement saw cuts, concrete collar, setting/resetting the existing frame and grate (or cover) to proper line and grade, transporting/stacking/discarding the existing frame and grate (or cover) as necessary and all other necessary incidental expenses.

Payment under Item 220.21 shall be at the Contract Unit price bid per Foot, which price shall include all labor, tools, materials, pavement saw cuts, concrete collar, setting/resetting the existing frame and grate (or cover) to proper line and grade, transporting/stacking/discarding the existing frame and grate (or cover) as necessary and all other necessary incidental expenses.

Payments shall not be made for castings that have not been correctly adjusted to the proper finished grade elevation satisfactory to the Engineer.

Multiple adjustments that may be necessary as a result of the work sequence shall be considered part of the one-time measurement and payment and not cause for additional compensation.

Use of steel plates to cover open structures shall be considered incidental to the work and not cause for additional compensation.

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<b>ITEM 222.3</b>	<b>FRAME AND GRATE (OR COVER) MUNICIPAL STANDARD</b>	<b>EACH</b>
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### **DESCRIPTION**

The work of this Item shall conform to the relevant provisions of Section 200 of the Standard Specifications and the following:

### **MATERIALS**

Frames, grates and covers shall be of good quality, strong, tough, even grained cast iron smooth, free from scale, lumps, blisters, sand holes and defects of any kind which render them unfit for the service for which they are intended. Grates, covers, and frame seats shall be machined to a true surface. Castings shall be thoroughly cleaned and subject to hammer inspection.

Catch basin frames and grates shall be East Jordan Iron Works, per municipal standard, or approved equal.

Manhole covers shall have a diamond pattern; pick holes and the appropriate word "DRAIN" or "SEWER" cast in three (3) inch letters.

### **CONSTRUCTION METHOD**

Casting frames shall be set in a full mortar bed with clay bricks (maximum height 8 inches). Use of cement concrete brick will not be allowed. Castings shall be set to line and grade and secured with a concrete collar that is overlaid with a minimum of two inches of Asphalt top course.

**MEASUREMENT AND PAYMENT**

Compensation for this work shall be at the Contract Unit price bid for Each, which price shall include all labor, tools, material and necessary to furnish new frame and grate (or cover) castings and all incidental expenses.

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**ITEM 228.1** **TRENCH DRAIN REMOVED AND RESET** **EACH**

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**DESCRIPTION**

The work of this Item shall conform to the relevant provisions of Section 200 and Section 230 of the Standard Specifications and the following:

**MEASUREMENT AND PAYMENT**

Compensation for this work shall be at the Contract Unit price bid for Each, which price shall include all labor, tools, material and equipment necessary to remove existing trench drain from its existing location, to reset trench drain as shown on the plans to final grade, to connect trench drain to existing outlet and all incidental expenses.

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**ITEM 241.12** **12 INCH REINFORCED CONCRETE PIPE** **FOOT**

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Work under this item shall conform to the relevant provisions of Section 230 of the Standard Specifications, and the following:

Where new drains tie into existing catch basins or manholes, connection including coring shall be considered part of the work of this section. Inverts shall be rebuilt or cut to match proposed conditions as part of the work under this section.

Excavation regardless of depth shall be considered incidental to the work of this item. Excavation support and excavation techniques such as vacuum excavation may be required for installation of pipes due to the proximity of existing utilities and shall be considered incidental to the work of this section.

Payment under these Items shall be at the contract unit prices bid per foot, including sawcuts, excavation, excavation support, dewatering, backfilling, compaction, and all incidentals required to install proposed drainage pipe to the satisfaction of the Engineer.

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**ITEM 357.** **GATE BOX** **EACH**  
**ITEM 358.** **GATE BOX ADJUSTED** **EACH**

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**DESCRIPTION**

Work under this item shall conform to the requirements of the Mass DOT Standard Specifications and the latest Supplemental Specifications for Section 301.

**CONSTRUCTION METHOD**

Valve boxes shall be installed vertically, centered over the operating nut, and the elevation of the top shall be adjusted to final grade. Boxes shall be continuously and adequately supported during backfilling to maintain vertical alignment. Bricks shall be placed at the base of the flange to properly support the box. Backfill around valve boxes and anywhere excavation is made in the street shall be compacted in 12-inch lifts.

**MEASUREMENT AND PAYMENT**

Work shall include adjusting box castings, regardless of size, to the proposed finished grade. Boxes located in street pavement shall have collars. Installation of riser rings will not be permitted as an acceptable means of structure adjustment and no compensation for the installation of riser rings will be made.

Gate boxes damaged by the Contractor’s operations will be replaced by the Contractor at his own expense.

Boxes found to be inoperable due to no fault of the Contractor shall be replaced under Item 357, regardless of size, with new gate boxes in accordance with the City’s standards. Installation of a new gate box will include the cost of the new utility casting plus any costs associated with setting it to the finish grade elevation as described in for Item 358. All payments made for furnishing a new casting and installing to the proper finish grade elevation will be made under Item 357 and no additional payments will be made under Item 358 for that particular structure. Where existing castings can be adjusted to finished grade without replacement of the casting, payment will be made under Item 358.

Payment under Item 357 shall be at the Contract Unit price per Each, which prices shall be full compensation for all labor, equipment, materials to furnish and install new gate boxes regardless of size, to remove and dispose of old boxes not fit for reuse, and all incidentals necessary to set it to the proper finish grade elevation and complete all work to the satisfaction of the Engineer.

Payment under Item 358 shall be at the Contract Unit price per each, which prices shall be full compensation for all labor, equipment, materials to adjust boxes regardless of size to proper finish grade elevation, and all incidentals necessary to complete the work to the satisfaction of the Engineer.

Payments shall not be made for castings that have not been correctly adjusted to the proper finished grade elevation satisfactory to the Engineer.

<b>ITEM 381.</b>	<b>SERVICE BOX</b>	<b>EACH</b>
<b>ITEM 381.3</b>	<b>SERVICE BOX ADJUSTED</b>	<b>EACH</b>

**DESCRIPTION**

Work under this item shall conform to the relevant provisions of Section 301 of the Standard Specifications and the following:

The work of these items shall include adjusting service boxes and/or providing new service boxes if existing boxes are already damaged, and/or do not appear on the contract plans or record plans. New service boxes shall meet City standards.

Work shall include adjusting box or service castings, regardless of size, to the proposed finished grade. Installation of riser rings will not be permitted as an acceptable means of structure adjustment and no compensation for the installation of riser rings will be made.

Service boxes damaged by the Contractor’s operations will be replaced by the Contractor at his own expense.

Boxes found to be inoperable due to no fault of the Contractor shall be replaced under Item 381, regardless of size, with new service boxes in accordance with the City’s standards. Installation of a new service box will include the cost of the new utility casting plus any costs associated with setting it to the finish grade elevation as described in for Item 381.3. All payments made for furnishing a new casting and installing to the proper finish grade elevation will be made under Item 381 and no additional payments will be made under Item 381.3 for that particular structure. Where existing castings can be adjusted to finished grade without replacement of the casting, payment will be made under Item 381.3.

**MATERIALS**

Service boxes shall be cast iron. Extension service boxes of the required length and having slide type adjustment shall be installed at all service box locations. The boxes shall have housings of sufficient size to completely cover the service stop and shall be complete with identifying covers.

### **CONSTRUCTION METHOD**

Valve boxes shall be installed vertically, centered over the operating nut, and the elevation of the top shall be adjusted to final grade. Boxes shall be continuously and adequately supported during backfilling to maintain vertical alignment. Backfill around valve boxes and anywhere excavation is made in the street shall be compacted in 12-inch lifts.

### **MEASUREMENT AND PAYMENT**

Payment under Item 381 shall be at the Contract Unit price per Each, which prices shall be full compensation for all labor, equipment, materials to furnish and install new service boxes, to remove and dispose of old boxes not fit for reuse, and all incidentals necessary to set it to the proper finish grade elevation and complete all work to the satisfaction of the Engineer.

Payment under Item 381.3 shall be at the Contract Unit price per each, which prices shall be full compensation for all labor, equipment, materials to adjust boxes to proper finish grade elevation, and all incidentals necessary to complete the work to the satisfaction of the Engineer.

Payments shall not be made for castings that have not been correctly adjusted to the proper finished grade elevation satisfactory to the Engineer.

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<b>ITEM 415.15.</b>	<b>PAVEMENT MILLING</b>	<b>SQUARE YARD</b>
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### **DESCRIPTION**

Work under this Item shall conform to the relevant provisions of Subsection 120.66 and consist of the removing bituminous concrete from the roadway, as directed by the Engineer.

This work shall consist of preparing a foundation for the placement of surfacing courses by the removal of bituminous material to the depths indicated on the plans. The Contractor shall exercise care in the removal of pavement around manholes, catch basins, gates, etc.

The Contractor is advised that under certain conditions ( i.e. bus traffic, emergency vehicle access, arterial roadways, etc.) vehicular traffic flow must be maintained, therefore the Contractor must be prepared to accommodate vehicular travel throughout the project zone for the entire duration of the project while these process' are underway as it shall not be impaired.

### **EQUIPMENT**

The milling machine, and any other motorized vehicular equipment, shall be equipped with taillights, headlights, and necessary reflectors so that they can be operated in traffic with complete safety.

The milling machine shall be adjustable as to crown and depth. The equipment shall be demonstrated to have been operated successfully on similar work completed prior to the award of this contract.

The equipment shall be capable of accurately and automatically establishing profile grade along each edge of the machine (within 1/8-inch more or less) by referencing from the existing pavement by means of a ski or matching shoe controlling cross slope at a given rate.

The machine shall be capable of being operated at speeds from 18 to 40 feet per minute and designed so that the operator can, at all times, observe the operations without leaving his control area.

The equipment furnished by the Contractor shall be in good repair and shall be maintained so as to produce a clean cut into the pavement at all times.

The machine shall be equipped with an integral loading and reclaiming means to immediately remove material being cut from the surface of the roadway and discharge the cuttings into a truck, all in one operation. All planning machinery shall be equipped with dust control devices to prevent any dust produced in the cutting operation from escaping into the air, in compliance with EPA air quality standards. The equipment shall meet the standards set by the Air Quality Act for noise and pollution. This machine shall be equipped with a floating moldboard cutting device which is behind the mandrel and such moldboard must have an infinitely variable down pressure from 0-300 P.S.I.

Supplemental equipment of a smaller scale, capable of performing milling functions around and about roadway structures, and/or other similar areas which are not commonly accessible to the primary milling machinery, shall be utilized by the Contractor to 'detail' the work zone and to ultimately complete the milling operation.

Milling machines mounted on pneumatic tires will not be employed except for trimming and clean-up operations.

## **CONSTRUCTION METHOD**

The milling machine shall be delivered to the project limits on a trailer. The machine shall be loaded on to the trailer to be transferred from work site to work site. The Contractor shall not "walk" the machine to the next site unless prior approval from the Engineer is granted.

No roadway milling is to be undertaken until the Contractor has established construction signs and/or safety devices around and about the project zone periphery. To that end the Contractor shall not commence operations until he has verified that semi-permanent signs (i.e. 'Road Under Construction') and/or daily signing, (i.e. 'Detour') has been appropriately established. The Contractor shall be responsible for establishing supplemental signage, and/or safety devices, as he deemed necessary in order to further provide for the safety of the pedestrian and the motoring public, as well as for affording him the opportunity of moving his milling process forward without interruption. Under this clause the Contractor shall work closely with the Engineer in order to coordinate the signing activities in a timely and reasonable manner. Said devices shall conform to the Temporary Traffic Control section of the most recent version of the Manual on Uniform Traffic Control Devices (MUTCD). Further, due to the nature of this work, the Contractor shall be required, from time to time, to erect, move, relocate, repair, and/or to remove at days end, any site sign in order to either expedite his work or to otherwise accommodate the safety and/or delineate the project zone and/or its active or inactive detour status and route line, and this work shall be done either at his discretion and/or at the request of a City of Newton Agent(s) or Officer. Non-compliance with any such request, as herein described, shall be grounds for the City to halt work until such remedial measures have been taken, and any such loss of time by the Contractor shall be at his own expense.

Once the milling process has begun the Contractor is obliged to carry this effort forward without interruption, yet in accordance with all work hour restrictions unless otherwise directed by the Engineer

Milling operations shall not be limited to just the primary roadway surface, but shall also extend into the adjacent intersections as well. The limit of this work shall be determined 'in the field' by the Engineer so as to best meet the existing conditions and to further provide for a smooth pavement transitioning.

No asphalt millings shall remain on-site at the end of each day. Material resulting from the operation shall become the property of the Contractor and disposed of at a Contractor-furnished disposal site. Existing catch basins shall be protected in place to not allow loose material to enter structures, at no additional cost to the City.

Milled surfaces shall be squared off and transitioned for the full width of the pavement at the end of each day. Adjustment of structures shall be made under the appropriate items of the contract with one adjustment payment allowed per structure under those respective items. Milling shall be varied to the extent practical in order to meet these grades with the proposed

overlay.

Immediately upon completion of the milling (i.e. ‘detailing’) operation performed around and about manholes, catch basins, any other exposed roadway structures, and pavement edges and transitions **THE CONTRACTOR SHALL APPLY A BRIGHT RIBBON OF ORANGE FLUORESCENT PAINT** on the projecting face of the obstacle, such that oncoming traffic is made aware of the hazards presence. In the event the milling operation has caused any casting to project more than one and a half (1 ½) inches above the milled surface of the roadway then the Contractor shall also minimally provide either a stabilized three foot (3) high traffic cone on the casting, in addition to the paint, until such time as other remedial measures can be taken, or a provide a temporary paved berm installed under its respective item. **The Contractor shall maintain all protection of raised structures and transitions each and every day until the final paving course is placed. Any damage or claims resulting from raised structures or transitions shall be the full responsibility of the Contractor.**

Immediately after the roadway has been milled, the Contractor shall provide temporary asphalt transitions at all curb cut locations and at any driveway location measuring a depth to roadway greater than three (3) inches. Transition ramp slopes shall not exceed five percent (5%). This work shall be paid for under its respective item.

**The work shall be scheduled such that overlay pavement is placed within 10 business days of the completion of the milling operation. Exceptions will be determined by the Engineer in the event that excessive pavement/trench/structure repair is required on a particular roadway.**

**MEASUREMENT AND PAYMENT**

The quantity of pavement milling to be paid for under this Item shall be equal to the actual area milled, measured by the square yard regardless of depth and number of passes, complete as indicated in the Contract Documents or as otherwise directed by the Engineer. No additional compensation shall be made for multiple passes.

Payment for work completed shall be at the Contract Unit Price bid per Square Yard and shall include full compensation for all labor, materials, equipment, and incidentals necessary to mill pavement, transport millings, cleaning including mechanical sweeping of the entire road area to remove all remaining asphalt cuttings and debris, and prepare pavement surface to the satisfaction of the Engineer. Any additional handwork or jackhammering needed to remove bituminous or cement concrete from around structures shall be included under this Item with no additional compensation.

<b>ITEM 450.23</b>	<b>SUPERPAVE SURFACE COURSE - 12.5 (SSC - 12.5)</b>	<b>TON</b>
<b>ITEM 450.32</b>	<b>SUPERPAVE INTERMEDIATE COURSE – 19.0 (SIC - 19.0)</b>	<b>TON</b>
<b>ITEM 451.</b>	<b>HMA FOR PATCHING</b>	<b>TON</b>

**DESCRIPTION**

Work under these items (including incidentals for Asphalt Emulsion for Tack Coat and/or Joint Sealant) shall conform to the relevant provisions Section 450 and the following:

The PGAB Grade selected for this Contract is **PG 64-28**. The emulsion under this specification shall be Grade RS-1H and shall meet the requirements of AASHTO M 140.

The Contractor is advised that roadway paving operations shall be performed at nighttime and labor, tools, materials and equipment required to perform night work in accordance with the requirements of the Engineer shall be considered part of the work of this section.

All required sawcutting in the existing pavement in accordance with Sections 450 will be incidental to the contract items.

**CONSTRUCTION METHOD**



Prior to placing SUPERPAVE pavement over prior course, the Contractor shall spread suitable asphalt emulsion tack coat meeting the requirements of the Standard Specifications, to ensure a proper bond between the two layers of pavement. The tack coat must be applied by a tack truck.

Contractor is responsible for cutting all keys to match existing pavement to the SUPERPAVE pavement. All key cuts will be sealed on the same day as the paving is completed. All joint locations and vertical surfaces where proposed pavement meets existing pavement shall be sealed with hot poured rubberized asphalt sealer.

Price for asphalt emulsion tack coat, cutting of keys, and asphalt sealer will be included in this Item.

### **Tack Coat**

Material for this work shall conform to the requirements of Subsection 460.62 of the Standard Specifications.

Tack coat will be used at the rate of .05 to .10 GAL/SY applied by a tack wagon prior to placement of the next pavement course, unless waived by the Engineer. Tack and sand shall be applied to all joints immediately after paving or as directed by the Engineer. Use of tack or tack and sand shall be considered incidental to the work of this Item.

### **Hot Poured Rubberized Asphalt Sealer**

Hot Poured Rubberized Asphalt Sealer shall be placed a paving joints including the centerline and shall be considered incidental to the work of this Item.

Material for this work shall conform to the requirements of M3.05.0 of the Standard Specifications.

All transverse joints and all longitudinal joints of the surface course shall be treated prior to laying the next lane of SUPERPAVE asphalt as follows:

The joint shall be coated with a hot poured rubberized asphalt sealant meeting the requirements of M3.05.0. When using pavers in tandem, the use of the hot poured rubberized asphalt sealer may be omitted at the discretion of the Engineer, if the temperature of the mixture at the longitudinal joint does not fall below 200°F (95°C) prior to the placement of the adjacent mat. No re-heating of the joint shall be permitted.

The hot poured rubberized asphalt shall be applied to the joints from a double-jacketed heating kettle with a positive drive gear pump that is connected to a suitable applicator. The nozzle of the applicator shall be set to deliver sufficient sealant to effectively bond and seal the transverse and longitudinal paving joint between two adjacent lanes of asphalt.

Longitudinal and transverse joints shall be made in a careful manner, well bonded and sealed, and true to line and grade. Where and as directed, transverse joints for all courses and longitudinal joints for the top course placed under this or previous contracts shall be cut back to expose the full depth of the course and, when the laying of the course is resumed, the exposed edge of the joint shall be treated as above.

In making joints along any adjoining edge such as curb, gutter or an adjoining pavement, and after the mixture is placed by the mechanical spreader, just enough of the hot material shall be placed by hand method to fill any space left open. These joints shall be properly "set-up" with the back of a rake at the proper height and level to receive the maximum compaction. The work of "setting-up" these joints shall be performed only by competent workmen. Where and as directed, the first width of any course shall be placed not less than one foot wider than the first width of top course, and successive widths of top and as any other courses shall be so placed that there will be at least a one (1) foot overlap between the joints in the top course and the other course.

The rolling of the successive widths of courses shall overlap and shall be performed so as to leave smooth, uniform joints and cross sections.

### **Warm-Mix Asphalt Additive**

No Hot Mix Asphalt mixtures shall be modified using a WMA additive.

## **Special Requirements for Nighttime Paving Operations**

The Contractor shall take every action to ensure that the nighttime activities are conducted as quietly as possible. To that end the Engineer reserves the right to disallow the Contractor from using equipment and/or personnel which, in his opinion, are noisy and/or are disruptive to the general peace of the neighborhood in which the work is taking place. In the event the Engineer deems an individual(s) and/or a piece of equipment to be disruptive, noisy or otherwise contrary to the intent of this order then the Contractor shall immediately dismiss the individual(s) and/or replace the non-compliant equipment.

Back-up alarms for nighttime operations: Trucks and/or other wheeled equipment used during the nighttime operations shall be equipped with switches which shall disable the back-up alarms while such equipment is on the site. However no alarm is to be disengaged until the watchman, an individual(s) assigned to the solitary task of aiding and guiding each piece of equipment into position as it moves in its rearward direction, has issued the order to do so. To that end no piece of equipment is to reverse its direction unless the watchman assigned to guide it is fully in control of the rearward/reverse motion of the vehicle. Such guidance procedures between the watchman and the driver of the equipment shall be by a positive means, such as two-way communication devices, flashlights or the like, or by a combination of several acceptable means which will ultimately protect both people and property from harm. The intent of this order is to minimize the noise level but never to jeopardize the health and welfare of any party. Upon completion of the rearward movement the watchman shall immediately instruct the driver of the vehicle to reactivate the back-up alarm.

In the event of a conflict the Contractor shall comply with the latest OSHA requirements which shall take precedence over these instructions.

During nighttime operations all workmen shall be outfitted with OSHA approved reflective-type safety vests. In addition, the Contractor shall supply working flashlights, of no-less than a 'two-D battery type', to all Police Officers, and to the Engineer(s), for their use during the course of nighttime operations.

### **Illumination for nighttime operations:**

Generators and wiring shall conform to the Massachusetts Electrical Code, OSHA safety standards and each device shall be UL listed.

All portable lighting shall be positioned along the roadway in such a manner that it does not conflict with the flow of traffic, pedestrian access or with the paving operation(s), but ultimately provides substantial and adequate lighting so that all activities are performed in a safe environment for all parties, while at the same time ensuring that the applied pavement is easily seen and is installed to the satisfaction of the Engineer and in accordance with these specifications.

Illumination shall be accomplished with metal halide floodlights, firmly mounted to a stable frame, and all floodlights are to be fitted with tempered glass or polycarbonate lenses securely fastened to the housing to prevent personal injury in the event of lamp breakage.

Illumination for every process shall be by an adequate number of floodlights that allows all areas of the pavement and/or processing areas to be clearly seen. Floodlights may range from 250 watt to 1500-watt metal halide lamps which are aimed in such a manner that shadows are eliminated along the traveled way and glare from the lamps does not interfere with motorists.

Each cold-planer or skid steer units shall be equipped with a two (2) unit light cluster on both front and back. A single cluster with two units (one wide beam and one narrow beam) aimed towards the front and two (one wide beam and one narrow beam) towards the back may be used. The positioning of these clusters shall provide the driver with a clear and unobstructed view of the roadway surface under construction.

Two (2) pick-up trucks equipped with a two (2) unit adjustable light cluster on both front and back shall be provided by the Contractor. A single cluster with two units (one wide beam and two narrow beam) aimed towards the front and two (one wide beam and two narrow beam) towards the back may be used. The positioning of these units shall be at the discretion of the Engineer but in the absence of a direct order from the Engineer the Contractor shall keep these portable



units in constant use to illuminate the work area(s) to provide a clear and unobstructed view of the roadway surface under construction.

The Contractor shall ensure that a variety of replacement lamps are readily available on the site and in the event there is a lamp failure the Contractor shall immediately replace the defective device without compromising the safety of people and/or property.

If in the opinion of the Engineer the illumination is substandard then the Engineer reserves the right to stop work, and his decision shall be final.

No compensation will be due the Contractor if work is stopped because of substandard illumination and/or defective lighting equipment, generators, and/or any other equipment. 'Substandard' and/or 'defective' shall include excessive noise, inclusive of personnel.

In the event of a conflict the Contractor shall comply with the latest OSHA requirements which shall take precedence over these instructions.

**The work shall be scheduled such that overlay pavement is placed within 10 business days of the completion of the milling operation. Exceptions will be determined by the Engineer in the event that excessive pavement/trench/structure repair is required on a particular roadway.**

#### **MEASUREMENT AND PAYMENT**

Tonnage shall be determined by weight slips submitted to the Engineer. Also, this number will be verified by the inch per square yard method of determining tonnage (inches of approved thickness, multiplied by square yard unit measurement, multiplied by the volume to weight conversion factor of 0.056 tons/inch/square yard).

Payment under this Item shall be at the Contract Unit Price bid per Ton, complete in place; which price shall be considered full compensation for all labor, equipment, materials, and incidentals, including tack coat, as necessary to complete the work to the satisfaction of the Engineer. This price shall also include all necessary work to prepare the pavement surface, including street sweeping, as well as any requirements as listed in Section 450 contained herein that are not covered under other specified payment items.

<b>ITEM 472.</b>	<b>ASPHALT MIXTURES FOR TEMPORARY WORK</b>	<b>TON</b>
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#### **DESCRIPTION**

Work under this Item shall conform to the relevant provisions of the Standard Specifications, the Material Specification of for Item 460 noted herein and the following:

Hot mix asphalt for miscellaneous work shall be used to provide temporary access and egress to those properties abutting the work area as determined by the Engineer. It shall also be used for temporary restoration of pavement surface after the installation of drainage pipes, conduits, where not included in the payment of other items of this contract and where such areas are specified by the Engineer. It shall also be used to safeguard raised utility structures as approved or directed by the Engineer.

#### **CONSTRUCTION METHOD**

Asphalt mixtures for temporary work shall be placed only upon the direction of the Engineer; to the thickness directed and compacted to the satisfaction of the Engineer.

#### **MEASUREMENT AND PAYMENT**

Compensation for this Item shall be paid for at the Contract Unit Price per Ton, which price shall include all labor, materials, equipment for surface preparation, placement, maintenance and removal, and incidental costs necessary to complete the work to the satisfaction of the Engineer. The Contractor shall be required to maintain areas of temporary pavement in reasonable repair, as determined by the Engineer, and not be compensated for additional materials, labor and incidentals required to do so.

No payment will be made for roadway patching done outside the excavation pay limits shown on the plans.

The subsequent removal of this material, if directed by the Engineer, shall also be included in this Item.

<b>ITEM 503.</b>	<b>GRANITE CURB TYPE VA3 – STRAIGHT</b>	<b>FOOT</b>
<b>ITEM 504.</b>	<b>GRANITE CURB TYPE VA4 – STRAIGHT</b>	<b>FOOT</b>
<b>ITEM 504.1</b>	<b>GRANITE CURB TYPE VA4 – CURVED</b>	<b>FOOT</b>
<b>ITEM 509.</b>	<b>GRANITE TRANSITION CURB FOR WHEELCHAIR RAMPS – STRAIGHT</b>	<b>FOOT</b>
<b>ITEM 509.1</b>	<b>GRANITE TRANSITION CURB FOR WHEELCHAIR RAMPS – CURVED</b>	<b>FOOT</b>

**DESCRIPTION**

Work under these Items shall conform to the relevant provisions of Section 500, the City of Newton Standard Specification and General Construction Details, the direction of the Engineer or as supplemented and amended as follows:

The work under Items shall include furnishing and installing granite curb, Type VA/VB, including straight or curved sections, splayed or transition pieces for wheel chair ramps, and curb inlets with measurement made on a foot basis measures along the centerline axis of the curb piece. Six (6) foot pieces shall be used at curb inlets. Curb inlets shall be paid for under Item 504. The length of transition pieces shall be installed to meet all ADA Standards, slopes, and requirements.

**CONSTRUCTION METHOD**

Curb inlets shall be installed at catch basins, wherever possible and at the direction of the Engineer.

All new curbing shall be provided with concrete support, as shown on the construction detail. Concrete support shall be provided on both sides of curbing that does not have a hard surface backing it up. Concrete for curb lock shall not extend further than two (2) inches below finish roadway elevation. Cost of all concrete support shall be included in the price bid for curb.

Where granite curb is used to stabilize areas of cut at the back of a sidewalk or wheelchair ramps, it shall be measured and paid for under Items 503./504. and 504.1 respectively.

Existing curbing to be reused shall be installed in continuous sections and shall not be intermingled with new curbing. Any interim stacking or other extra handling or relocating of the curb shall be considered for the Contractor’s convenience and not cause for additional compensation.

Granite curbing directed to be removed and stacked will become the property of the City and shall be removed, transported, and stacked at the Department of Public Works yard at **60 Elliot Street in the Newton Highlands.**

**MEASUREMENT AND PAYMENT**

Payment shall be at the Contract Unit Prices bid per Foot (or per each for inlets) for furnishing and installing new granite curb of all types, complete in place including sawcutting, excavation, fine grading and compacting of both subbase and existing subgrade, concrete support, backfill and removing/stacking and discarding of all types of curb. Incidental to the work of this Item will be the removing and disposing of existing curb.

**DESCRIPTION**

The work under this Item shall conform to the relevant provisions of Section 670 of the Standard Specifications and consist of the furnishing, installing, maintaining, and removing silt sacks from all catch basins, drop inlets, and gutter inlets within the limit of work, or otherwise required.

**MATERIALS**

Silt sacks shall be made out of woven polypropylene geotextile fabric and sewn by a double needle machine, using a high strength nylon thread. Devices shall be ACF Environmental (800)-448-3636; Reed & Graham, Inc. Geosynthetics (888)-381-0800; The BMP Store (800)-644-9223; or approved equal.

Silt sacks shall be manufactured to fit the opening of the catch basins and all curb openings shall be blocked to prevent stormwater from bypassing the device. Silt sacks shall be manufactured with two dump straps attached at the bottom of the silt sack. Silt sacks shall have a ¼-inch nylon expansion restraint rope with two (2) inch flat washers to keep the sides of the silt sacks away from the catch basin walls. Silt sacks shall be manufactured so that they have a certified average wide width strength per ASTM D-4884 standards of 165.0 lb./in for regular flow.

**CONSTRUCTION METHOD**

When the expansion restraint rope is covered with sediment, the silt sack shall be emptied, cleaned, and placed back into the catch basin.

All material removed from the silt sacks shall be properly handled and disposed of by the Contractor, and this must be done in accordance with all DEP regulations, policies, and guidance and at no additional cost to the City. The responsibility for the proper handling and disposal of this material shall be solely the Contractor's.

Material removed from silt sacks shall be transported immediately to the place of disposal in machines or trucks that will not spill the material along the roadway. Any material falling on the roadway shall be removed at the Contractor's own expense.

Silt sack cleanings are classified as a solid waste by the Massachusetts Department of Environmental Protection (DEP) and may be disposed of at any landfill that is permitted by DEP to accept solid waste. Materials containing free-flowing liquids are prohibited from being accepted at landfills. The DEP encourages the beneficial reuse of this material whenever possible; however, use not in accordance with DEP determination, or disposal or use as fill in an unapproved location is not acceptable.

It is anticipated that most, if not all, of the material will be landfilled, therefore the Contractor should be aware that many landfills may require testing and analysis of the material prior to accepting it for disposal at the facility.

The Contractor should be aware that in the event that the test results indicate a hazardous waste that cannot be landfilled, the Contractor shall be responsible for all costs associated with adhering to special regulations regarding disposal of hazardous waste. The Contractor should take this into consideration in preparing the bid.

Silt sacks shall remain in place until the placement of the pavement overlay or top course and the graded areas have become permanently stabilized by vegetative growth. All materials used for the silt sacks will become the property of the Contractor and shall be removed from the site.

The Contractor shall inspect the condition of silt sacks after each rainstorm and during major rain events. Silt sacks shall be cleaned periodically to remove and dispose of accumulated debris as required. Silt sacks, which become damaged during construction operations, shall be repaired or replaced immediately at no additional cost to the City.

When emptying the silt sack, the contractor shall take all due care to prevent sediment from entering the structure. Any silt or other debris found in the drainage system at the end of construction shall be removed at the Contractor's expense. The silt and sediment from the silt sack shall be legally disposed of offsite. Under no condition shall silt and sediment from the insert be deposited on site and used in construction.

When the silt sacks are removed after the work has been completed, the Contractor shall clean and flush all drainage structures as incidental to this item.

**MEASUREMENT AND PAYMENT**

Silt sacks will be paid for at the Contract Unit Price bid per each, complete in place, which price shall include all labor, materials, equipment and incidental costs required to complete the work. No separate payment will be made for testing, inspections, maintenance, removal and disposal of the sediment from the insert or for the final removal and disposal of the silt sack, but all costs in connection therewith shall be included in the Contract Unit Price Bid.

<b>ITEM 701.</b>	<b>CEMENT CONCRETE SIDEWALK</b>	<b>SQUARE YARD</b>
<b>ITEM 701.1</b>	<b>CEMENT CONCRETE SIDEWALK AT DRIVEWAYS</b>	<b>SQUARE YARD</b>

**DESCRIPTION**

The work under these Items shall conform to the relevant provisions of Section 701 and include installation of cement concrete sidewalks, walks, and driveway aprons.

All work shall conform to the latest edition of the MassDOT and ADA Standards, including the MassDOT 2017 Construction Standards.

The Contractor is hereby notified that they are ultimately responsible for constructing all project elements in strict compliance with the current AAB/ADA rules, regulations and standards.

The AAB Rules and Regulations specify maximum slopes and minimum dimensions required for construction acceptance. There is no tolerance allowed for slopes greater than the maximum slope, nor for dimensions less than the minimum dimensions.

**CONSTRUCTION METHOD**

The Contractor shall apply Lamp Black into the concrete mixture per City standards at the rate of 2 lbs./c.y.

On the foundation of fine graded and compacted subbase, the concrete shall be placed in such quantity that after being thoroughly consolidated in place sidewalks shall be four (4) inches in depth, and driveways shall be six (6) inches in depth (which shall extend from the outer most limits of the driveway transition curbs where they meet the straight curb reveal) or as required by the Engineer

All driveway joints and transition sections which define grade changes shall be formed, staked and checked prior to placing cement concrete. All grade changes are to be made at joints.

Sidewalks and Drives shall be constructed in accordance with requirements of the Standard Specifications, including placement of alternating sections, 30 feet in length and provided with expansion joints. Expansion filler shall also be used at pours against buildings, walls or other hard objects.

All concrete work shall be in accordance with the procedures of NRMCA CIP-14 (Appendix B) regarding strike off and finishing operations and timing. If an evaporation retarder is required due to hot weather conditions, ensure that the evaporation retarder is applied in strict compliance with the manufacturer's recommendations. An evaporation retarder

should not be used as a finishing aid. The Contractor shall cure the surface using a curing membrane meeting the requirements of ASTM C 309/1315 Type 1 Class B (Cureshield EX or equal)

Contractor is responsible for securing areas with curing concrete, and shall supply barricades or watchmen, as necessary to prevent defacement of concrete surfaces. The Contractor shall be responsible for maintaining new concrete work and shall insure that no defects, markings, or damage by vandals or animals occurs. It shall be the responsibility of the Contractor to replace any damaged portions of the work at their own expense.

## **MEASUREMENT AND PAYMENT**

Payment under this Item shall include temporary removal and resetting of obstructions (such as fences) for the purposes of forming and placing sidewalks, at no expense to the Owner. The Contractor shall be responsible for the removal, safeguarding, stockpiling, and resetting of obstacles. If the obstacle cannot be reset, the Contractor will be responsible for furnishing and installing in-kind new fixtures, at no cost to the City.

Payment for Sidewalks and Driveways shall be at the respective Contract Unit Prices bid per Square Yard complete in place, to the satisfaction of the Engineer, including but not limited to, all saw cutting, fine grading and compaction of both subbase and existing subgrade, expansion joints, protection and finishing including curing compounds or other additives. Payment shall also include temporary removal of obstructions for the purposes of forming and pouring sidewalks or driveways.

The reconstruction of all items included in restoring steps, walls, and other abutting structures shall be considered incidental to the work of this section.

<b>ITEM 701.2</b>	<b>CEMENT CONCRETE WHEELCHAIR RAMP</b>	<b>SQUARE YARD</b>
<b>ITEM 701.21</b>	<b>DETECTABLE WARNING PANEL</b>	<b>EACH</b>

## **DESCRIPTION**

The work under this Item shall conform to the relevant provisions of Section 701 of the Standard Specifications, the plan details and the following:

All work shall conform to the latest edition of the MassDOT and ADA Standards, including the MassDOT 2017 Construction Standards.

The Contractor is hereby notified that they are ultimately responsible for constructing all ramps in strict compliance with the current AAB/ADA rules, regulations and standards.

The AAB Rules and Regulations specify maximum slopes and minimum dimensions required for construction acceptance. There is no tolerance allowed for slopes greater than the maximum slope, nor for dimensions less than the minimum dimensions.

## **CONSTRUCTION METHOD**

The Contractor shall apply Lamp Black into the concrete mixture per City standards at the rate of 2 lbs./c.y.

The wheelchair ramp at 47+80 LT shall be reinforced as indicated on the plans as part of the work of this section.

On the foundation of fine graded and compacted subbase, the concrete shall be placed in such quantity that after being thoroughly consolidated in place it shall be eight (8) inches in depth or as required by the Engineer

All concrete work shall be in accordance with the procedures of NRMCA CIP-14 (Appendix B) regarding strike off and finishing operations and timing. If an evaporation retarder is required due to hot weather conditions, ensure that the

evaporation retarder is applied in strict compliance with the manufacturer's recommendations. An evaporation retarder should not be used as a finishing aid. The Contractor shall cure the surface using a curing membrane meeting the requirements of ASTM C 309/1315 Type 1 Class B (Cureshield EX or equal)

All wheelchair ramp joints and transition sections which define grade changes shall be formed, staked and checked prior to placing cement concrete. All grade changes are to be made at joints.

Detectable warning panels shall be installed as detailed in MassDOT Construction Standards Details E 107.6.5, dated 2017. The tile shall conform to Americans with Disabilities Act (ADA) requirements, shall be Cast-in-place Truncated Dome replaceable composite tactile panels, 60 inches by 24 inches, and the color shall be Federal Yellow.

Detectable warning panels shall be manufactured by, or approved equal:

ADA Solutions, Inc.  
P.O. Box 3  
North Billerica, MA 01862  
1 (800) 372-0519  
www.adatale.com

Any variation from this specification shall only acceptable with the written approval of the Engineer. Shop drawing submissions shall include each specified item and be submitted illustrating color.

Contractor is responsible for securing areas with curing concrete, and shall supply barricades or watchmen, as necessary to prevent defacement of concrete surfaces. The Contractor shall be responsible for maintaining new concrete work and shall insure that no defects, markings, or damage by vandals or animals occurs. It shall be the responsibility of the Contractor to replace any damaged portions of the work at their own expense.

## **MEASUREMENT AND PAYMENT**

Payment under this Item shall include temporary removal and resetting of obstructions (such as fences) for the purposes of forming and placing sidewalks, at no expense to the Owner. The Contractor shall be responsible for the removal, safeguarding, stockpiling, and resetting of obstacles. If the obstacle cannot be reset, the Contractor will be responsible for furnishing and installing in-kind new fixtures, at no cost to the City.

Payment shall be by the Contract Unit Price bid per Square Yard for Wheel Chair Ramps, regardless of depth, from the out extents of the transition curbs, and shall include all saw cutting, fine grading and compaction of both subbase and existing subgrade, expansion joints, protection, finishing including curing compounds or other additives , and all other incidental items required to finish the work to the satisfaction of the Engineer. Payment shall also include temporary removal of obstructions for the purposes of forming and pouring wheel chair ramps.

Payment shall be by the Contract Unit Price bid per Each for Detectable Warning Panels, and shall include furnishing and all work necessary to install detectable warning panels to ADA requirements.

The reconstruction of all items included in restoring steps, walls, and other abutting structures shall be considered incidental to the work of this section.

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<b>ITEM 703.</b>	<b>HOT MIX ASPHALT DRIVEWAY</b>	<b>TON</b>
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### **DESCRIPTION**

Work under this Item shall conform to the relevant provisions of Section 701, supplemented and amended as follows:

The work under this Item shall conform to the relevant provisions of Section 700 and 460 and include hot mix asphalt



driveways, especially areas where newly constructed cement concrete sidewalks and driveways meet existing asphalt driveways. Saw cutting of up to six (6) inches of bituminous concrete or providing a key way necessary to provide a stable joint with existing asphalt will be considered incidental to the handwork installation. No additional compensation will be made for saw cutting asphalt or cutting a keyway.

On the foundation of fine graded and compacted subbase, the asphalt shall be placed in such quantity that after being thoroughly compacted in place driveways shall be four (4) inches in depth (which shall extend from the outer most limits of the driveway transition curbs where they meet the straight curb reveal) or as required by the Engineer.

**MEASUREMENT AND PAYMENT**

Payment under this Item shall include temporary removal and resetting of obstructions (such as fences) for the purposes of forming and placing sidewalks, at no expense to the Owner. The Contractor shall be responsible for the removal, safeguarding, stockpiling, and resetting of obstacles. If the obstacle cannot be reset, the Contractor will be responsible for furnishing and installing in-kind new fixtures, at no cost to the City.

Payment shall be made at the contract unit price bid per ton of hot asphalt placed and shall include all labor, equipment and materials necessary for placement, including but not limited to, all saw cutting, fine grading and compaction of both subbase and existing subgrade, tack coat, asphalt sealer, protection and finishing.

The reconstruction of all items included in restoring steps, walls, and other abutting structures shall be considered incidental to the work of this section.

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**ITEM 707.8** **STEEL BOLLARD** **EACH**

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

**MEASUREMENT AND PAYMENT**

Payment under this item shall be made at the Contract Unit Price bid per Each, complete in place, which price shall include all labor, materials, equipment and incidental costs required to complete the work as shown in the construction details, including but not limited to, installation of 4 inch galvanized steel pipes at locations shown on the plans, excavation, cement concrete, paper board form, paint, tape and all incidental expenses.

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**ITEM 711** **BOUND REMOVED AND RESET** **EACH**

**DESCRIPTION**

Work shall be in accordance with Standard Specifications, standard details, and 250 CMR. The exact location of bounds, if required by the work, shall be set by a Massachusetts registered professional land surveyor in good standing. Plans shall be provided showing coordinates and ties for bound locations.

Existing bounds disturbed by the Contractor (horizontally and/or vertically) shall be reset or replaced new, at the Contractor's own expense.

The bound shall be certified by a Massachusetts registered professional land surveyor prior to the acceptance by the City of Newton. This shall be considered incidental to the project.

**MEASUREMENT AND PAYMENT**

Payment under Item 711 shall be made at the Contract Unit Price bid per Each, which price shall be full compensation for removing and resetting of existing bounds done at the direction of the Engineer (not previously damaged by the



Contractor), services of a registered professional land surveyor, submission of a plan, and all necessary or incidental materials and labor including documentation of the exact location, complete in place.

The resetting of existing bound disturbed by the Contractor shall not be considered for payment.

<u>ITEM 751.</u>	<u>LOAM BORROW</u>	<u>CUBIC YARD</u>
<u>ITEM 765.</u>	<u>SEEDING</u>	<u>SQUARE YARD</u>

**DESCRIPTION**

The work under these Items shall conform to the relevant provisions of Section 751, 765, 767, 770 and as supplemented below. Work includes the placement of approved loam borrow, lime, fertilizer, and hydro seeding to restore all disturbed grassed areas as authorized by the Engineer.

**CONSTRUCTION METHOD**

Loam Borrow shall meet with Material Specifications M1.07.0. Loam Borrow shall pass a 3/8” screen and laid in a minimum depth of 4” after compacted and shall be free of grass and other unsuitable. The placement of new loam borrow shall be as follows.

In new areas or areas of significant disturbance, loam borrow shall be placed with a minimum depth of four (4) inches after compaction. In existing grass areas to remain, or where there is minimal disturbance to the surface, depressions shall be filled and a top dressing of loam borrow shall be applied to a general depth of one (1) inch after compaction. Prior to the application of the top dressing, the Contractor shall be required to mechanically aerate these areas by a means acceptable to the Engineer. Loam Borrow shall be used to fill depressions and shape the surface to provide for proper flow of drainage, as well as enhance the general appearance of these grassed areas. Areas adjacent to curbs and other such hard surfaces shall be pre-worked and tapered down one (1) to two (2) inches so as to allow the top dressing to end up flush with the hard surface.

Lime shall be ground limestone containing not less than 95% calcium and magnesium carbonates. Lime shall be applied at a rate of 75 to 100 lbs. per 1,000 square feet prior to seeding.

Hydro seeding shall conform to the requirements of Section 765.65. The hydro seed mixture shall be applied at a rate sufficient to promote lush rapid growth of grass. Fertilizer shall be a complete commercial fertilizer, 10-20-20 grade. Fertilizer in the hydro-seed mixture shall be applied at the rate of 30 lbs. per 1,000 square feet and seed in the hydro-seed mixture shall be applied at a rate of at least 120 lbs. per acre or three (3) lbs. per 1,000 square feet.

The Contractor shall be responsible for watering the hydro seeded areas daily for a minimum of two (2) weeks or until the grass has become established.

**MEASUREMENT AND PAYMENT**

Payment under Item 751 shall be the Contract Unit price bid per cubic yard, which price shall be full compensation for preparing surfaces including fine grading and compaction of existing subgrade; furnishing, placing, raking, shaping and tamping new loam borrow; and furnishing and applying lime.

Payment under Item 765 shall be the Contract Unit price bid per square yard, which price shall be full compensation preparing the loam surface, furnishing and applying hydro-seed, inclusive of fertilizer, as well as the maintenance of hydro-seeded areas as noted above.

**Payment shall be made as follows: 85 percent of the complete installed quantity will be paid at the time of initial seeding. The remaining, 15 percent, will be paid when the newly seeded areas have been accepted by the Engineer.**



The Contractor shall furnish, erect, maintain, wash, move, adjust, repair, relocate, re-erect, and store all temporary construction signs, sign mountings, portable barricades, traffic cones, drums, delineators, and other warning devices when, where, and as specified.

## **CONSTRUCTION METHOD**

Temporary Traffic Control devices shall cover all work related to the furnishing, installation, maintenance, and movement of traffic protective devices on the project. The Contractor shall provide a sufficient number of signs and other warning devices as required by the nature of the work as determined by the MUTCD and/or the Engineer. Devices that do not meet or exceed MUTCD standards will not be considered an acceptable means for temporarily controlling traffic.

When, in the opinion of the Engineer, the sign or device shall be so severely damaged as to warrant replacement, the Contractor shall provide a new device that shall be deemed to be included in this item.

The Contractor shall keep all signs, barricades, and other protective devices in proper position, clean, and legible at all times. Care shall be taken so that weeds, shrubbery, construction materials and equipment, and spoil are not allowed to obscure any sign, lights, or barricade. Signs that do not apply to existing conditions shall be removed or adjusted so that the legend is not visible to approaching traffic. All signs and markers shall indicate actual conditions existing and shall be moved, removed, or changed immediately, as conditions require. When construction is not in progress, all unnecessary signs will be adequately covered.

No work is to be undertaken until the Contractor has established construction signs and/or safety devices around and about the project zone periphery. To that end the Contractor shall not commence operations until he has verified that semi-permanent signs (i.e. 'Road Under Construction') and/or daily signing, (i.e. 'Detour') has been appropriately established. The Contractor shall be responsible for establishing supplemental signage, and/or safety devices, as he deemed necessary in order to further provide for the safety of the pedestrian and the motoring public, as well as for affording the opportunity to move the construction process forward without interruption. Under this clause the Contractor shall work closely with the Engineer in order to coordinate the signing activities in a timely and reasonable manner. Said devices shall conform to the Plans and the Temporary Traffic Control section of the most recent version of the Manual on Uniform Traffic Control Devices (MUTCD). Further, due to the nature of this work, the Contractor shall be required, from time to time, to erect, move, relocate, repair, and/or to remove at days end, any site sign in order to either expedite his work or to otherwise accommodate the safety and/or delineate the project zone and/or its active or inactive detour status and route line, and this work shall be done either at his discretion and/or at the request of a City of Newton Agent(s) or Officer. Non-compliance with any such request, as herein described, shall be grounds for the City to halt work until such remedial measures have been taken, and any such loss of time by the Contractor shall be at his own expense. Any devices provided which are lost, stolen, destroyed or deemed unacceptable while their use is required on the project shall be replaced without additional compensation.

The lump sum for this item shall include full compensation for all labor, equipment, materials and incidentals needed to complete the following:

1. Fabricating, furnishing, erecting, maintaining, removing and relocating the traffic management devices for the overall project during construction activities, complete-in-place, as directed by the Engineer.
2. Providing additional traffic management devices to provide a clear and visible traffic control through the project area, if required.
3. The Contractor shall be required to reposition the traffic control devices as many times as necessary to ensure the safe passage of vehicular traffic and pedestrians. Supplemental signs and traffic control devices directing traffic around and/or through the work zones shall be supplied as operations require or as directed by the Engineer. Payment for these traffic control measures shall be included, as part of this item and no additional payment will be made.
4. At a minimum, traffic control shall include the following:
  - a. Temporary Traffic Control Signs including detour signs as required.
  - b. Channelizing Devices including drum barricades and/or traffic cones, flashing warning lights



As directed by the Engineer the signboard messages shall be composed, changed and/or discontinued as often as necessary, in order to meet the ever-changing messaging requirements of the project and such changes to the composition of the message shall occur with immediacy.

Signboard units shall be placed in conspicuous locations so they, as well as the messages, are easily seen, but at no time shall the units interfere with pedestrian right-of-ways nor vehicular flow. To that end the Contractor must be prepared to coordinate the siting of the units with the Engineer.

Signboards are to be 'leveled' with the roadway surface. Blocking, jacking and/or chocking shall be done in a responsible manner to ensure that the trailer is fully stabilized.

The Contractor is responsible for ensuring that the unit is fully operational at all times, and any repairs, reprogramming, redeployments for solar siting purposes, battery and/or bulb replacements, wholly defective units, units which are rendered unserviceable, or the like, shall be addressed and corrected with immediacy. The intent of this order is to ensure that the continuity of messages are not disrupted and that they are clear and visible at all times within the zone in which the unit is sited.

No signboard units are to be deployed on the project unless pre-approved, authorized and/or ordered by the Engineer in advance of their use.

The Engineer reserves the right to limit the size of the trailer and/or display board to the above noted type should it be deemed in the best interests of the neighborhood's pedestrian and/or traffic flow to do so.

At no time shall any signboard deployed to the site be without a message. The intent of this order is to assure all parties that the board is fully operational while providing 'secondary' messaging during those periods when 'primary' messaging is not required. To that end, once the Engineer has declared that the unit is no longer required the Contractor shall immediately remove it from the site.

The locations of, as well as the actual messages displayed, on the two (2) electronic variable message sign boards shall be determined in the field, by the engineer, changes in which will be required as often as he / she deems necessary to properly inform the public as to critical project activities.

## **MEASUREMENT AND PAYMENT**

The Contractor shall be paid per Calendar Day for each signboard unit approved, authorized and/or ordered by the Engineer. No payment shall be made for any Calendar Days after the Engineer has ordered that the service of the unit is no longer required.

The Contractor will be paid the contract unit price per approved Calendar Day for each signboard unit authorized and/or ordered by the Engineer. The express intent, under this item is to re-use the signboards, moving the signboards from project zone to project zone as the construction operations progress, without any further additional compensation under this item. Under this item signboards are to be furnished and placed which unit price shall include full compensation for all labor, materials, tools and equipment and all incidentals necessary to complete the work under this item, as shown on the plans, as directed by the Engineer and as specified herein.

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<b>ITEM 866.112</b>	<b>12 INCH REFLECTORIZED WHITE LINE (THERMOPLASTIC)</b>	<b>FOOT</b>
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### **DESCRIPTION**

The work under these items consists of furnishing materials and the application of reflectORIZED thermoplastic pavement markings in accordance with these plans and specifications and the Massachusetts Department of Transportation Standard Specifications Section 860 and M7.0. This Item shall consist of furnishing materials and the application of

reflectorized crosswalks, stop lines and raised intersection (speed table) pavement markings in accordance with the Manual on Uniform Traffic Control Devices (MUTCD).

All pavement markings shall be complete and installed **no later than 30 days** after the installation of the final roadway application materials.

## **MATERIALS**

All materials under these items shall adhere to the appropriate items under Section 860 of the Standard Specifications, White Thermoplastic Reflectorized Pavement Markings – M7.01.03.

## **MEASUREMENT AND PAYMENT**

Payment under this item shall be made at the Contract Unit Price bid per Foot for furnishing and applying pavement markings complete in place, which unit price shall include full compensation for all labor, materials, tools and equipment and all incidentals necessary to complete the work under these items as shown on the plans, as directed by the Engineer and as specified herein.

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<b>ITEM 874.</b>	<b>STREET NAME SIGN</b>	<b>EACH</b>
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### **DESCRIPTION**

Work under this item shall conform to the applicable requirements of Sections 828 and 840 of the Standard Specifications as well as the Manual on Uniform Traffic Control Devices (MUTCD). This item shall consist of removing and disposing or stacking existing signage and posts, furnishing materials and the installation of new signs and hardware.

### **MATERIALS**

Sign panels shall be made of Aluminum Type A. All hardware shall be Aluminum. Retro-Reflective sheeting shall be Type IV, or higher. The Contractor shall apply the legend using electrocure films, screen printing, or color printing in keeping with manufacturer's specifications in accordance with warranty information.

### **MEASUREMENT AND PAYMENT**

Payment under these items shall be made at the Contract Unit Price bid per Each, complete in place, which price shall include all labor, materials, equipment and incidental costs required to complete the work, including but not limited to removal and disposal or stacking of the existing signage and posts, coordination of proposed signage location, style, size with the Engineer, furnishing materials and the installation of new signs and hardware in accordance with these specifications.

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<b>ITEM 874.45</b>	<b>MISCELLANEOUS SIGNS REMOVED AND RESET</b>	<b>EACH</b>
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The work under this item shall conform to the relevant provision of Section 800 of the Standard Specifications and the following:

The work shall include removing and resetting existing informational, guide, and directional sign panels on ground-mounted supports at the current or new locations as indicated on the plans. The work shall include removal, resetting, and full restoration of flags or other decorative items attached to the existing signs. The work will also include the restoration to original condition, of any natural features disturbed in any way or manner by the operation.



## MATERIALS

Materials for signs removed and reset shall be the existing signs and supports. If in the opinion of the Engineer, the existing sign panel or sign support is unsuitable for reuse, a new sign panel or sign support of a size and composition equal to the existing sign panel shall be furnished, as directed by the Engineer. New supports shall be provided for all D6/D8 style guide signs and shall be paid for under Item 841.1.

The hardware used to attach the sign panel to the new or existing sign support shall be the existing bolts, brackets or clamps, or new and equal quality equipment furnished by the Contractor, as directed by the Engineer.

## CONSTRUCTION METHODS

Sign panels to be removed and reset shall be cleaned before being remounted on new or existing sign supports.

The Contractor shall replace all sign panels or sign supports that are damaged or lost as a result of the Contractor's operations. The cost of replacing the damaged signs and supports shall be paid by the Contractor.

Work shall also include the excavation (including Class "B" Rock) of any existing foundations, to be removed, to a depth of at least 6 inches below grade and the supplying and placing of compacted gravel.

## METHOD OF MEASUREMENT

Miscellaneous signs removed and reset will be measured for payment by the unit each, which will include dismantling, excavating and removing, loading, transporting, and resetting of the signs and their supports; gravel backfill; and concrete foundations where required.

## BASIS OF PAYMENT

Miscellaneous signs removed and reset will be paid for at the Contract unit price per each, which price shall include all labor, materials, equipment and incidental costs required to complete the work.

Replacement of sign panels and supports that have been determined to be unsuitable for reuse shall be paid for under the appropriate contract bid items. No payment shall be made for any sign panels or sign supports that have been damaged by the Contractor's operation.

## ITEM 874.51 MISCELLANEOUS SIGNS REMOVED AND DISCARDED LUMP SUM

Work under this item includes the dismantling, removal, transportation and discarding of the existing roadside signs shown on the plans and removal and disposal of the sign supports and their foundations.

The existing signs shall not be removed until the new signs and structures replacing them are ready for traffic or until the Engineer shall permit.

The work described above will constitute one lump sum unit.

## BASIS OF PAYMENT

Payment for work to be done under this item will be by the lump sum price, which price will be full compensation for dismantling, loading, transporting, and discarding of the signs as designated above, the excavating and disposal of the existing foundation and supports of the same, and the supplying and placing of compacted gravel backfill where foundations and posts are removed and restoration of surface.



**DESCRIPTION**

The intent of this section is not for work or materials typically incidental to other work items performed and/or rendered under this contract, or for work and/or materials which are otherwise called for under these specifications, and/or for work which is indicated on the plans, but for work and materials which are unique in nature and rendered as a direct request of the Engineer or other approved contingencies. This item may also be used for work completed by others on private utility castings. These items of work shall be completed only when and as directed by the Engineer. The Contractor may not proceed with any work under this section without the written notice of the Engineer to complete the work under the “Miscellaneous Work Allowance” item.

**MEASUREMENT AND PAYMENT**

All work under this item shall be paid for by one or more or a combination of the following methods at the City’s discretion:

1. Unit prices previously bid
2. An agreed lump sum
3. The actual cost of:
  - a. labor, including foreman;
  - b. materials entering permanently into the work;
  - c. the ownership or rental cost of construction plant and equipment during the time of use on the extra work;
  - d. power and consumable supplies for the operation of power equipment;
  - e. insurance;
  - f. social security and old age, and unemployment benefits.

To the cost for this item shall be added a fixed fee to be agreed upon, but **not to exceed fifteen per cent (15%) of the actual cost of the work.** The fee shall be compensation to cover the cost of supervision, overhead, bond, profit and any other general expense.

The City shall retain a cash credit in full or in part, in the event that the final cost of materials and/or equipment is lower than the original cash allowance provided.

To the estimated cost or actual cost for work performed by subcontractors, there shall be added a fixed fee of ten per cent (10%) as compensation to cover the subcontractor’s cost of supervision, overhead, profit and any other subcontract general expense, plus ten per cent (10%) as compensation to cover the General Contractor’s cost of supervision, overhead, profit, bond, and any other general expenses.

Payment for work completed under this item shall be as specified above, in full or in part, as pre-approved by the Engineer.

**DESCRIPTION**

The Contractor shall include in his bid an allowance for payment of Police traffic officers as approved by the Engineer. This allowance will be used as a basis for comparison of bids only.

Under this item the Contractor shall be responsible for ordering, and for canceling details on a day-to-day basis. In the event the Contractor has ordered police details, and does not give the police department ample advance notice that work

has been cancelled for that day due to inclement weather or for any other reason, then the Contractor shall bear the expense of that billed detail.

The Contractor shall completely familiarize himself with the current policies regarding and/or regulating police details. In the event police detail requests cannot be completely filled to cover the Contractor's scheduled work for any particular day then the Contractor shall adjust his work schedule accordingly and shall not hold the City responsible for any loss of time, or for any other financial loss. The City of Newton will however grant an extension of time to the original contract term for each day lost due to insufficient police staffing.

Uniformed Traffic Officers will be required during the construction period and shall be paid for directly by the City. It shall be the responsibility of the Contractor to arrange for the necessary police details when approved by the City for each police detail required. This request and approval may be verbal or in writing at the discretion of the City. **Forty-Eight (48) hour notice to the Police Department is required.**

The City will pay the exact charges for police details ordered, with the approval of the Engineer, by the Contractor for this project. There will be no administration fee, mark-ups, or any other additional costs paid to the Contractor.

If the Contractor fails to cancel any police detail not needed, by the required deadline, as set forth by the Newton Police Department, the cost for such detail as invoiced to the City shall be deducted from the total reimbursement to the Contractor, unless otherwise waived by the City. There will be no separate payment for the Contractor's coordination with the Police Department or City to obtain police details."

#### **MEASUREMENT AND PAYMENT**

Under Item 999.02 the Contractor shall submit paid invoices to the Engineer. The Contractor shall then be reimbursed the full invoice amount for City of Newton Police Department charges and/or, when applicable, for Massachusetts State Police charges, as full reimbursement under the allowance for payment of Police officers.

The original invoice issued by the billing authority must be submitted to the Engineer for payment under this item.

**APPENDIX A**  
**Pavement Core and**  
**Soil Sieve Analyses Data**

**END OF SECTION**

**Bidders are responsible for downloading the specifications  
from the City's web site [www.newtonma.gov/bids](http://www.newtonma.gov/bids) .**



December 13, 2019

Mr. Christopher Roy, P.E.  
 Beta Group, Inc.  
 89 Shrewsbury Street, Suite 300  
 Worcester, MA 01604

**RE: Pavement Coring Summary  
 Puritan Rd/Beethoven Ave and Allen Ave  
 Newton, Massachusetts**

**Project # 19098B**

Dear Mr. Roy:

The purpose of this letter as agreed is to present the data and observations from a limited pavement coring investigation, completed at the above project on Wednesday, December 11, 2019. The intent of this coring program was to measure the in-place bituminous asphalt thickness(es) and provide visual observation.

As agreed, this program consisted of a series of eight (8) pavement cores (C-1/C-2 were on Allen Ave near Plainfield St, C-3/C-4 were on Allen Ave near Pine Ridge Rd, and C-5 to C-8 were on the corner of Puritan Rd and Beethoven Ave) at the locations marked by your representatives and shown on the attached supplied location maps.

The core/pavement thickness measurements and field condition observations are summarized on the following Table:

CORE ID#	General Core Location	Binder (inch)	Top Mix (inch)	Overlay (inch)	Visual Core Conditions
C-1	Allen Ave – Southbound near Plainfield St	2.5	1.4	0.6	No bonding between each layer. “Honeycombed” type deteriorated binder layer
C-2	Allen Ave – Northbound near Plainfield St	3.0	2.0	0.5	Nothing of note
C-3	Allen Ave – Southbound near Pine Ridge Rd	1.5	2.1	0.5	No bonding between binder and top layers
C-4	Allen Ave – Northbound near Pine Ridge Rd	1.1	2.4	0.5	Binder layer likely has very little liquid asphalt, mostly just loose aggregate.
C-5	Beethoven Ave/Puritan Rd Intersection – South side	1.1	2.5	0.5	No bonding between binder and top layers
C-6	Beethoven Ave/Puritan Rd Intersection – West side	1.0/1.1	0.9	0.5	No bonding between binder and top layers. Also, appears 2 different binders layers with one layer mostly just loose aggregate
C-7	Beethoven Ave/Puritan Rd Intersection – North side	1.3/1.5	1.3	0.5	No bonding between binder and top layers. Also, appears 2 different binders layers with one layer mostly just loose aggregate
C-8	Beethoven Ave/Puritan Rd Intersection – East side	1.3	1.5	0.5	Nothing of note

As can be seen above, the Allen Avenue cores (C-1 to C-4) indicated binder thicknesses ranging from 1.1" to 2.3" with top mix thicknesses ranging from 1.4" to 2.4". The four cores taken at the intersection of Puritan and Beethoven (C-5 to C-8) ranged in binder thicknesses from 1.1" to 2.8", while the top mix thicknesses ranged from 0.9" to 2.5". All eight of the cores showed a ½" of overlay.

The subsurface soils were not cored/augered due to the time of year (frost). Also, it should be noted the surrounding surfaces were covered in snow during coring operations.

We believe that you will find the aforementioned information to be clear and concise. However, should you have any questions, or require additional testing assistance, please do not hesitate to contact me at our Worcester office.

Sincerely,

A handwritten signature in blue ink, appearing to read 'S. Mensen', with a stylized flourish at the end.

Scott M. Mensen, P.E., P.G.  
Director of Testing Services



Google Maps



2 cores - one on each side of the road

C-3 C-4

2 cores - one on each side of the road

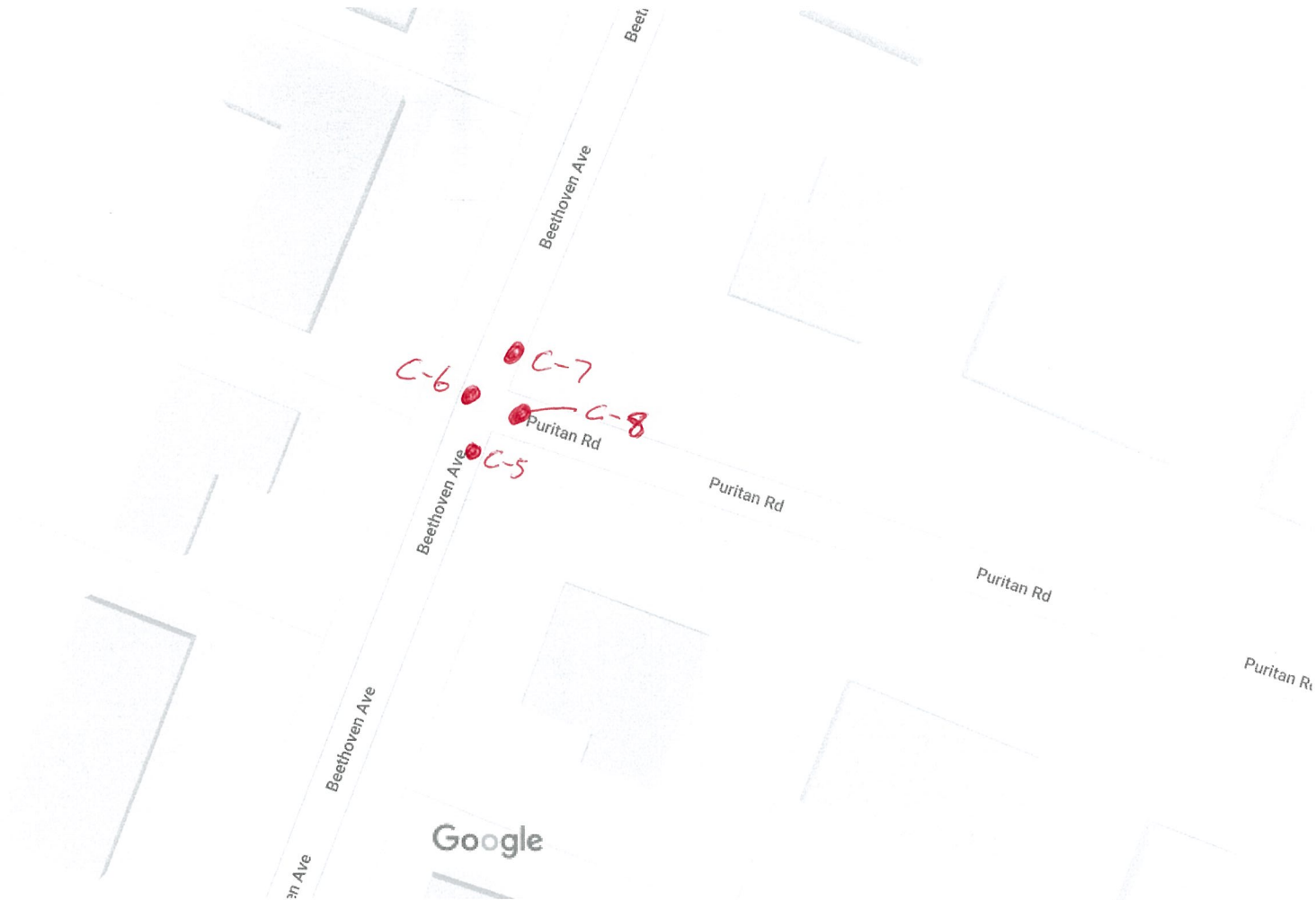
C-1 C-2

Richardson Field

Google

Map data ©2019 50 ft







May 4, 2020

Mr. Christopher Roy, P.E.  
 Beta Group, Inc.  
 315 Norwood Park South  
 Norwood, MA 02062

**RE: Pavement Coring Summary  
 Plainfield St./Allen Ave/Beethoven Ave/Puritan Rd.  
 Newton, Massachusetts**

**Project # 19098B**

Dear Mr. Roy:

The purpose of this letter as agreed is to present the data and observations from a limited pavement coring investigation, completed at the above project on Friday, April 24, 2020. The intent of this coring program was to measure the in-place bituminous asphalt thickness(es), sample subgrade soils, and provide visual observation.

As agreed, this program consisted of a series of nine (9) pavement cores (C-9 and C-10 were on Plainfield Street, C-11 to C-13 were on Pine Ridge Rd, C-14 to C-15 were on Beethoven Ave, and C-16 to C-17 were on Puritan Rd) at the locations marked by your representatives and shown on the attached supplied location maps.

The core/pavement thickness measurements and field condition observations are summarized on the following Table:

CORE ID#	General Core Location	Asphalt (inch)	Core Depth (inch)	Visual Soil Conditions
C-9	Plainfield Street	4¼"	16¼"	12" Brown, bank run gravel, silty sand
C-10	Plainfield Street	1¾"	15¼"	3" Brown, reclaimed, gravel, silty sand 1½" Lt. brown sand, some gravel 9" Dk. brown, sand/gravel
C-11	Pine Ridge Rd	3¾"	20¾"	2" Dk. brown, crushed gravel, silty sand 11" Brown, bank run, gravel/sand 4" Lt. brown, sand, some gravel
C-12	Pine Ridge Rd	2½"	26¾"	2" Dk. brown, crushed gravel, silty sand 19¼" Brown, bank run, gravel/sand 3" Lt. brown, sand, some gravel
C-13	Pine Ridge Rd	2½"	20"	2" Dk. brown, crushed, gravel/sand 12½" Brown, bank run, gravel/sand 3" Lt. brown, sand, some gravel
C-14	Beethoven Ave	5"	15"	10" Brown, sand/gravel
C-15	Beethoven Ave	4½"	16"	11½" Brown, sand, some gravel
C-16	Puritan Road	2"	13"	11" Gray, sand, crushed gravel
C-17	Puritan Road	2"	14"	12" Gray, sand, crushed gravel

As can be seen above, the cores (C-9 to C-17) indicated asphalt thicknesses ranging from 1¾” to 5”.

The subsurface soils were cored/augured and the underlying soil sampled, attached are the sieve analysis results.

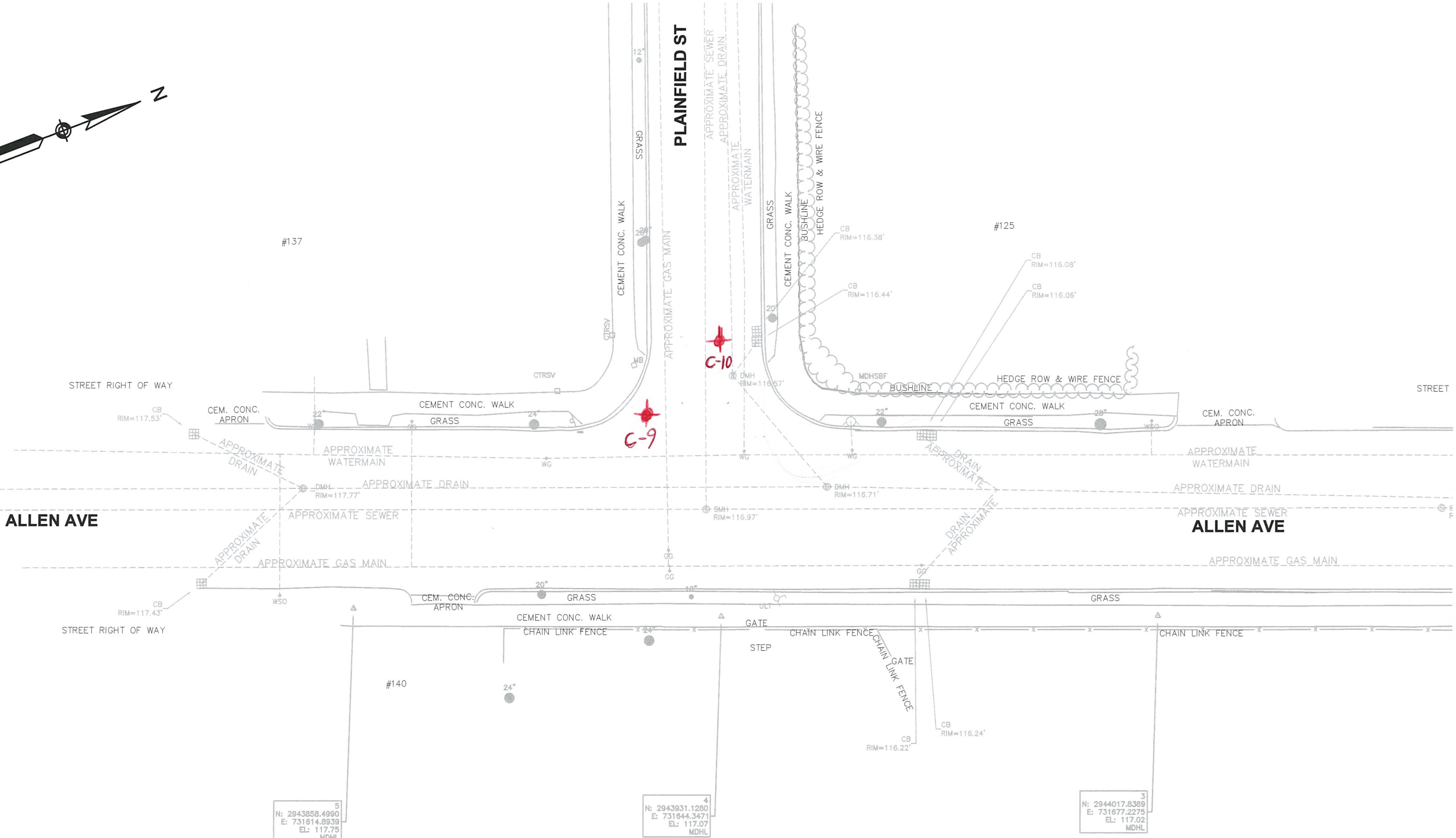
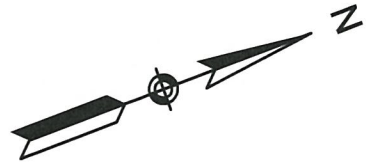
We believe that you will find the aforementioned information to be clear and concise. However, should you have any questions, or require additional testing assistance, please do not hesitate to contact me at our Worcester office.

Sincerely,



Scott M. Mensen, P.E., P.G.  
Director of Testing Services





7/10/2020 10:31 AM C:\540005\472 - NEWTON ON-CALL\TASK 11 - 5 PROJECT BID PACKAGE\DRAWING FILES\PLANS\CONSTR.DWG (MADOT-D.STB)

NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS

DRAWN BY:  
DESIGNED BY:  
CHECKED BY:

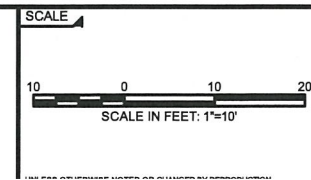
REGISTERED PROFESSIONAL PREPARED BY

**For Review Only**



www.BETA-Inc.com

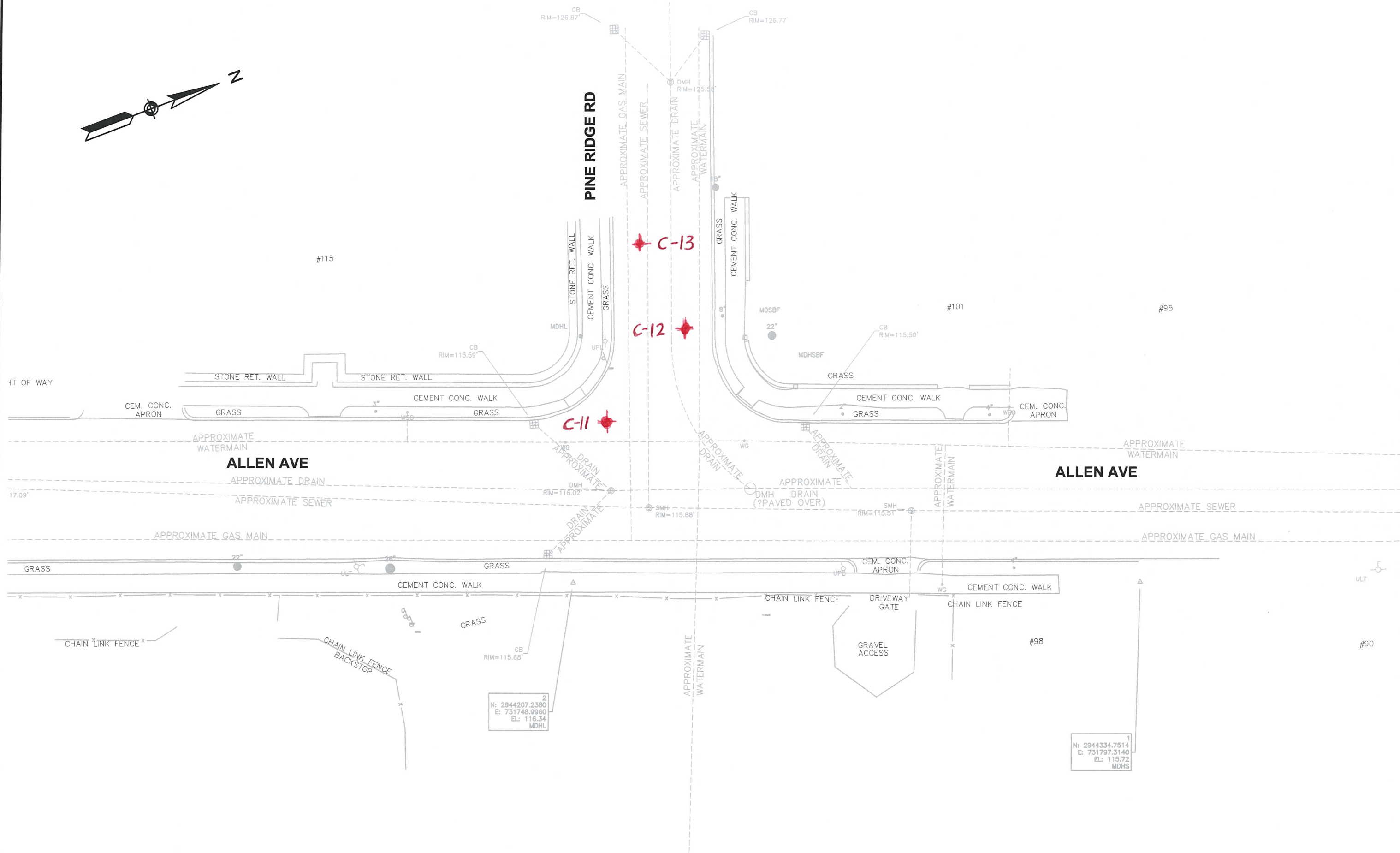
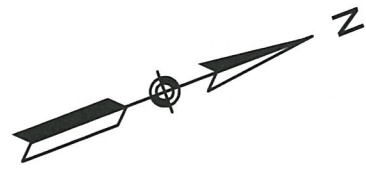
SUBCONSULTANT



TITLE

**Traffic Calming  
at Allen Ave at Plainfield St  
CONSTRUCTION PLAN  
Newton, MA**

BETA JOB NO. 5472\_11  
ISSUE DATE 03/13/2020  
SHEET NO. **6 of 16**



1/10/2020 10:36 AM C:\54000\5472 - NEWTON ON-CALL\TASK 11 - 5 PROJECT BID PACKAGE\DRAWING FILES\PLANSET\CONSTR.DWG (MADOT-D.STB)

NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS

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DESIGNED BY:  
CHECKED BY:

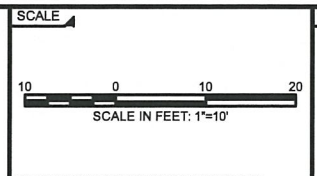
REGISTERED PROFESSIONAL PREPARED BY

**For Review Only**



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SUBCONSULTANT



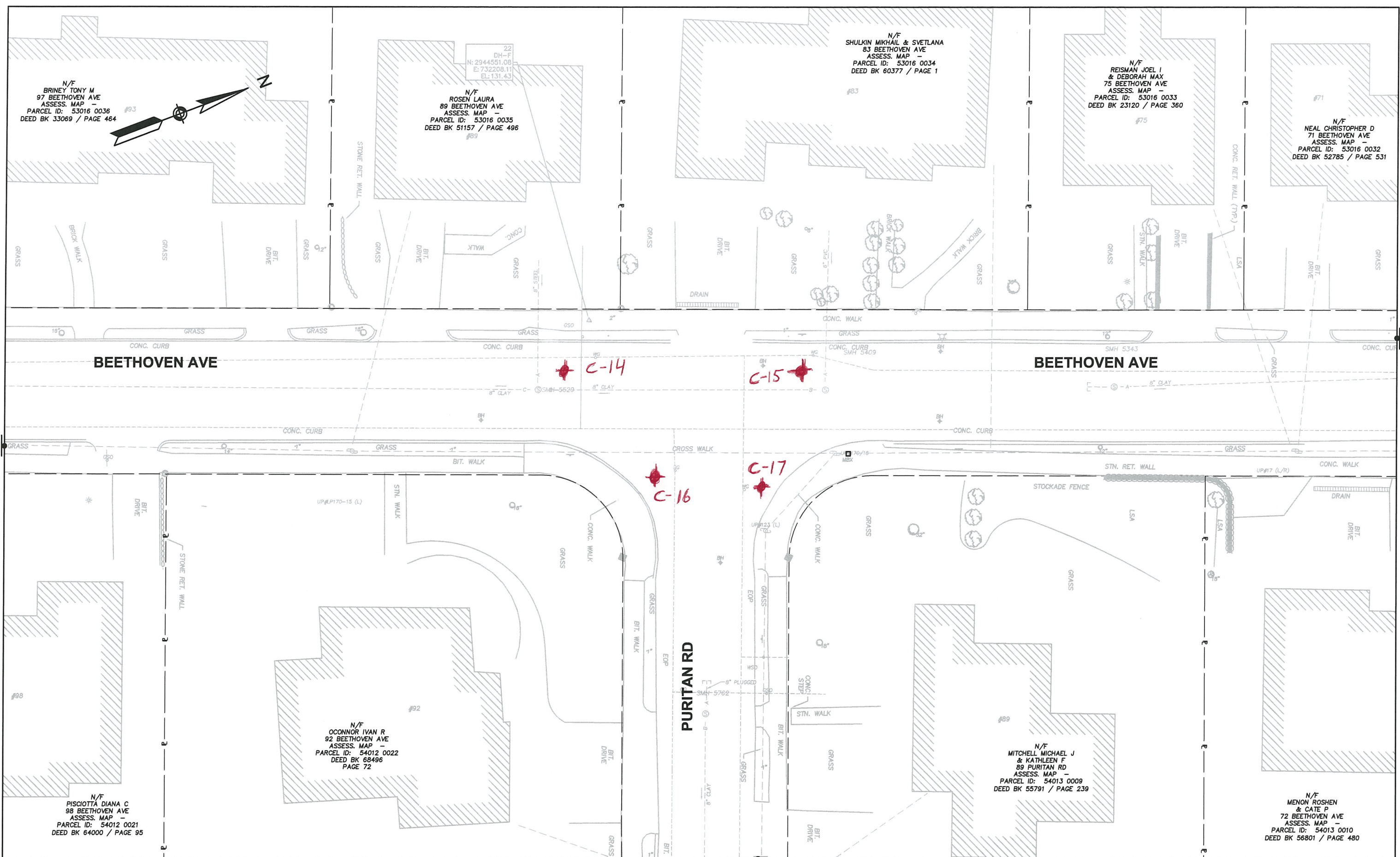
TITLE

**Traffic Calming  
at Allen Ave at Pine Ridge Rd  
CONSTRUCTION PLAN  
Newton, MA**

BETA JOB NO. 5472\_11  
ISSUE DATE 03/13/2020  
SHEET NO. **7 of 16**



1/10/2020 10:05 AM C:\15400051472 - NEWTON ON-CALL\TASK 11 - 5 PROJECT BID PACKAGE\DRAWING FILES\PLANSET\CONSTR - BEETHOVEN AT PURITAN.DWG (MADOT-D.STB)



NUMBER	DATE	MADE BY	CHECKED BY	REVISIONS

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DESIGNED BY:  
CHECKED BY:

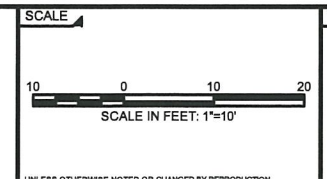
REGISTERED PROFESSIONAL PREPARED BY

For Review Only



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SUBCONSULTANT

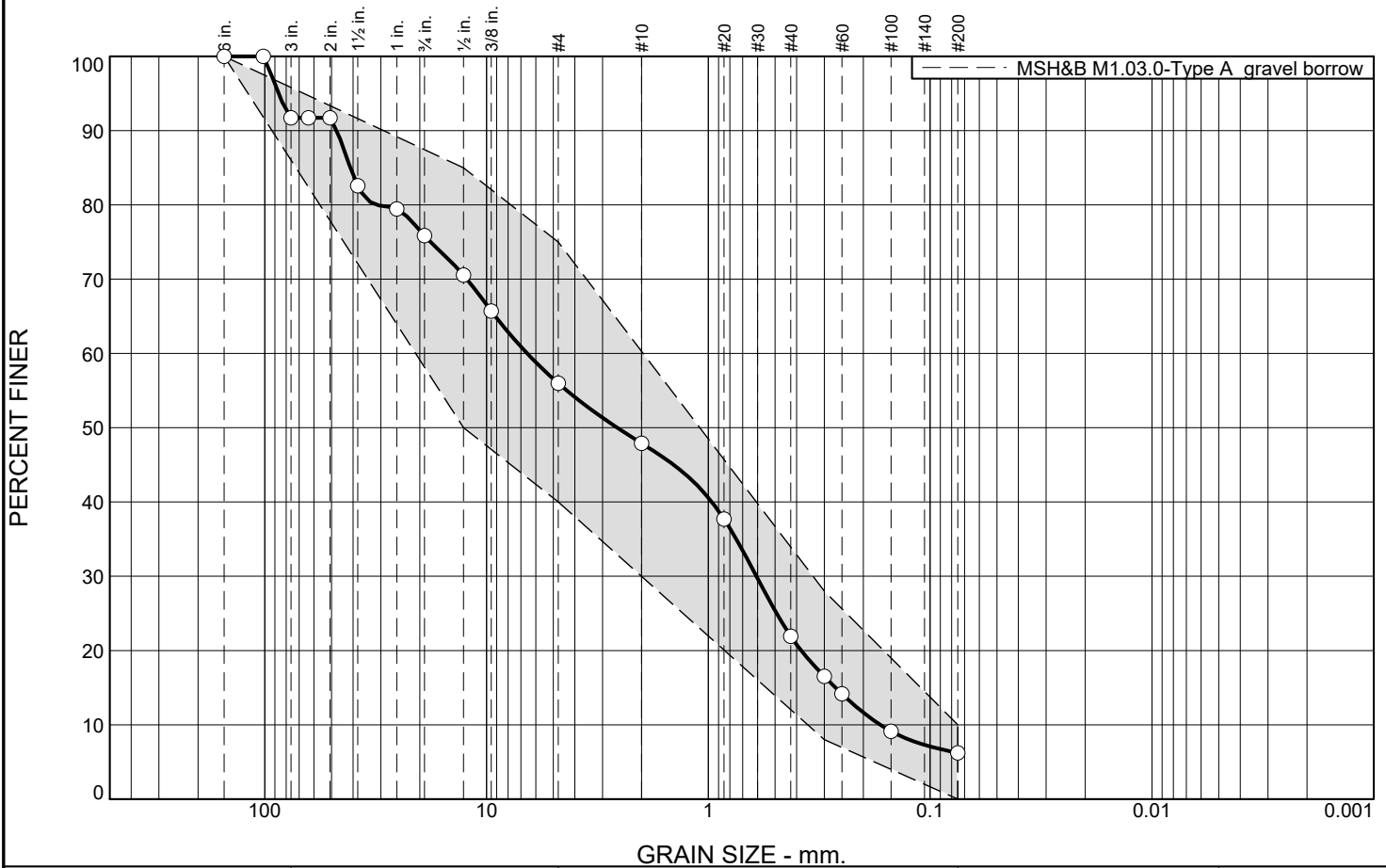


TITLE

Traffic Calming  
at BEETHOVEN AVE AT PURITAN RD  
CONSTRUCTION PLAN  
Newton, MA

BETA JOB NO. 5472\_11  
ISSUE DATE 03/13/2020  
SHEET NO. 8 of 16

# Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
8.3	35.7	49.8	6.2	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
6"	100.0	100.0	
4"	100.0		
3"	91.7		
2-1/2"	91.7		
2"	91.7		
1-1/2"	82.6		
1"	79.4		
3/4"	75.9		
1/2"	70.6	50.0 - 85.0	
3/8"	65.7		
#4	56.0	40.0 - 75.0	
#10	47.9		
#20	37.7		
#40	21.9		
#50	16.5	8.0 - 28.0	
#60	14.2		
#100	9.1		
#200	6.2	0.0 - 10.0	

**Material Description**

Brown 4" max m/f SAND and gravel trace silt  
Lab proctor test not requested

**Atterberg Limits**

PL= NP      LL= NV      PI= NP

**Coefficients**

D<sub>85</sub>= 41.1319      D<sub>60</sub>= 6.5561      D<sub>50</sub>= 2.5738  
D<sub>30</sub>= 0.6070      D<sub>15</sub>= 0.2672      D<sub>10</sub>= 0.1679  
C<sub>u</sub>= 39.04      C<sub>c</sub>= 0.33

**Classification**

USCS= SP-SM      AASHTO= A-1-b

**Remarks**

Sampled by Joel Morin (Yankee) on 04/24/20  
Sample met M1.03.0 "Gravel Borrow" gradation limits

\* MSH&B M1.03.0-Type A gravel borrow

**Sample No.:** 28403  
**Location:** Core 9

**Source of Sample:** Newton Coring

**Date:** 04/27/20  
**Elev./Depth:**

YANKEE ENGINEERING  
& TESTING, INC.

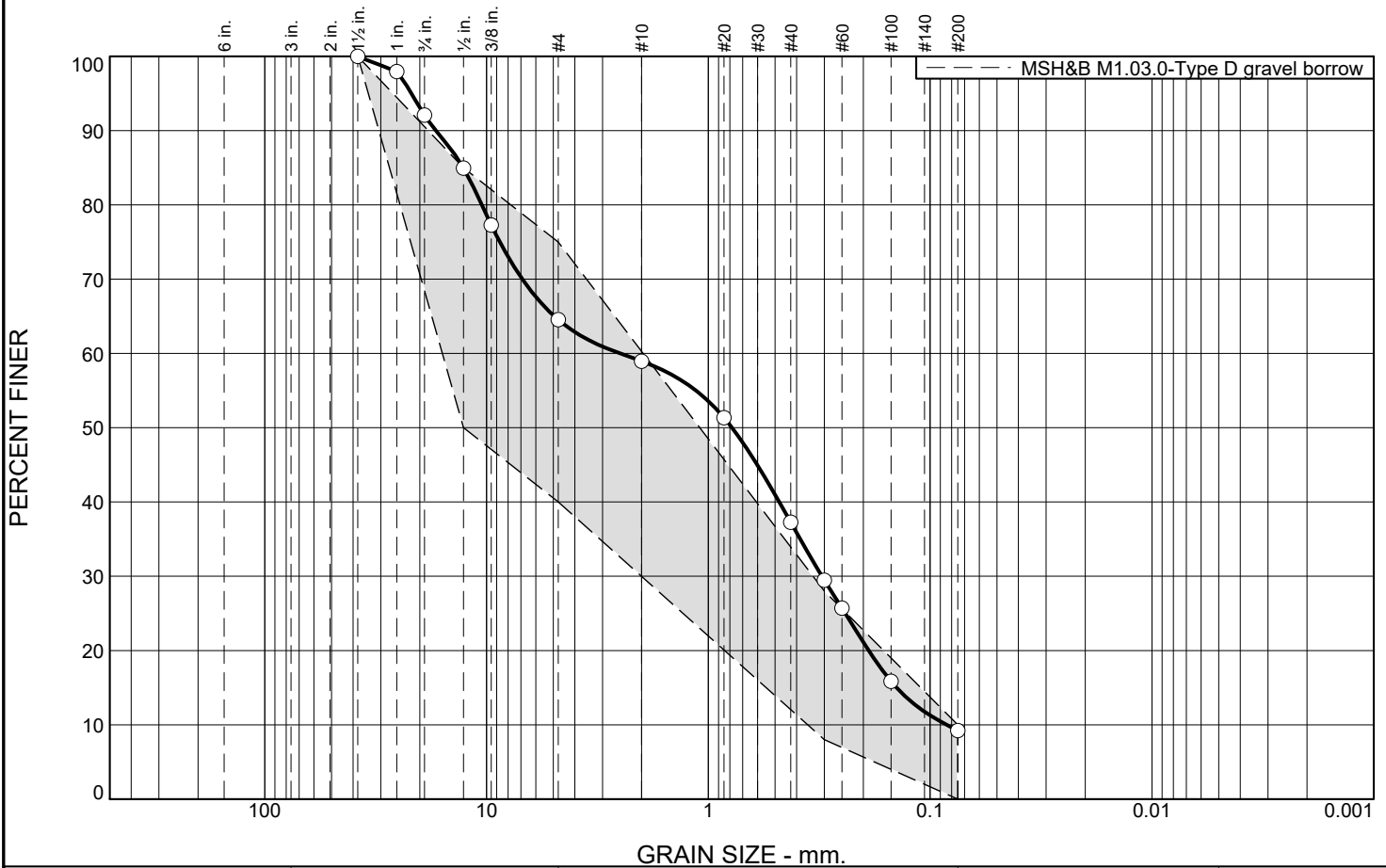
**Client:** BETA Group, Inc.  
**Project:** BETA Group, Inc.  
Various Projects/Sites  
**Project No.:** 19098

Tested By: JO

Checked By: SMM



# Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0.0	35.5	55.3	9.2	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1-1/2"	100.0	100.0	
1"	98.0		
3/4"	92.1		
1/2"	84.9	50.0 - 85.0	
3/8"	77.3		
#4	64.5	40.0 - 75.0	
#10	59.0		
#20	51.3		
#40	37.3		
#50	29.5	8.0 - 28.0	X
#60	25.7		
#100	15.8		
#200	9.2	0.0 - 10.0	

**Material Description**

Brown 1.5" max f/m SAND and gravel trace silt  
Lab proctor test not requested

**Atterberg Limits**

PL= NP      LL= NV      PI= NP

**Coefficients**

D<sub>85</sub>= 12.7291      D<sub>60</sub>= 2.4928      D<sub>50</sub>= 0.7823  
D<sub>30</sub>= 0.3077      D<sub>15</sub>= 0.1417      D<sub>10</sub>= 0.0842  
C<sub>u</sub>= 29.61      C<sub>c</sub>= 0.45

**Classification**

USCS= SP-SM      AASHTO= A-1-b

**Remarks**

Sampled by Joel Morin (Yankee) on 04/24/20  
Close to M1.03.0 "Gravel Borrow" gradation limits

\* MSH&B M1.03.0-Type D gravel borrow

**Sample No.:** 28404  
**Location:** Core 10

**Source of Sample:** Newton Coring

**Date:** 04/27/20  
**Elev./Depth:**

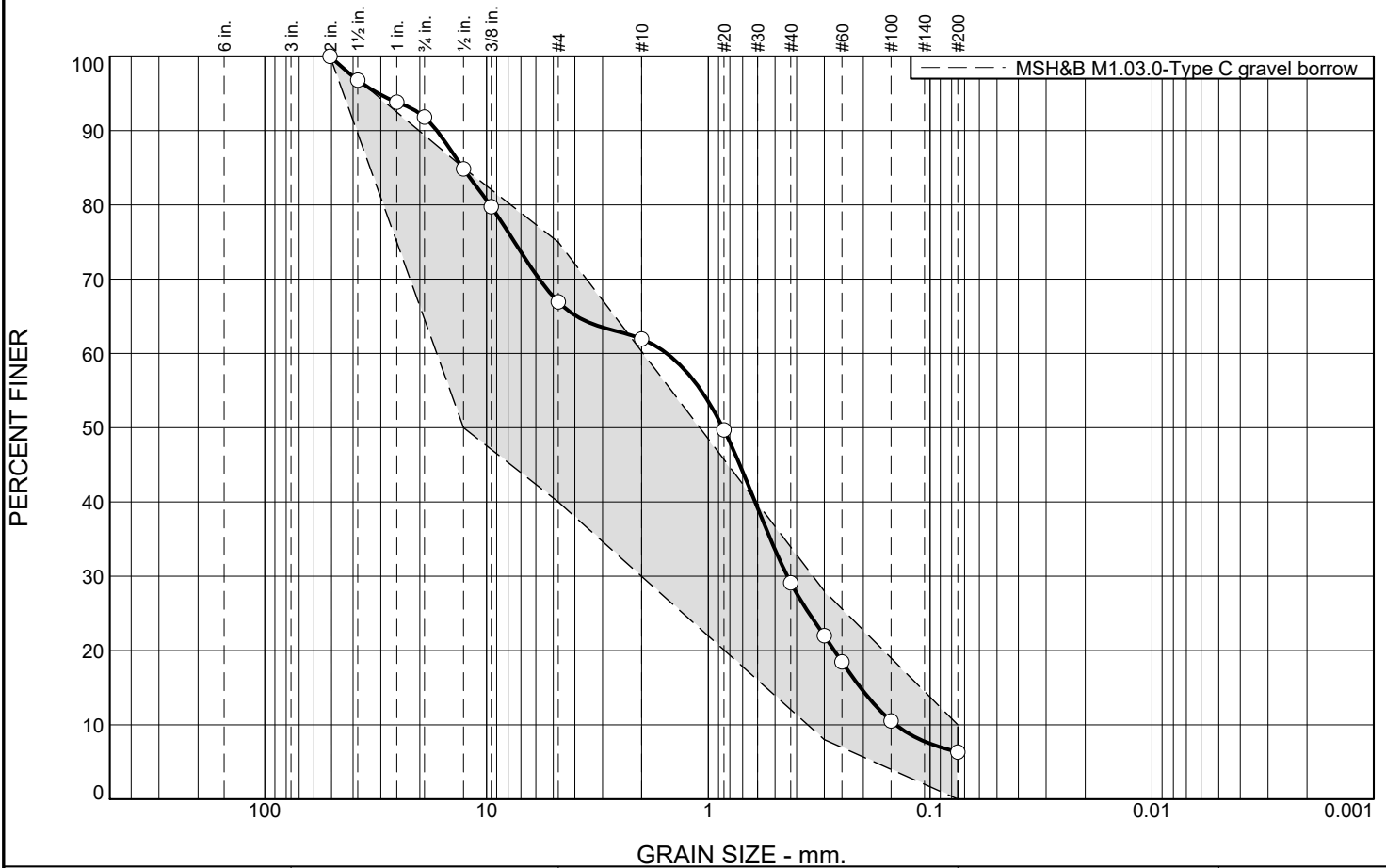
YANKEE ENGINEERING  
& TESTING, INC.

**Client:** BETA Group, Inc.  
**Project:** BETA Group, Inc.  
Various Projects/Sites  
**Project No.:** 19098

Tested By: JO

Checked By: SMM

# Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0.0	33.1	60.6	6.3	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2"	100.0	100.0	
1-1/2"	96.8		
1"	93.8		
3/4"	91.8		
1/2"	84.8	50.0 - 85.0	
3/8"	79.8		
#4	66.9	40.0 - 75.0	
#10	62.0		
#20	49.7		
#40	29.1		
#50	22.0	8.0 - 28.0	
#60	18.5		
#100	10.5		
#200	6.3	0.0 - 10.0	

**Material Description**

Brown 2" max m/f SAND some gravel trace silt  
Lab proctor test not requested

**Atterberg Limits**

PL= NP      LL= NV      PI= NP

**Coefficients**

D<sub>85</sub>= 12.8043      D<sub>60</sub>= 1.5389      D<sub>50</sub>= 0.8598  
D<sub>30</sub>= 0.4401      D<sub>15</sub>= 0.2060      D<sub>10</sub>= 0.1430  
C<sub>u</sub>= 10.76      C<sub>c</sub>= 0.88

**Classification**

USCS= SP-SM      AASHTO= A-1-b

**Remarks**

Sampled by Joel Morin (Yankee) on 04/24/20  
Sample met M1.03.0 "Gravel Borrow" gradation limits

\* MSH&B M1.03.0-Type C gravel borrow

**Sample No.:** 28405  
**Location:** Core 11

**Source of Sample:** Newton Coring

**Date:** 04/27/20  
**Elev./Depth:**

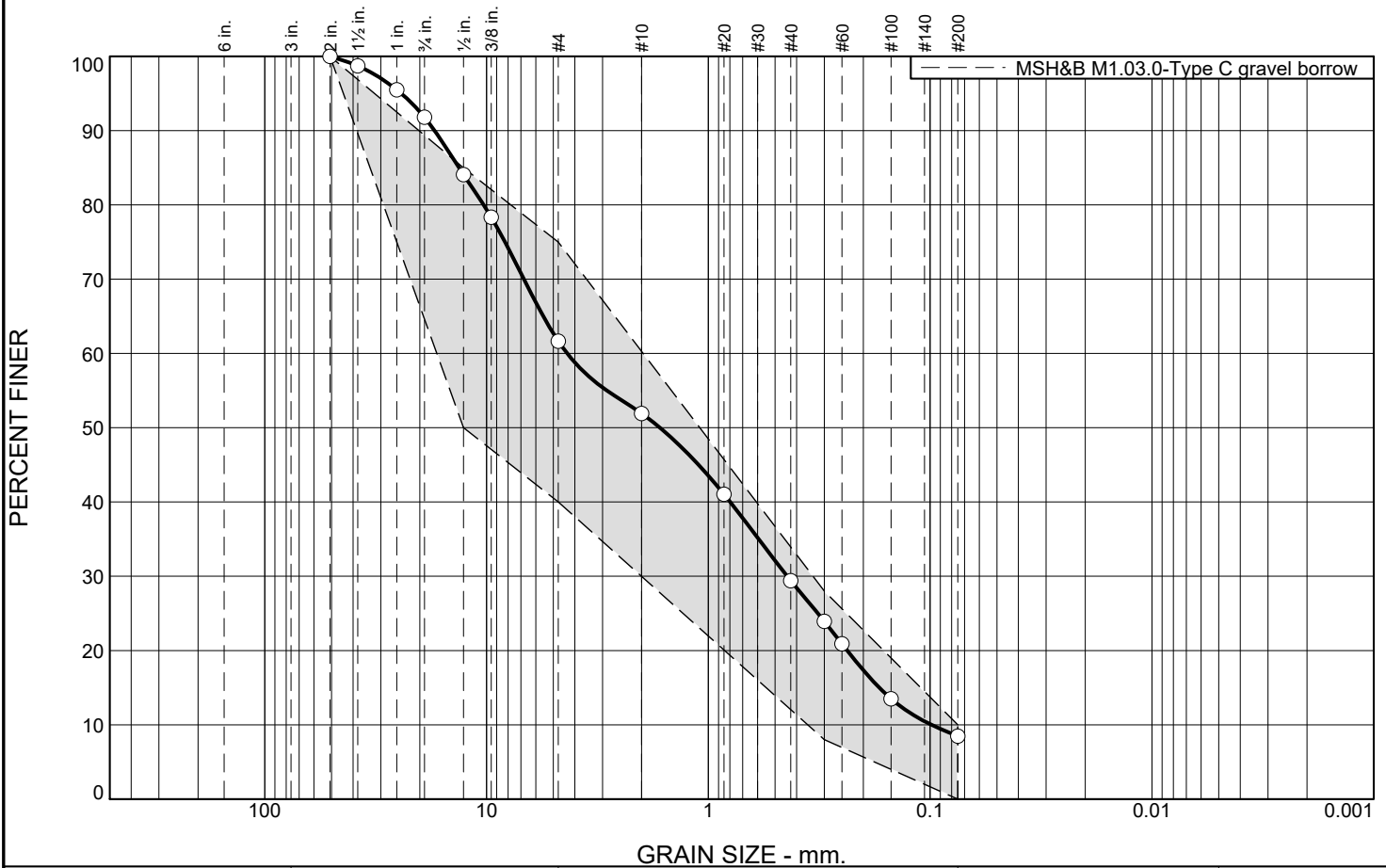
YANKEE ENGINEERING  
& TESTING, INC.

**Client:** BETA Group, Inc.  
**Project:** BETA Group, Inc.  
Various Projects/Sites  
**Project No.:** 19098

Tested By: JO

Checked By: SMM

# Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0.0	38.3	53.2	8.5	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2"	100.0	100.0	
1-1/2"	98.7		
1"	95.5		
3/4"	91.8		
1/2"	84.1	50.0 - 85.0	
3/8"	78.3		
#4	61.7	40.0 - 75.0	
#10	51.9		
#20	41.0		
#40	29.4		
#50	23.9	8.0 - 28.0	
#60	20.9		
#100	13.5		
#200	8.5	0.0 - 10.0	

**Material Description**

Brown 2" max f/m sand and gravel trace silt  
Lab proctor test not requested

**Atterberg Limits**

PL= NP      LL= NV      PI= NP

**Coefficients**

D<sub>85</sub>= 13.3067      D<sub>60</sub>= 4.3298      D<sub>50</sub>= 1.6519  
D<sub>30</sub>= 0.4407      D<sub>15</sub>= 0.1695      D<sub>10</sub>= 0.0986  
C<sub>u</sub>= 43.92      C<sub>c</sub>= 0.46

**Classification**

USCS= SP-SM      AASHTO= A-1-b

**Remarks**

Sampled by Joel Morin (Yankee) on 04/24/20  
Sample met M1.03.0 "Gravel Borrow" gradation limits

\* MSH&B M1.03.0-Type C gravel borrow

**Sample No.:** 28406  
**Location:** Core 12

**Source of Sample:** Newton Coring

**Date:** 04/27/20  
**Elev./Depth:**

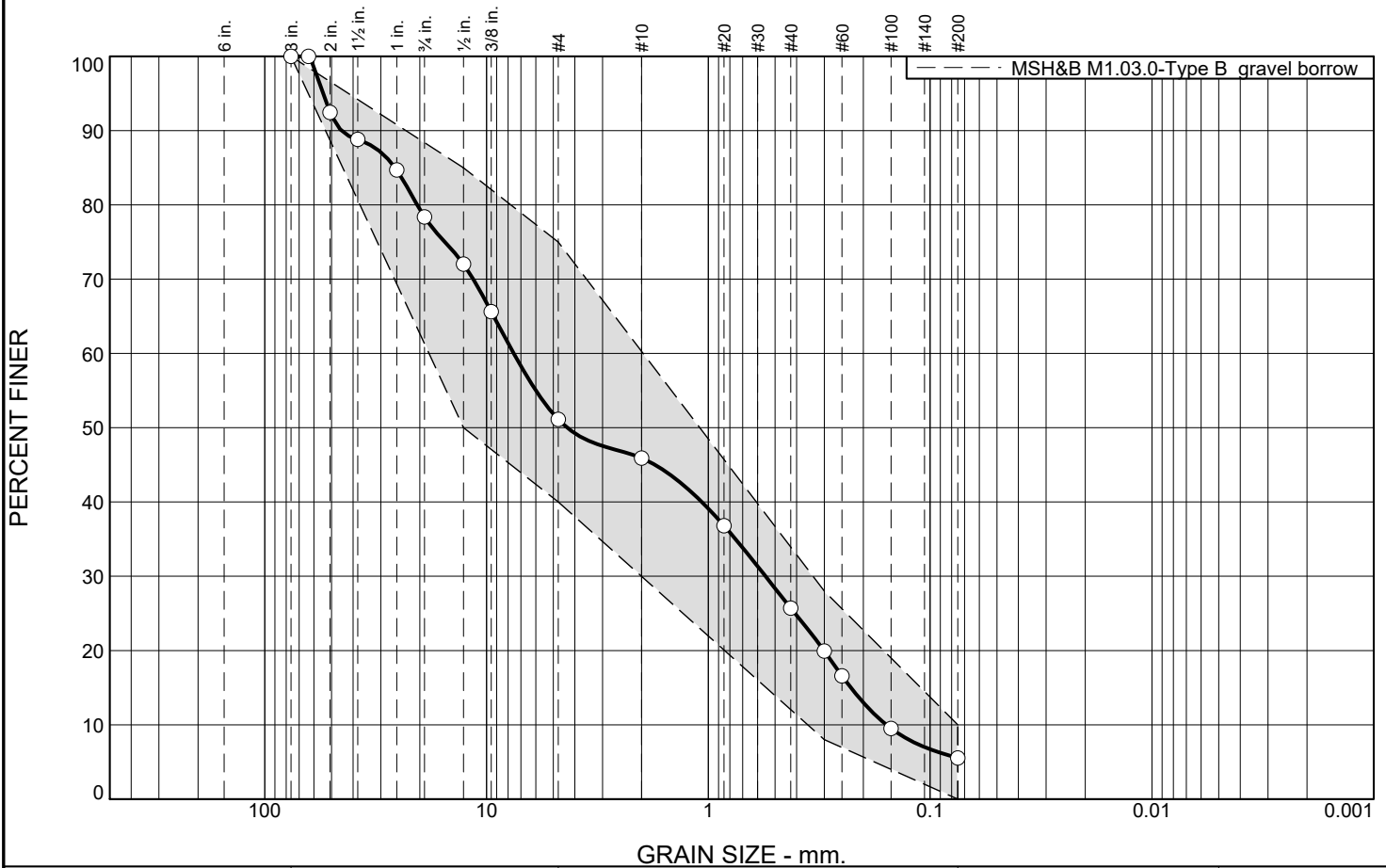
YANKEE ENGINEERING  
& TESTING, INC.

**Client:** BETA Group, Inc.  
**Project:** BETA Group, Inc.  
Various Projects/Sites  
**Project No.:** 19098

Tested By: JO

Checked By: SMM

# Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0.0	48.9	45.6	5.5	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3"	100.0	100.0	
2-1/2"	100.0		
2"	92.5		
1-1/2"	88.8		
1"	84.7		
3/4"	78.4		
1/2"	72.0	50.0 - 85.0	
3/8"	65.6		
#4	51.1	40.0 - 75.0	
#10	45.9		
#20	36.8		
#40	25.7		
#50	19.9	8.0 - 28.0	
#60	16.6		
#100	9.5		
#200	5.5	0.0 - 10.0	

**Material Description**

Brown 2.5" max GRAVEL and m/f sand trace silt  
Lab proctor test not requested

**Atterberg Limits**

PL= NP      LL= NV      PI= NP

**Coefficients**

D<sub>85</sub>= 25.8182      D<sub>60</sub>= 7.5409      D<sub>50</sub>= 4.3248  
D<sub>30</sub>= 0.5524      D<sub>15</sub>= 0.2279      D<sub>10</sub>= 0.1575  
C<sub>u</sub>= 47.88      C<sub>c</sub>= 0.26

**Classification**

USCS= GP-GM      AASHTO= A-1-a

**Remarks**

Sampled by Joel Morin (Yankee) on 04/24/20  
Sample met M1.03.0 "Gravel Borrow" gradation limits

\* MSH&B M1.03.0-Type B gravel borrow

**Sample No.:** 28407  
**Location:** Core 13

**Source of Sample:** Newton Coring

**Date:** 04/27/20  
**Elev./Depth:**

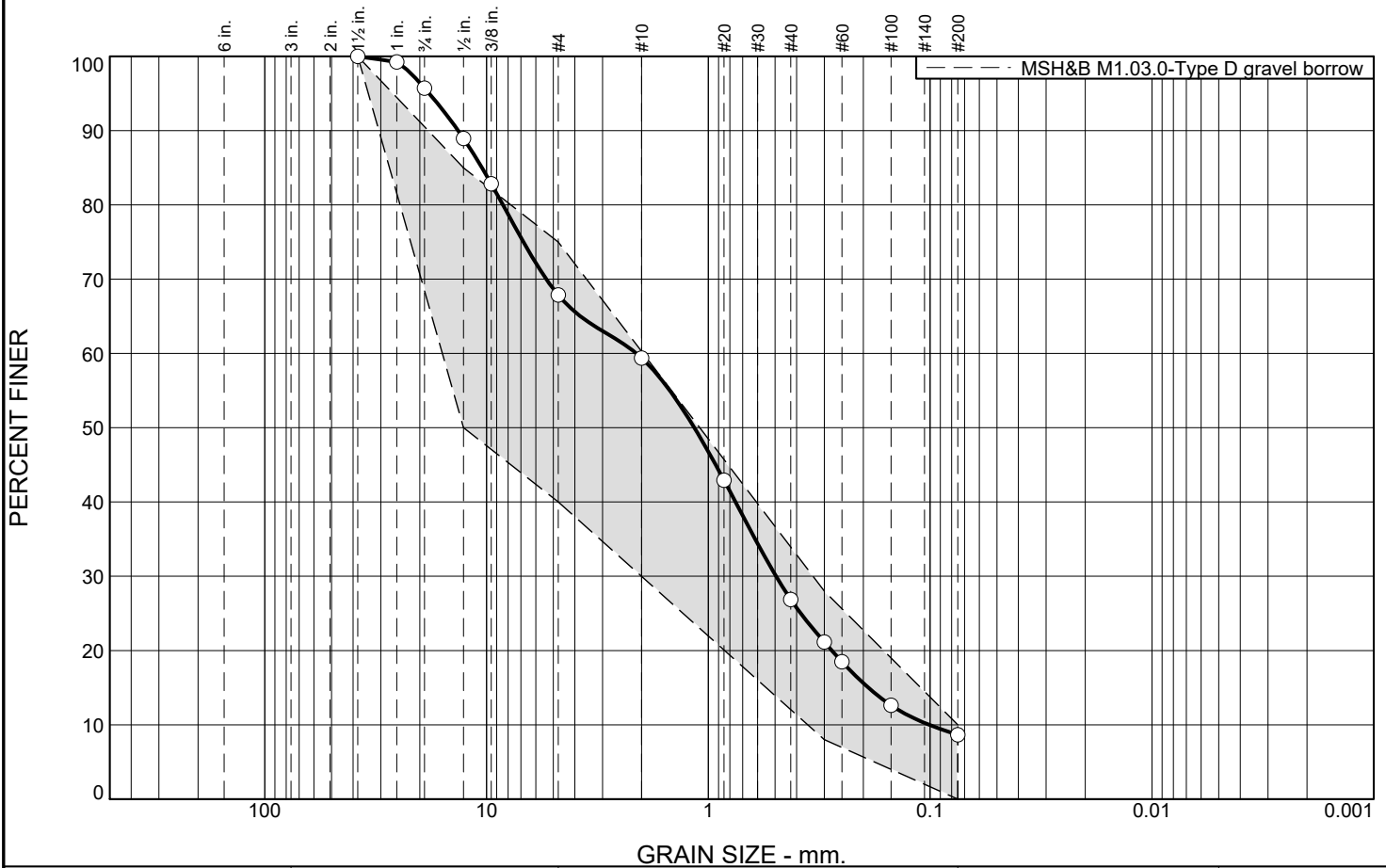
YANKEE ENGINEERING  
& TESTING, INC.

**Client:** BETA Group, Inc.  
**Project:** BETA Group, Inc.  
Various Projects/Sites  
**Project No.:** 19098

Tested By: JO

Checked By: SMM

# Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0.0	32.1	59.2	8.7	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1-1/2"	100.0	100.0	
1"	99.2		
3/4"	95.7		
1/2"	89.0	50.0 - 85.0	X
3/8"	82.8		
#4	67.9	40.0 - 75.0	
#10	59.4		
#20	42.9		
#40	26.9		
#50	21.1	8.0 - 28.0	
#60	18.5		
#100	12.6		
#200	8.7	0.0 - 10.0	

**Material Description**

Brown 1.5" max m/f SAND some gravel trace silt  
Lab proctor test not requested

**Atterberg Limits**

PL= NP      LL= NV      PI= NP

**Coefficients**

D<sub>85</sub>= 10.4860      D<sub>60</sub>= 2.1122      D<sub>50</sub>= 1.1569  
D<sub>30</sub>= 0.4951      D<sub>15</sub>= 0.1900      D<sub>10</sub>= 0.1009  
C<sub>u</sub>= 20.92      C<sub>c</sub>= 1.15

**Classification**

USCS= SW-SM      AASHTO= A-1-b

**Remarks**

Sampled by Joel Morin (Yankee) on 04/24/20  
Close to M1.03.0 "Gravel Borrow" gradation limits

\* MSH&B M1.03.0-Type D gravel borrow

**Sample No.:** 28408  
**Location:** Core 14

**Source of Sample:** Newton Coring

**Date:** 04/27/20  
**Elev./Depth:**

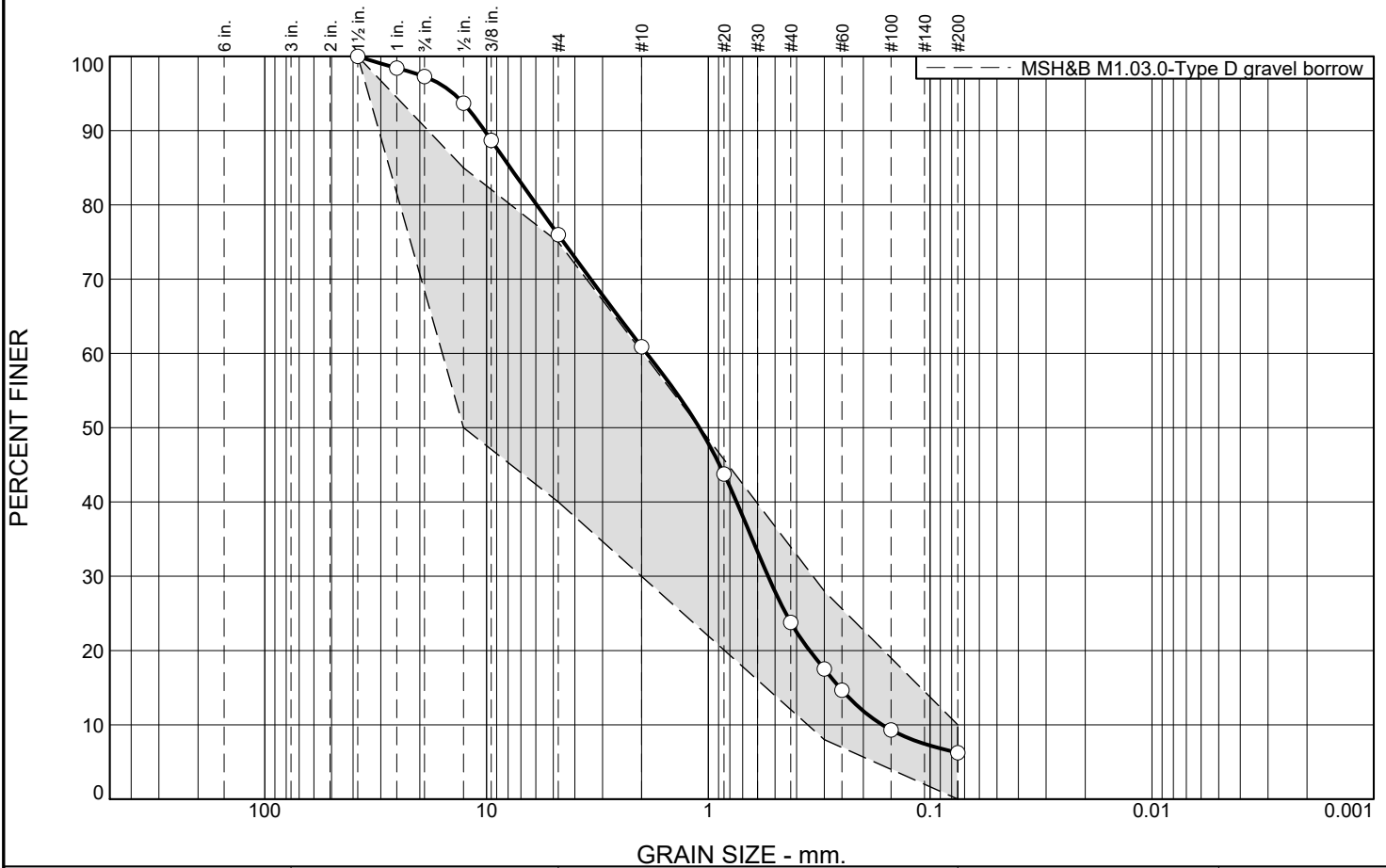
YANKEE ENGINEERING  
& TESTING, INC.

**Client:** BETA Group, Inc.  
**Project:** BETA Group, Inc.  
Various Projects/Sites  
**Project No.:** 19098

Tested By: JO

Checked By: SMM

# Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0.0	24.0	69.8	6.2	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1-1/2"	100.0	100.0	
1"	98.4		
3/4"	97.3		
1/2"	93.7	50.0 - 85.0	X
3/8"	88.7		
#4	76.0	40.0 - 75.0	X
#10	60.9		
#20	43.8		
#40	23.8		
#50	17.5	8.0 - 28.0	
#60	14.7		
#100	9.3		
#200	6.2	0.0 - 10.0	

**Material Description**

Brown 1.5" max m/f SAND some gravel trace silt  
Lab proctor test not requested

**Atterberg Limits**

PL= NP      LL= NV      PI= NP

**Coefficients**

D<sub>85</sub>= 7.8101      D<sub>60</sub>= 1.8950      D<sub>50</sub>= 1.0985  
D<sub>30</sub>= 0.5378      D<sub>15</sub>= 0.2557      D<sub>10</sub>= 0.1644  
C<sub>u</sub>= 11.53      C<sub>c</sub>= 0.93

**Classification**

USCS= SP-SM      AASHTO= A-1-b

**Remarks**

Sampled by Joel Morin (Yankee) on 04/24/20  
Did not meet M1.03.0 "Gravel Borrow" gradation limits  
Fine on 1/2" and #4 sieves

\* MSH&B M1.03.0-Type D gravel borrow

**Sample No.:** 28409  
**Location:** Core 15

**Source of Sample:** Newton Coring

**Date:** 04/27/20  
**Elev./Depth:**

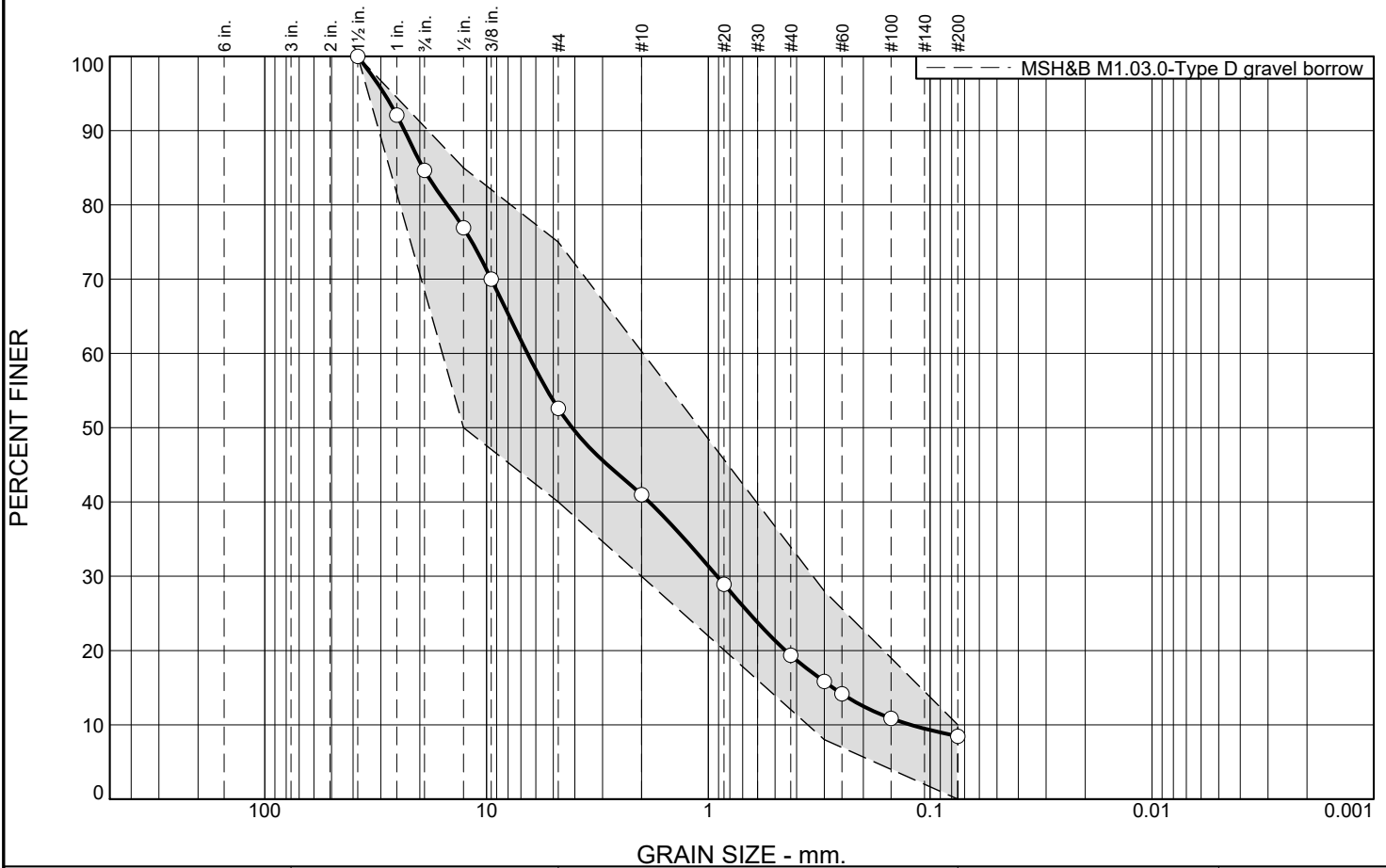
YANKEE ENGINEERING  
& TESTING, INC.

**Client:** BETA Group, Inc.  
**Project:** BETA Group, Inc.  
Various Projects/Sites  
**Project No.:** 19098

Tested By: JO

Checked By: SMM

# Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0.0	47.4	44.2	8.4	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1-1/2"	100.0	100.0	
1"	92.1		
3/4"	84.6		
1/2"	76.9	50.0 - 85.0	
3/8"	70.0		
#4	52.6	40.0 - 75.0	
#10	41.0		
#20	28.9		
#40	19.4		
#50	15.8	8.0 - 28.0	
#60	14.2		
#100	10.9		
#200	8.4	0.0 - 10.0	

**Material Description**

Gray 1.5" max GRAVEL and m/c sand trace silt  
Lab proctor test not requested

**Atterberg Limits**

PL= NP      LL= NV      PI= NP

**Coefficients**

D<sub>85</sub>= 19.3437      D<sub>60</sub>= 6.5381      D<sub>50</sub>= 4.1125  
D<sub>30</sub>= 0.9139      D<sub>15</sub>= 0.2743      D<sub>10</sub>= 0.1225  
C<sub>u</sub>= 53.36      C<sub>c</sub>= 1.04

**Classification**

USCS= GW-GM      AASHTO= A-1-a

**Remarks**

Sampled by Joel Morin (Yankee) on 04/24/20  
Sample met M1.03.0 "Gravel Borrow" gradation limits

\* MSH&B M1.03.0-Type D gravel borrow

**Sample No.:** 28410  
**Location:** Core 16

**Source of Sample:** Newton Coring

**Date:** 04/27/20  
**Elev./Depth:**

YANKEE ENGINEERING  
& TESTING, INC.

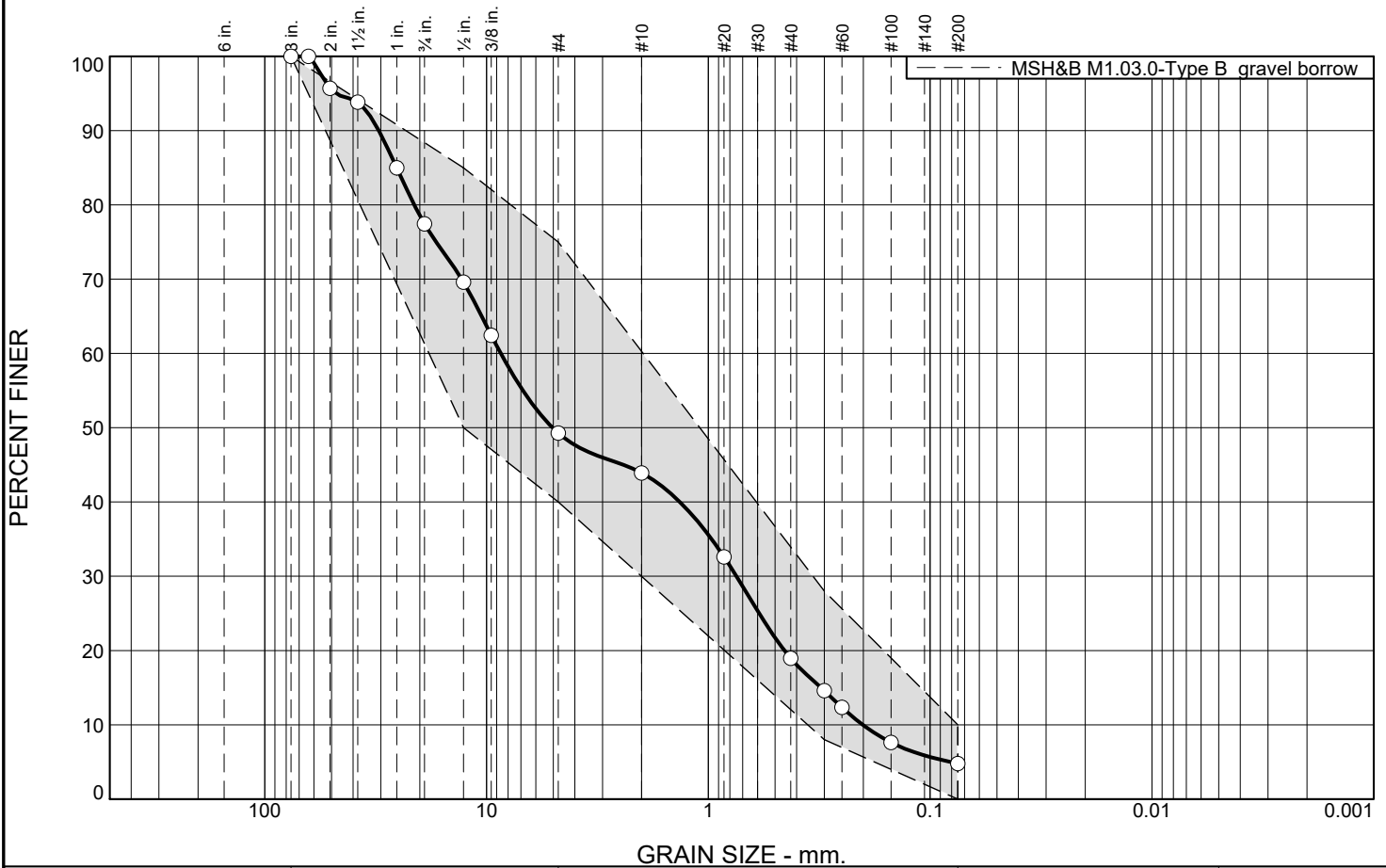
**Client:** BETA Group, Inc.  
**Project:** BETA Group, Inc.  
Various Projects/Sites  
**Project No.:** 19098

Tested By: JO

Checked By: SMM



# Particle Size Distribution Report



% +3"	% Gravel	% Sand	% Silt	% Clay
0.0	50.7	44.5	4.8	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3"	100.0	100.0	
2-1/2"	100.0		
2"	95.7		
1-1/2"	93.8		
1"	85.0		
3/4"	77.5		
1/2"	69.6	50.0 - 85.0	
3/8"	62.4		
#4	49.3	40.0 - 75.0	
#10	43.9		
#20	32.6		
#40	18.9		
#50	14.6	8.0 - 28.0	
#60	12.3		
#100	7.6		
#200	4.8	0.0 - 10.0	

**Material Description**

Gray 2.5" max GRAVEL and m/f sand trace silt  
Lab proctor test not requested

**Atterberg Limits**

PL= NP      LL= NV      PI= NP

**Coefficients**

D<sub>85</sub>= 25.4119      D<sub>60</sub>= 8.6237      D<sub>50</sub>= 5.0406  
D<sub>30</sub>= 0.7475      D<sub>15</sub>= 0.3106      D<sub>10</sub>= 0.2012  
C<sub>u</sub>= 42.85      C<sub>c</sub>= 0.32

**Classification**

USCS= GP      AASHTO= A-1-a

**Remarks**

Sampled by Joel Morin (Yankee) on 04/24/20  
Sample met M1.03.0 "Gravel Borrow" gradation limits

\* MSH&B M1.03.0-Type B gravel borrow

**Sample No.:** 28411  
**Location:** Core 17

**Source of Sample:** Newton Coring

**Date:** 04/27/20  
**Elev./Depth:**

YANKEE ENGINEERING  
& TESTING, INC.

**Client:** BETA Group, Inc.  
**Project:** BETA Group, Inc.  
Various Projects/Sites  
**Project No:** 19098

Tested By: JO

Checked By: SMM