



Public Facilities Committee Agenda

City of Newton In City Council

Wednesday, March 6, 2019

6:30 PM
Room 204

The Public Facilities Committee will meet jointly with the Programs and Services Committee to discuss the following two items

Referred to Programs & Services, Public Facilities, and Finance Committees

- #101-19 **Authorization to submit an SOI to the MSBA for Countryside School**
SUPERINTENDENT OF SCHOOLS requesting authorization to submit a Statement of Interest (SOI) – Core Program to the Massachusetts School Building Authority (MSBA) for consideration of funding for a renovation/addition of Countryside Elementary School, designated as the highest priority for a major project after Cabot Elementary School and Lincoln–Eliot Elementary School and Newton Early Childhood Program.

Referred to Public Facilities and Finance Committees

- #100-19 **Request to bond \$1,364,006 for boilers at Bigelow Middle School**
HER HONOR THE MAYOR requesting authorization to appropriate one million three hundred sixty-four thousand six dollars (\$1,364,006) from bonded indebtedness for the purpose of paying costs, including incidental and/or related costs, of replacing the boilers at Bigelow Middle School for which the City may be eligible for a grant from the Massachusetts School Building Authority (MSBA). The funds are to be expended under the direction of the Commissioner of Public Buildings.

The Public Facilities Committee will meet jointly with the Public Safety and Transportation Committee to discuss the following two items

Referred to Public Safety & Trans., Public Facilities, and Finance Committees

- #103-19 **Request to bond \$5.6 million for the West Newton Square Project**
HER HONOR THE MAYOR requesting authorization to appropriate five million six hundred thousand dollars (\$5,600,000) from bonded indebtedness for the purpose of funding the construction of the West Newton Square, which includes street and pedestrian improvements, traffic flow upgrades, signal upgrades, parking upgrades, and the addition of bike lanes.
- #49-18 **Updates on the Accelerated Roads Program**
PUBLIC FACILITIES COMMITTEE requesting periodic updates on the Accelerated Roads Program.

The location of this meeting is accessible and reasonable accommodations will be provided to persons with disabilities who require 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 or (617) 796-1253. The city's TTY/TDD direct line is: 617-796-1089. For the Telecommunications Relay Service (TRS), please dial 711.

Referred to Finance and Appropriate Committees

#542-18

Submittal of the FY 2020 to FY 2024 Capital Improvement Plan

HER HONOR THE MAYOR submitting the Fiscal Years 2020 to 2024 Capital Improvement Plan pursuant to section 5-3 of the Newton City Charter.

Respectfully submitted,

Deborah Crossley, Chair

CITY OF NEWTON

DOCKET REQUEST FORM

DEADLINE NOTICE: Council Rules require items to be docketed with the Clerk of the Council NO LATER THAN 7:45 P.M. ON THE MONDAY PRIOR TO A FULL COUNCIL MEETING.

To: Clerk of the City Council

Date: 2/26/19

From (Docketer): David Fleishman, Superintendent

Address: Newton Public Schools, 100 Walnut Street, Newton

Phone: 617-559-6100

E-mail: david fleishman@newton.k12.ma.us

Additional sponsors: Liam Hurley, Assistant Superintendent/CFAO

1. Please docket the following item (it will be edited for length if necessary):

Superintendent Fleishman is requesting a vote of the City Council to authorize the Superintendent of Schools to submit a request to the Massachusetts School Building Authority (MSBA) for consideration of funding (Statement of Interest - Core Program) for a renovation/addition of Countryside Elementary School, designated as the highest priority for a major project after Cabot and Lincoln-Eliot and Newton Early Childhood.

This item needs committee review and City Council Authorization before April ¹² 8, 2019. This is the due date for the application to MSBA.

2. The purpose and intended outcome of this item is:

- | | |
|--|---|
| <input type="checkbox"/> Fact-finding & discussion | <input type="checkbox"/> Ordinance change |
| <input type="checkbox"/> Appropriation, transfer, | <input type="checkbox"/> Resolution |
| <input type="checkbox"/> Expenditure, or bond authorization | <input type="checkbox"/> License or renewal |
| <input type="checkbox"/> Special permit, site plan approval, | <input type="checkbox"/> Appointment confirmation |
| <input type="checkbox"/> Zone change (public hearing required) | <input checked="" type="checkbox"/> Other: <u>Authorization to submit to MSBA</u> |

3. I recommend that this item be assigned to the following committees:

- | | | |
|---|---|--|
| <input type="checkbox"/> Programs & Services | <input checked="" type="checkbox"/> Finance | <input type="checkbox"/> Real Property |
| <input type="checkbox"/> Zoning & Planning | <input type="checkbox"/> Public Safety | <input type="checkbox"/> Special Committee |
| <input checked="" type="checkbox"/> Public Facilities | <input type="checkbox"/> Land Use | <input type="checkbox"/> No Opinion |

4. This item should be taken up in committee:

Immediately (Emergency only, please). Please state nature of emergency:

- As soon as possible, preferably within a month
- In due course, at discretion of Committee Chair
- When certain materials are made available, as noted in 7 & 8 on reverse
- Following public hearing

5. I estimate that consideration of this item will require approximately:

#101-19

- One half hour or less
- More than one hour
- More than one meeting
- Up to one hour
- An entire meeting
- Extended deliberation by subcommittee

6. The following people should be notified and asked to attend deliberations on this item. (Please check those with whom you have already discussed the issue, especially relevant Department Heads):

City personnel

Citizens (include telephone numbers/email please)

Liam Hurley, Schools x9025

Maureen Lemieux, Exec. x1100

Josh Morse, Pub. Builings x1600

David Stickney, Schools x9000

Julie Kirrane, Schools x9025

7. The following background materials and/or drafts should be obtained or prepared by the Clerk's office prior to scheduling this item for discussion:

- | |
|---|
| <ul style="list-style-type: none"> 1. A copy of the material to be Statement of Interest to be submitted to MSBA for Countryside 2. Form of vote required |
|---|

8. I have or intend to provide additional materials and/or undertake the following research independently prior to scheduling the item for discussion. *

Certified Vote of the School Committee (expected March 4, 2019)

(*Note to docketer: Please provide any additional materials beyond the foregoing to the Clerk's office by 2 p.m. on Friday before the upcoming Committee meeting when the item is scheduled to be discussed so that Councilors have a chance to review all relevant materials before a scheduled discussion.)

Please check the following:

- 9. I would like to discuss this item with the Chairman before any decision is made on how and when to proceed.
- 10. I would like the Clerk's office to contact me to confirm that this item has been docketed. My daytime phone number is:
- 11. I would like the Clerk's office to notify me when the Chairman has scheduled the item for discussion.

Thank you.



Signature of person docketing the item

[Please retain a copy for your own records]

REQUIRED FORM OF VOTE TO SUBMIT A STATEMENT OF INTEREST

REQUIRED VOTES

If a City or Town, a vote in the following form is required from both the City Council/Board of Aldermen **OR** the Board of Selectmen/equivalent governing body **AND** the School Committee.

If a regional school district, a vote in the following form is required from the Regional School Committee only.

FORM OF VOTE

Please use the text below to prepare your City's, Town's or District's required vote(s).

Resolved: Having convened in an open meeting on March 4, 2019 prior to the closing date, the City Council of Newton, Massachusetts in accordance with its charter, by-laws, and ordinances, has voted to authorize the Superintendent to submit to the Massachusetts School Building Authority the Statement of Interest Form dated April 12, 2019 for the **Countryside School located at 191 Dedham Street which describes and explains the following deficiencies and the priority category(s) for which an application may be submitted to the Massachusetts School Building Authority in the future for: replacement, renovation or modernization of school facility systems, such as roofs, windows, boilers, heating and ventilation systems, to increase energy conservation and decrease energy related costs in a school facility; replacement of or addition to obsolete buildings in order to provide for a full range of programs consistent with state and approved local requirements;** and hereby further specifically acknowledges that by submitting this Statement of Interest Form, the Massachusetts School Building Authority in no way guarantees the acceptance or the approval of an application, the awarding of a grant or any other funding commitment from the Massachusetts School Building Authority, or commits the City/Town/Regional School District to filing an application for funding with the Massachusetts School Building Authority.

DOCUMENTATION OF VOTE

Documentation of each vote must be submitted as follows:

For the vote of the City Council/Board of Aldermen or Board of Selectmen/equivalent governing body, a copy of the text of the vote must be submitted with a certification of the City/Town Clerk that the vote was duly recorded and the date of the vote must be provided.

For the vote of the School Committee, Minutes of the School Committee meeting at which the vote was taken must be submitted with the original signature of the Committee Chairperson.

DRAFT Proposed Schedule for Countryside SOI by April 12, 2019

- February 11, 2019 Vote of School Committee votes that, after Cabot Elementary School, Countryside Elementary School is designated the district's highest priority for a major project to be submitted to the MSBA for its FY19 SOI process. The School Committee receives the draft SOI for review prior to the March 4, 2019 vote.
- February 22, 2019 Docket request by Superintendent is sent to David Olson with SOI Draft attached to meet docket deadline of February 25, 2019.
- March 4, 2019 Vote of School Committee to approve the Draft SOI
- March 4, 2019 On Docket of City Council – referred to Programs & Services and Public Facilities.
- March 6, 2019 Programs & Services meets jointly with Public Facilities to vote to approve SOI.
- March 11, 2019 Finance Committee
- March 18, 2019 Vote of City Council on resolution authorizing submittal of SOI to MSBA.
- April 12, 2019 MSBA Deadline for SOI submittal.**

Alternate schedule if necessary for any reason including weather or other cancellations:

- March 20, 2019 Programs & Services meets jointly with Public Facilities to vote to approve SOI.
- March 25, 2019 Finance Committee
- April 1, 2019 Vote of City Council on resolution authorizing submittal of SOI to MSBA.
- April 12, 2019 MSBA Deadline for SOI Submittal**

2019 Countryside SOI - CORE PROGRAM – **DRAFT 2/7/19**

SOI MAIN TAB

Is this part of a larger facilities plan? Please provide an overview of the plan including as much detail as necessary to describe the plan, its goals, and how the school facility that is the subject of this SOI fits into that plan (maximum of 5000 characters)? Yes

HMFH Architects, Inc. (2007, 2011); Self-prepared 2012 - present

In a context of significant enrollment growth, Newton has been engaged in long-range planning since the early 2000's. Over this time, a significant growth trend occurred that has resulted in a K12 population increase from 11,267 to 12,685 students, or 13% growth. The K5 population had the steepest increase from 4,938 to 5,824 students by 2017-18, or 17% growth, and has now stabilized. After this sustained 13-year growth period, every grade cohort has experienced growth that is now fully integrated in all grade levels. In the next five years, overall district enrollment is projected to remain stable around 12,700 students, with elementary growth projected to decrease slightly in the next five years while high school enrollment continues to grow.

A formal master plan was initiated in 2007, and conducted by HMFH Inc. The plan provided facility conditions assessment, space needs and long-range utilization plans using both engineering/facility and educational standards for its evaluation. HMFH completed an update of the plan in 2011 with the launch of Newton's current long-range plan to correct facilities deficiencies by sequencing major and mid-sized projects at 15 elementary schools, which at that time included two of the oldest schools in the state in the worst condition (Angier, Cabot).

Newton continues to update its long-range plan annually since 2012 and has developed consensus for the elementary facilities plan that provides critically needed modernization of school buildings and capacity expansion. The plan is fully coordinated with the city's capital plan which outlines multi year financial support. The plan is based on detailed enrollment projections that document the capacity needed to address classroom shortages for both regular education as well as the needs of special populations. Significant progress has been made on the long-range plan which identified Angier and Cabot as Newton's top priorities due to age, condition and overcrowding. A 2013 debt exclusion funded the Angier, Zervas and Cabot school buildings plus ten modular classrooms to address short term severe crowding. In partnership with the MSBA, a newly constructed Angier was reopened in January 2016 and Cabot will open in September 2019. Zervas was Newton's second school to be rebuilt since its location and site offered an opportunity to expand capacity, and was funded locally. Zervas reopened in September 2017 with six additional classrooms and has an enlarged school district. Cabot will open in September 2019 with four additional classrooms. The Angier, Zervas and Cabot projects will have added capacity for approximately 200 students and, through two phases of redistricting, will have eased crowding at other schools. Five of Newton's 15 elementary school will still have enrollment above capacity in 2019-20, so local enrollment pressure points continue require careful management.

Although enrollment has stabilized recently, Newton is studying the potential impact of 1,785 additional units of housing in two large and two small residential developments in Newton. One of the proposals has already filed its special permit application for an 822-unit development located in the Countryside district, and is under city council committee review. There is a potential enrollment impact at Countryside, currently estimated at 70 students, for a total enrollment of 449 students in ten years (2028-29). Countryside's recommended enrollment capacity is 20 classrooms and 440 students.

Countryside Elementary School was constructed in 1953 as a small neighborhood school. In the decades since it opened the neighborhood has grown tremendously adding enrollment pressures that led the Newton to add an annex only five years later in 1958. In the past 60 years enrollment pressures continued not only from increases in single family residences but also from large scale apartment development, e.g. the Avalon Bay project on Needham Street. All of this growth resulted in the building of modular classroom adjacent to the annex. The modular construction has created very inefficient circulation. The modulars were installed over two decades ago.

A properly reconstructed Countryside School is the next highest priority, after Cabot, on Newton's long-range plan due to facility condition issues, the facility's failure to support the educational program and the extensive reliance upon inferior quality short-term annex construction as well as modular classrooms. Further, the district has had recent periods of enrollment crowding (enrollment above 500 students) at the facility which required the drastic action of relocating of an entire kindergarten class to different schools. The district also recognizes that there is considerable future residential development in the planning stages and there are no longer any intermediate actions, such as the installation of modular building, available on the school's very constrained and wet site. The school is adjacent to the Needham Street Area for which the City has developed a "Vision Plan." That plan includes adding diverse residential options including multi-unit housing including affordable units. A proposal for a mixed use project in the Countryside district by Northland Investment Corporation is under review by the City and could add over 800 residential units with a potential to generate close to 150 additional public school age students. As a result, enrollments at Countryside could exceed its current capacity. The MSBA's 2016 School Survey determined that Countryside is "overcapacity" in utilization of general space.

Does the District have a Master Educational Plan that includes facility goals for this building and all school buildings in District? YES

Newton has developed Education Plans in conjunction with the Angier, Zervas and Cabot school building projects that document Newton's educational plan for modern school buildings that support standards for teaching and learning in the 21st century. Standards promote the education, health and well-being of all students; highly effective teaching environments, efficient operations, and anticipate future programmatic change while maintaining standards of performance and reliability.

Is there overcrowding at the facility? No

Please provide a description of the local budget approval process for a potential capital project with the MSBA. Include schedule information (i.e. Town Meeting dates, city council/town council meetings dates, regional school committee meeting dates). Provide, if applicable, the District's most recent budget approval process that resulted in a budget reduction and the impact of the reduction to the school district (staff reductions, discontinued programs, consolidation of facilities (maximum of 2000 characters).

The FY19 School Committee Approved Budget is \$227,560,263, and includes an \$8.4 million increase, 3.8% over the FY18 budget of \$219,436,486. The budget process began in November 2017 with the approval by the School Committee of the District wide Goals which directs budget priorities. The budget process involves a comprehensive review by district and school administrators of existing and proposed school functions, planning for adjusted costs and future changes or new educational initiatives. The budget process culminates in a public presentation by the Superintendent, public meetings to review specific areas of the budget, public hearings, a school committee straw vote and a final vote of approval. Following the Newton Public Schools' process, the budget is presented to the City Council, reviewed and voted by that body in conjunction with the approval of the city of Newton's operating and capital annual budgets. The FY19 budget continues to support Newton Public Schools core mission to meet the diverse

educational, social and emotional needs of all students while narrowing the achievement gap, promoting critical thinking skills, providing mental health supports, and sustaining teacher professional development and collaboration. FY19 budget also expands the ongoing maintenance of buildings and expands in-district special education facilities.

General Description

BRIEF BUILDING HISTORY: Please provide a detailed description of when the original building was built, and the date(s) and project scopes(s) of any additions and renovations (maximum of 5000 characters).

Countryside School was constructed in 1953 as a small neighborhood school. It was one of five new elementary schools built to accommodate the post-WWII enrollment boom in Newton between 1950-1955. The original building was 35,910 gross square feet and consisted of 13 classrooms, a gym, library, auditorium, main office, two sets of girls and boys restrooms, and a pair of staff bathrooms. A 6 classroom annex addition was constructed in 1958 to address the rising school enrollment. A single bathroom with one fixture was added as part of this project. In 1986, two additional annex classrooms were constructed on the north end of the annex. In 1991, 1999, and 2000 a total of four modular classrooms, smaller than regular classrooms, and two offices were constructed. With the five additions, the number of classrooms, staff, and students were doubled with no increase in support spaces such as restrooms, offices, storage, small group instruction, or special education. The total square footage including the original building, the additions and modular space is 65,000 gsf.

The school had as many as 25 classrooms at one time and 500 students (during enrollment peaks in 1998 and 2010), but currently 19 classrooms are being used for individual grades and a total enrollment of 413 students. In addition, one classroom was divided into two classrooms to allow for ELL, Inclusion, and Special Education spaces which also occupy two modulares. A modular classroom is currently being repurposed for use as an Art Room, as the art program had been offered “on a cart” for a number of years due to lack of space for the program, and recently in a former storage location behind the gymnasium. The music program does not have its own space, and currently occupies the stage in the cafeteria. Currently there are 10 individual grade classrooms in the 1953 building, and 9 individual grade classrooms in the annex and modulares. The library, gym, and auditorium are all sized for a school population approximately half the size of the current enrollment. Overall, the entire school is about half the square footage it should be based on the enrollment. The quantity of classrooms is adequate, but conditions are severely lacking. Support spaces are minimal and undersized throughout the school. There is only one breakout space for small group instruction. Many of the Special Education spaces either don’t exist or are inadequate. OT/PT has a small office space. Offices for support staff either don’t exist, or have been placed in areas that should not be occupied, The auditorium was converted to a cafeteria in 2009 by removing the seating and evening out the floor. The warming kitchen is across the corridor and very small and inadequate for healthy and nutritious lunch service. The HVAC system is steam by natural gas with classroom unit ventilators with supplemental radiation. The annex and modular classrooms are substantially colder in the winter months than the original wing. Two boilers were replaced in 2007 and 2012. The 2007 boiler has been completely submerged at least twice due to flooding in the school. The boiler room has experienced flood levels as high as 12 feet which has taken its toll on all of the mechanical, electrical and plumbing equipment.

A vertical lift was installed in 2010. This lift was allowed at the time but is no longer allowed to be constructed as a permanent means of vertical accessible travel. The cab of the lift is approximately 3 ft. by 4 ft. A school building security project was implemented, funded through a Homeland Security Grant. Electronic access card readers were installed on two exterior doors. All appropriate staff has electronic

access via key fob device. Access to the building is much more secure and records of access by individuals is monitored via a live database.

TOTAL BUILDING SQUARE FOOTAGE: Please provide the original building square footage PLUS the square footage of any additions.

original bldg 35,910

modulars 5,653

additions (annex) 23,437

SITE DESCRIPTION: Please provide a detailed description of the current site and any known existing conditions that would impact a potential project at the site. Please note whether there are any other buildings, public or private, that share this current site with the school facility. What is the use(s) of this building(s)? (maximum of 5000 characters).

Countryside School sits on a 322,065 square foot parcel (7.39 acres), which is comprised of approximately 65,000 sf of wetlands, 120,000 square feet of school and parking, and 137,065 square feet of open space currently used as a baseball field and playground. Approximately 2/3 of the site sits within the 200 foot Riverfront Protection Act area, including half of the existing building. The water table is close to grade throughout most of the eastern portion of the site, including the areas where the annexes and modular classrooms are sited. The Department of Public Works completed a storm water project in 2012 that addressed chronic flooding in the courtyard of the school, which often resulted in flooding of the school itself. Site grading at the perimeter causes standing water accumulation at the main entry and creates a safety risk.

ADDRESS OF FACILITY: Please type address, including number, street name and city/town, if available, or describe the location of the site. (Maximum of 300 characters)

191 Dedham Street, Newton Highlands, Massachusetts

BUILDING ENVELOPE: Please provide a detailed description of the building envelope, types of construction materials used, and any known problems or existing conditions (maximum of 5000 characters).

The flat roof on the 1953 portion of the original building was replaced in 2012. The roofs on all of the annexes and modular classrooms are beyond their useful life and need to be replaced. Water regularly pools on these roofs. Exterior walls of the 1953 building are load bearing and made of masonry with concrete sills and polished granite at the main entries, all in good condition with some staining at the sills.

The windows in the 1953 original portion of the building were replaced in 1990, while the windows in the annexes and modular classrooms are original and mostly beyond their useful life. They are aluminum with thermal break and thermal glazing, fixed and single hung. These are difficult to operate and have metal louvers in poor condition. Other windows are steel frame, single-pane glazing with metal louvers that are original and in poor condition. The connection from the main building to the additions is comprised of single pane hollow metal steel framed curtain wall, which is the same system for the windows in the annex classrooms. The thermal efficiency of these systems is extremely low. Cold temperatures in this connection are a challenge during heating season. The modular classrooms are a combination of single and double pane vinyl replacement windows, single pane metal windows, and storm windows. Some doors are inaccessible and original to the building and in very poor condition.

Newer doors are in good condition. Areaways are brick/CMU with metal grates in good condition. The exterior steps are concrete as are stoops and ramps with; metal handrails and guardrails, in good condition, but rails are rusting. Canopies are metal-edged, flat roofed with brick piers and metal panel soffits. The metal is worn and faded. There are no structural concerns. Flooding at the basement level may cause a health risk.

Has there been a Major Repair or Replacement of the EXTERIOR WALLS? YES

Year of Last Major Repair or Replacement:(YYYY) 1990

Description of Last Major Repair or Replacement:

Exterior masonry wall system replaced in 1990

Roof Section A 1953 original building

Is the District seeking replacement of the Roof Section? No

Area of Section (square feet) 26,790 s.f.

Type of ROOF (e.g., PVC, EPDM, Shingle, Slate, Tar & Gravel, Other (please describe))
EPDM

Age of Section (number of years since the Roof was installed or replaced) 7

Description of repairs, if applicable, in the last three years. Include year of repair: N/A

Roof Section B 1958 Annex

Is the District seeking replacement of the Roof Section? Yes

Area of Section (square feet) 14,376 s.f.

Type of ROOF (e.g., PVC, EPDM, Shingle, Slate, Tar & Gravel, Other (please describe))
Rubber

Age of Section (number of years since the Roof was installed or replaced) 12

Description of repairs, if applicable, in the last three years. Include year of repair: 2009-2018

This roof section has had over 40 requests for repairs since the beginning of 2009. Major and minor repairs have been made over the years.

Window Section A

Is the District seeking replacement of the Windows Section? NO

Windows in Section (count) 176

Type of WINDOWS (e.g., Single Pane, Double Pane, Other (please describe)) Double Pane/Thermopane

Age of Section (number of years since the Windows were installed or replaced) 29

Description of repairs, if applicable, in the last three years. Include year of repair: None

Window Section B

Is the District seeking replacement of the Windows Section? Yes

Windows in Section (count) 219

Type of WINDOWS (e.g., Single Pane, Double Pane, Other (please describe))
Thermopane in modular classrooms and single pane in 1958 and 1986 Annex Additions

Age of Section (number of years since the Windows were installed or replaced)

19 (modular classrooms) / 60 years (1958 annex)

Description of repairs, if applicable, in the last three years. Include year of repair: None

MECHANICAL and ELECTRICAL SYSTEMS: Please provide a detailed description of the current mechanical and electrical systems and any known problems or existing conditions (maximum of 5000 characters).

HVAC: The HVAC system is steam by natural gas with classroom unit ventilators with supplemental radiation. The steam boilers were replaced in 2007 and 2012. The 2007 boiler has been completely submerged at least twice due to flooding in the school. The boiler room itself has seen flood levels as high as 12 feet which has taken its toll on all of the mechanical, electrical, and plumbing equipment. The heating system was converted to natural gas in 2011, and the underground oil storage tanks were removed the same year. Some of the classroom unit ventilators and rooftop hvac equipment has been replaced over the years, but most of the distribution system is original, beyond its useful life, and in poor condition. There is very limited control over the heating systems, and with the exception of some of the modular classrooms, the school is not air conditioned. Two of the 9 RTU's were replaced in 2018 but the remaining 7 RTU's (roof top units) that are part of the HVAC systems in the annexes and modulares are beyond useful life, failing, failed, and/or in poor condition. With exposed ductwork and mechanical systems, the acoustical performance negatively impacts the learning environment. Dual range actuators for the outside air dampers have been installed in the classrooms.

Plumbing: Most of the plumbing in the building is original although some bathroom fixtures have been replaced. Due to elevation challenges throughout the site, the sewage lines cannot pitch adequately to allow for gravity drainage. This means that there are sewage ejector pumps in the small crawl spaces throughout the building. These are no longer allowed by the plumbing code. These pumps have failed numerous times, resulting in sewage flooding throughout the school. One example of this is the sewage ejector pump directly below the nurse's office. The smell of sewer gases always exists, but this ebbs and flows based on the operation of these pumps. There are two very large sump pumps in the boiler room that never stop running. The basement sits 6 feet below the water table, and the boiler room sits 12 feet below the water table. When the pumps fail the basement floods within a few hours, which is catastrophic as the only storage for curriculum materials, gym equipment, and custodial supplies and equipment is in the basement. The basement area is chronically damp, and by all records has never been dry. Piping is original in fair to poor condition with limited accessibility. Repairs to any of the failed sewer ejector pumps require crawling 50-100 feet through the sewage. This also means that when these pumps fail, sewage sits beneath the first floor classrooms. Domestic hot water is not available at all sinks. The domestic water circulator is in poor condition.

Fire Protection and Detection: The fire alarm panel was replaced in 2016, but only a small portion of the devices are addressable. Therefore, responses are likely only to the building, and not to a specific area within the building. The fire alarm distribution system is in poor condition and needs to be replaced. The school has no fire suppression systems. The multi-zone fire alarm system is ADA compliant with auditorium and corridor smoke detectors and door holders. Heat detectors are located in the basement, and there is a master box.

Accessibility: A vertical lift was installed in 2010, which provides programmatic access to the 2nd floor of the building. This lift was allowed at the time, but is no longer allowed to be constructed as a permanent means of vertical accessible travel. The "cab" of the lift is approximately 3' by 4', which means that it can only accommodate one child and an adult, and in some cases an adult cannot fit. A few restrooms have had minor investments made to improve accessibility, but currently there are no girls restrooms that have the clearances needed to allow for wheelchair access, and once in there are no accessible restroom stalls exist. The boys restrooms have accessible stalls, but clearances are not sufficient for wheelchair access. The ramp leading from the 1953 building, to the annexes is not ADA or MAAB compliant. The

playground is not programmatically accessible. The door hardware is not accessible, and the signage throughout the building is not ADA compliant.

Electrical: Lighting and lighting controls were replaced in 2017, but the vast majority of the electrical distribution is original. The entire building was converted to LED lighting including the exterior lighting. The main electrical switch gear is in poor condition and resides in an area prone to flooding. Electrical service equipment is 400A, 3 phase, 4 wire, 120/208V in fair condition, but without sufficient working clearances. The distribution system consists of circuit breaker panel boards with conduit and wire feeders and is 50+ years old. There is a 150kW diesel exterior generator that serves corridor and stair lighting and boilers, but it is not in a 2 hour fire-rated room for life safety system equipment. The multi-zone fire alarm system is ADA compliant with auditorium and corridor smoke detectors and door holders. Heat detectors are located in the basement, and there is a master box. As part of the proposed Renovation/Addition project electrical systems are to be updated to meet current codes.

Boiler Section 1 2007 Boiler

Is the District seeking replacement of the Boiler? Yes as part of the renovation/addition project

Is there more than one boiler room in the School? No

What percentage of the School is heated by the Boiler? 100%

Type of heating fuel (e.g., Heating Oil, Natural Gas, Propane, Other) (Maximum of 250 characters) Natural Gas

Age of Boiler (number of years since the Boiler was installed or replaced): 12

Description of repairs, if applicable, in the last three years. Include year of repair: (Maximum of 1500 characters)

While only 12 years old, the 2007 boiler has been submerged in flood waters twice decreasing its useful life.

Boiler Section 2 2012 Boiler

Is the District seeking replacement of the Boiler? Yes as part of the renovation/addition project

Is there more than one boiler room in the School? No

What percentage of the School is heated by the Boiler? 100%

Type of heating fuel (e.g., Heating Oil, Natural Gas, Propane, Other) (Maximum of 250 characters) Natural Gas

Age of Boiler (number of years since the Boiler was installed or replaced) 7

Description of repairs, if applicable, in the last three years. Include year of repair: (Maximum of 1500 characters) No repairs, only routine maintenance

Has there been a Major Repair or Replacement of the HVAC SYSTEM? NO

Year of Last Major Repair or Replacement:(YYYY) 1958

Description of Last Major Repair or Replacement: (Maximum of 1500 characters)

Some classroom unit ventilators have been replaced over the years. Repaired minor steam leaks 2010 and completed a steam trap survey and implemented all of the recommendations of that survey. Installation of 2 new RTU's (rooftop units) in Annex portion of the building in 2018.

Has there been a Major Repair or Replacement of the ELECTRICAL SERVICES AND DISTRIBUTION SYSTEM? NO

Year of Last Major Repair or Replacement:(YYYY) 1958/1999 electrical modifications to accommodate modular classrooms; 2107

Description of Last Major Repair or Replacement: (Maximum of 1500 characters)

The vast majority of the electrical distribution system is original. The main electrical switch gear is in poor condition and resides in an area prone to flooding. In 2017, lighting controls were replaced and the entire building was converted to LED lighting including the exterior lighting. As part of the renovation/addition project all electrical systems are to be upgraded to current code.

BUILDING INTERIOR: Please provide a detailed description of the current building interior including a description of the flooring systems, finishes, ceilings, lighting, etc. (maximum of 5000 characters).

Partitions are glazed CMU at the corridors, painted plaster walls are typical with 1x1 ACT at the upper walls, and painted gypsum board, in good condition, but there is no acoustic privacy in some sensitive spaces. Door surrounds are not accessible. There is VAT, VCT, carpet, and terrazzo in fair condition throughout the building. Ceilings are 1x1 ACT, painted plaster; 2x2 ACT and 2x4 ACT. There are wood solid core doors; some painted, with metal and wood frames in fair condition, some are original. Doorways are not accessible, hardware is not accessible either. Built-in furnishings are made of wood, metal, and laminate and are in poor shape, original to the building. Two classrooms do not have sinks, other sinks are not accessible. Lockers are metal, single-tier, 15x60 for 2 students. There are also wooden cubbies that are open. Rolling shades are typical and in good condition. Adult bathrooms are CMU, ceramic tile, VCT, and have wood/metal partitions. They are in poor condition, not accessible, and are too few in quantity and are poorly distributed. Student bathrooms are original and are in poor condition, are not accessible, too few in quantity, and are poorly distributed. They are glazed CMU full height, 2x2 terrazzo tile, painted plaster ceilings, and half have painted steel partitions. In 2008 half of the partitions were replaced with high-density PVC and the floors were refinished with epoxy. The stairs are painted concrete with steel nosing, with wood/metal handrails and guardrails. Railings and stair nosing are not accessible. There is no elevator and there is no signage. In the gymnasium there is a wood athletic floor and backstops are in good condition. Walls are glazed CMU, full height with 2x2 ACT, but there is a major vertical crack. The cafeteria has VAT and a poured concrete floor; painted plaster, and acoustic treatments at the ceiling, in good condition. There is wood paneling at the platform surround and wainscot and painted plaster with acoustic treatments at the walls. The wood platform is not accessible and is in poor condition. The auditorium was converted to a cafeteria in 2009 with a new flat floor installed. The stage is used for music instruction. There are floor to ceiling folding wall panels that can divide the space into lunch areas separate from the music area. The kitchen is for warming only and is small but is functional. The telephone system is good with multiple outside lines. Lighting is generally 2x2 and 2x4 recessed fluorescent; surface wrap around in classrooms and some corridors. Receptacles are generally standard type and are over 50 years old. There are key fob operated devices at specific doors. Motion detectors are in corridors and stairs that notify UL Central Station. There is a push button video access device at two front doors and a buzzer in the office area. The sound and intercom system consist of privacy switches and surface speakers in classrooms; corridor speakers, and exterior speakers. The classrooms and offices have battery clocks. Corridor speakers have bell tone. There is data in classrooms and office areas and some wireless. A vertical lift was installed, summer 2010. Interior finishes are to be updated as part of the proposed Renovation/addition project. The vast majority of the electrical distribution system is original. In 2017 the entire building was converted to LED lighting including the exterior lighting.

PROGRAMS and OPERATIONS: Please provide a detailed description of the current grade structure and programs offered and indicate whether there are program components that cannot be offered due to facility constraints, operational constraints, etc. (maximum of 5000 characters).

The grade structure at Countryside Elementary School is Kindergarten through Grade 5. The Newton Public Schools has articulated specific instructional time allotments for elementary core subjects, which

include reading, writing, mathematics, science, social studies and social curriculum. Specialist programs both enhance the core program and provide contractual preparation time for classroom teachers.

Programs offered include:

Regular education classrooms for grades K-5

Full neighborhood inclusion

One co-taught classes taught jointly by regular and special education teachers.

Special Education programs including, occupational/physical therapy, speech, applied behavioral analysis

English Language Learners programs/sheltered English instruction, and the STRIDE program.

After school program

The district has been required to take measures so that every available space within each building can be utilized to support teaching and learning and to meet the needs of students. The Countryside building does not accommodate small group instruction associated with an inclusive education practices adopted by Newton, as required by special education laws.

EDUCATIONAL SPACES: Please provide a detailed description of the Educational Spaces within the facility, a description of the number and sizes (in square feet) of classrooms, a description of science rooms/labs including ages and most recent updates, a description of the cafeteria, gym and/or auditorium and a description of the media center/library (maximum of 5000 characters).

Countryside has 24 core academic spaces:

19 instructional classrooms (1 of these is in modular classroom)

1 literacy/ELL classroom (Rm 1)

1 inclusion classroom (in a modular),

1 small group instruction/breakout classroom (in a modular),

1 ELL room (½ classroom) and 1 special education room (½ classroom)

Special Services

1 District Wide SPED - STRIDE classroom and one Art classroom (in a modular.)

The average size of classrooms is 811 nsf

Room 1- 770 nsf, Literacy/ELL

Room 2 - 770 nsf, Gr.1

Room 3 - 770 nsf, co-taught Gr. 4

Room 4 - 770 nsf, Gr.1

Room 5 - 770 nsf, Gr. 1

Room 6 - 770 nsf, divided in two each 385 nsf., special education & ELL

Room 10 - 667 nsf - Gr. 5

Room 11 - 770 nsf, Gr. 5

Room 12 - 770 nsf, Gr. 5

Room 13 - 770 nsf, Gr. 4

Room 14 - 770 nsf, districtwide sped program

Room 15 - 770 nsf, Gr. 4

Room 16 - 770 nsf, Gr. 4

Room 1a - 783 nsf, Annex, Gr. 3

Room 2a - 783 nsf, Annex, Gr. 3

Room 3a- 810 nsf, Annex, Gr. K

Room 4a - 810 nsf, Annex, Gr. K

Room 5a - 810 nsf, Annex, Gr. K

Room 6a - 810 nsf, Annex, Gr. 2

Room 7a - 810 nsf, Annex, Gr. 2

Room 8a - 810 nsf, Annex, Gr. 2
 Room 9a - 728 nsf, 1991 Modular, Inclusion
 Room 10a - 728 nsf, 1991 Modular, Art room
 Room 11a - 812 nsf, 2000 Modular, Gr. 3
 Room 12a - 812 nsf, 2000 Modular, Small Group Instruction
 Music - Stage, area included in Cafetorium nsf
 Library - 1032 nsf;
 Cafetorium, 4080 nsf (includes 916 sf stage/music area)
 Gym 2400 nsf
 CASP aftercare, 1102 sf (behind the gym)

CAPACITY and UTILIZATION: Please provide the original design capacity and a detailed description of the current capacity and utilization of the school facility. If the school is overcrowded, please describe steps taken by the administration to address capacity issues. Please also describe in detail any spaces that have been converted from their intended use to be used as classroom space (maximum of 5000 characters).

Countryside School has a current enrollment of 413 students. The facility constraints at Countryside to deliver the full education program have been addressed to the extent possible by utilizing modular structures and adapting spaces with the building to maximize space available for the programs. Spaces have been subdivided for teachers and programs to share them. Twenty-five percent of the classrooms, the library and music classroom are undersized when compared to MSBA guidelines for elementary schools. Spaces have been converted from their intended use, the former kindergarten classroom is now the library. Larger specialist spaces have been partitioned off to create multiple small specialist rooms and a storage room has been converted to a tutorial space. Along with creative reassignment of spaces, capacity issues have been addressed at Countryside by adding four modular classrooms.

The MSBA capacity rating for the Countryside School is noted as “overcapacity” in the 2016 MSBA School Survey Report. Without reliance on the outdated aging temporary classrooms, Countryside would be overcrowded. These modular classrooms are located at both ends of a 1958 six classroom annex wing where issues of condition, temperature and humidity are significant, and are exacerbated in the modular classrooms. While overcrowding on Newton’s southside has been relieved with the completion of Angier and Zervas, the Northland Investment Corporation has filed an application for a special permit to develop a mixed use project in the Countryside district which proposes 822 housing units, 123 of which will be affordable units. If approved it would be expected to generate student growth. A recently updated school enrollment forecast model was completed by the district, City staff and a consultant funded by a MassHousing grant to develop fiscal impacts from the project. This model has forecasted a net 142 new public school students (about half at elementary school) in the from the project which, depending on when the housing unit construction is phased, is likely to affect capacity after 2023.

MAINTENANCE and CAPITAL REPAIR: Please provide a detailed description of the district’s current maintenance practices, its capital repair program, and the maintenance program in place at the facility that is the subject of this SOI. Please include specific examples of capital repair projects undertaken in the past, including any override or debt exclusion votes that were necessary (maximum of 5000 characters).

Regular maintenance and preventative maintenance programs are funded annually by the district in accordance with the City of Newton's Charter Maintenance Ordinance with a funding requirement of up to 2% of the prior fiscal year budget. The schools have followed and exceeded this requirement in order to maintain its aging building stock. In addition, capital repairs are undertaken in conjunction with funding from the City of Newton's Capital Improvement Program (CIP) with financing from bonding and/or the use of free cash for one-time expenses. No capital repair projects at the Countryside Elementary School have required override or debt exclusion votes.

Preventative maintenance (PM) and regular repair and maintenance work orders are processed in a web-based electronic system enabling efficiency and data gathering. Custodians receive annual training on PM procedures. The district's PM program includes: 1) Asbestos inspection every 3 years, 2) Boiler cleaning annually, 3) Elevator inspections, 4) Emergency generator inspections monthly, 5) Fire suppression testing annually, 6) Replacing carpet with vinyl tile, 7) HVAC maintenance including duct cleaning, 8) Infrared roof inspection, 9) Steam trap replacement, 10) Unit vent filter changes 3x/year.

The district's Summer Projects program customizes repairs and improvements to each building, including items as painting, flooring, bathroom upgrades and space re-organization to meet enrollment/programmatically demands.

The City's Capital Improvement Program funds larger construction or repair projects from a plan formulated jointly with the Public Buildings Department and include includes the following types of projects district-wide: 1) Construction/additions/renovations, 2) Accessibility improvements, 3) Communication system upgrades, 4) Large-scale masonry repairs/waterproofing, 5) Generators, 6) HVAC system, including replacement of boilers, roof top units, univents, 7) Energy efficient lighting installation, 8) Roof/gutter replacements, and 9) Building-wide window/door replacements.

The following capital projects were implemented at Countryside and funded by the City's capital improvement program and operations budget. Installation of modulares, replacements of roof top ventilation units, major replacements of wall and window systems. In 2017 lighting controls were replaced and the entire building was converted to LED lighting including the exterior lighting. As part of the renovation/addition project all electrical systems are to upgraded to current code.

The current capital improvement program includes the replacement of doors and windows and to set aside \$30,000,000 in funds toward a renovation/addition project. The source of these funds is 'alternate funding', contingent upon local approval.

Priority 5

Replacement, renovation or modernization of school facility systems, such as roofs, windows, boilers, heating and ventilation systems, to increase energy conservation and decrease energy related costs in a school facility.

Guidance for Priority 5

Districts should only check Priority 5 if a major building system is in need of replacement, renovation, or modernization in order to extend the useful life of the building. Districts selecting Priority 5 must provide all requested information in the appropriate spaces provided at the bottom of the page.

*** The determination of whether something qualifies as a Priority 5 rests solely with the MSBA, and the MSBA shall not be bound by the opinions or judgments of the district.**

Question 1: Please provide a detailed description of the issues surrounding the school facility systems (e.g., roof, windows, boilers, HVAC system, and/or electrical service and distribution system) that you are indicating require repair or replacement. Please describe all deficiencies to all systems in sufficient detail to explain the problem.

Roof: The flat roof on the 1953 portion of the original building (Roof Section A) was replaced in 2012 and is in good condition The roofs on all of the annexes and modular classrooms are beyond their useful

life and need to be replaced. Water pools on them. This roof section over the annex (Roof Section B) has had over 40 requests for repairs since the beginning of 2009. Major and minor repairs have been made over the years.

Boilers and HVAC: The HVAC system is steam by natural gas with classroom unit ventilators with supplemental radiation. The steam boilers were replaced in 2007 and 2012. The 2007 boiler has been completely submerged at least twice due to flooding in the school. The boiler room itself has seen flood levels as high as 12 feet which has taken its toll on all of the mechanical, electrical, and plumbing equipment. The heating system was converted to natural gas in 2011, and the underground oil storage tanks were removed the same year. Some of the classroom unit ventilators and rooftop hvac equipment has been replaced over the years, but most of the distribution system is original, beyond its useful life, and in poor condition. With the exception of some of the modular classrooms, the building is not air conditioned. A complete steam trap survey was conducted and the district implemented all of the recommendations of that survey. Two of the 9 RTU's were replaced in 2018 but the remaining 7 RTU's (rooftop units) that are part of the HVAC systems in the annexes and modulares are beyond useful life, failing, failed, and/or in poor condition. With exposed ductwork and mechanical systems, the acoustical performance negatively impacts the learning environment. . Dual range actuators for the outside air dampers have been installed in the classrooms. As part of the proposed Renovation/addition project all HVAC systems are to be updated.

Plumbing: Most of the plumbing in the building is original although some bathroom fixtures have been replaced. Due to elevation challenges throughout the site, the sewage lines cannot pitch adequately to allow for gravity drainage. This means that there are sewage ejector pumps in the small crawl spaces throughout the building. These are not allowed by the plumbing code. These pumps have failed countless times, resulting in sewage flooding throughout the school. One example of this is the sewage ejector pump directly below the nurse's office. The smell of sewer gases always exists, but this ebbs and flows based on the operation of these pumps. There are two very large sump pumps in the boiler room that never stop running. The basement sits 6 feet below the water table, and the boiler room sits 12 feet below the water table. When the pumps fail the basement floods within a few hours, which is catastrophic as the only storage for curriculum materials, gym equipment, and custodial supplies and equipment is in the basement. The basement area is chronically wet, and by all records has never been dry. Piping is original in fair to poor condition with limited accessibility. Repairs to any of the failed sewer ejector pumps require crawling 50-100 feet through the sewage. This also means that when these pumps fail, sewage sits beneath the first floor classrooms. Domestic hot water is not available at all sinks. The domestic water circulator is in poor condition. As part of the proposed Renovation/addition project all plumbing systems are to be updated.

Fire Protection and Detection: The fire alarm panel was replaced in 2016, but only a small portion of the devices are addressable. Therefore, responses are likely only to the building, and not to a specific area within the building. The fire alarm distribution system is in poor condition and needs to be replaced. The school has no fire suppression systems. The multi-zone fire alarm system is ADA compliant with auditorium and corridor smoke detectors and door holders. Heat detectors are located in the basement, and there is a master box. As part of the proposed Renovation/addition project all Fire Protection and Detections Systems are to be updated.

Accessibility: A vertical lift was installed in 2010, which provides programmatic access to the 2nd floor of the building. This lift was allowed at the time, but is no longer allowed to be constructed as a permanent means of vertical accessible travel. The "cab" of the lift is approximately 3' by 4', which means that it can only accommodate one child and an adult, and in some cases an adult cannot fit. A few restrooms

have had minor investments made to improve accessibility, but currently there are no girls restrooms that have the clearances needed to allow for wheelchair access, and once in there are no accessible restroom stalls exist. The boys restrooms have accessible stalls, but clearances are not sufficient for wheelchair access. The ramp leading from the 1953 building, to the annexes is not ADA or MAAB compliant. The playground is not programmatically accessible. The door hardware is not accessible, and the signage throughout the building is not ADA compliant. As part of the proposed Renovation/Addition project Accessibility issues are to be updated to meet current ADA standards.

Electrical: Lighting and lighting controls were replaced in 2017, but the vast majority of the electrical distribution is original. The entire building was converted to LED lighting including the exterior lighting. The main electrical switch gear is in poor condition and resides in an area prone to flooding. Electrical service equipment is 400A, 3 phase, 4 wire, 120/208V in fair condition, but without sufficient working clearances. The distribution system consists of circuit breaker panel boards with conduit and wire feeders and is 50+ years old. There is a 150kW diesel exterior generator that serves corridor and stair lighting and boilers, but it is not in a 2 hour fire-rated room for life safety system equipment. The multi-zone fire alarm system is ADA compliant with auditorium and corridor smoke detectors and door holders. Heat detectors are located in the basement, and there is a master box. As part of the proposed Renovation/Addition project electrical systems are to be updated to meet current codes.

Question 2: Please describe the measures the district has already taken to mitigate the problem/issues described in Question 1 above.

The roofing system over the original 1953 section of the building was replaced with an EPDM roof in 2012. The roofing system over the 1958 annex building has had major repairs numerous times over the years and should be replaced.

Based on current best practices and Newton's education mission, educational and building standards that address the reduction of energy consumption have been established as part of the facilities operations plan. In recent years, energy efficient lighting has been installed throughout the district by partnering with the NSTAR Lighting Rebate Program. The City has hired an energy specialist to oversee the implementation of measures and policies that have a direct impact on reduced energy consumption while improving equipment operation and occupant comfort. The district has clear policies and procedures for reducing energy use throughout the day and evening. Heat is not turned on within school buildings until October 15 of each year. During the school day thermostats are kept at the lowest required temperatures. Staff are encouraged to arrange classroom furnishing to maximize distribution of heat. Policies are in place to turn off lights and use natural lighting whenever possible. The district periodically sends out reminders regarding these energy conservation policies.

In 2012, the City of Newton entered into a contract with Thielsch Engineering. This company has conducted an energy audit of the Countryside School and has reviewed the historic consumption of all utilities and the available energy cost savings that will result from recommended energy conservation projects that will deliver those savings.

Question 3: Please provide a detailed explanation of the impact of the problem/issues described in Question 1 above on your district's educational program. Please include specific examples of how the problem prevents the district from delivering the educational program it is required to deliver and how students and/or teachers are directly affected by the problem identified.

Teaching and Learning at Countryside is highly impacted by the facility due to its age and condition, and the reliance on the 9-classroom annex/modular wing built with temporary construction methods, and also due to the fact that the facility severely lacks adequate support spaces. The condition of building systems create environmental conditions that do not support teaching and learning: The vast majority of mechanical, electrical, and plumbing systems at Countryside are original and not up to current code. The HVAC distribution system is mostly original to the buildings creating uneven heating conditions. Ventilation is below standard and lacking in some spaces. Increased levels of humidity are present throughout the building. The school has too few toilet rooms for both students and staff.

The difficult layout of the building that results in navigation through multiple levels and a lengthy breezeway dividing the facility impedes access to instruction for students including a general lack of ADA accessibility. The building is not accessible or ADA compliant in many ways, reliant upon an inadequate lift for programmatic accessibility. While there is a cafetorium it is not near the warming kitchen.

The facility relies on undersized spaces for instruction and lacks small instructional spaces required with current educational practices and the full inclusion of students with a spectrum of needs. When built, Countryside did not have SPED and ELL programs, children went home for lunch, kindergarten was a half-day double session, no after school programs existed, nor was there dedicated space for art and music instruction. SPED programs require self-contained classrooms and ancillary spaces for speech and language, OT and PT, ABA space (for autism spectrum disorders) and small group tutorial spaces. The impact of substandard spaces on teachers and student learning is significant. Many of the classrooms are undersized.

Question 4: Please describe how addressing the school facility systems you identified in Question 1 above will extend the useful life of the facility that is the subject of this SOI and how it will improve your district's educational program.

The heating system of a building is a major piece of building infrastructure, and its replacement and/or modernization will extend the useful life of the facility. Since the heating system of this facility was constructed, technology has changed significantly; today there are high efficiency boilers, variable speed drives and sophisticated electronic controls for heating system management. Decreased maintenance needs for heating systems increases not only its useful life but has a positive effect on the building as a whole. Approximately one-third of our maintenance and repair budget is devoted to repairing failing heating equipment. There is an opportunity cost in this scenario whereby other facility systems must compete for dollars. Heating system emergencies take a high priority over other maintenance concerns. Heating system upgrades will reduce the operating cost and allow those dollars to be spent on preventative maintenance and other types of facility improvements. In addition, the recurrent flooding issues will only be resolved with a major reconfiguration to the site and removal of the modular buildings in a building renovation/addition.

Have the systems identified above been examined by an engineer or other trained building professional?

YES

If "YES", please provide the name of the individual and his/her professional affiliation (maximum of 250 characters)

Josh Morse, Public Buildings Commissioner
HMFH Architects Inc. Long-Range Facilities Master Plan 2007, updated 2011

The date of the inspection

11/1/2007 HMFH; 12/01/2018 Josh Morse

A summary of the findings (maximum of 5000 characters)

See Existing Conditions Report, by Josh Morse, Public Buildings Commissioner, 2018 submitted as supplemental materials.

Summary of findings by Josh Morse in Existing Conditions Report

The fact that half of the classrooms at Countryside reside in temporary modulars or poorly designed annexes, coupled with the overall condition of the original building, yields a strong need for capital investment. It is recommended that the 12 modular and annex classrooms be demolished, the 1954 building be renovated, and an 11-classroom addition with all of the appropriate support spaces be constructed. The removal of the 12 modulars and annexes will result in the loss of 11 classrooms and the art room, but the new addition will create 11 new classrooms, as well as appropriate spaces for ELL, Inclusion, and the Specialists Offices, which will restore two original classrooms in the 1954 building. In the end, this will yield 24 classrooms with all of the appropriate support spaces, and a school capable of handling upwards of 500 students. It is expected that the addition would be approximately 30,000 square feet, which would bring the total building gross area up to 65,910 square feet.

This is a rough breakdown of the proposed addition:

- 7 classrooms at 800 square feet
- 4 classrooms at 1200 square feet
- Art Room at 1200 square feet
- Library 2500 square feet
- Special Education 4000 square feet
- Restrooms/Miscellaneous 2900 square feet

Forty percent (40%) grossing/efficiency factor applied to the above yields a 30,000 square foot addition. A full programmatic evaluation may yield variances in the space needs, but those variances will have very minimal impacts to the footprint of the proposed addition.

The general scope of the renovation of the existing facility would be as follows:

- Mechanical system replacements, including air conditioning.
- Plumbing and Restroom Upgrades
- Electrical improvements and service replacement
- Fire Suppression Installation
- Fire Alarm Replacement
- Accessibility upgrades
- Window and Door replacement
- Minor Envelope repairs
- Interior finish upgrades and FF&E

PRIORITY 7**Replacement of or addition to obsolete buildings in order to provide for a full range of programs consistent with state and approved local requirements.****Guidance for Priority 7**

* The determination of whether something qualifies as a Priority 7 rests solely with the MSBA, and the MSBA shall not be bound by the opinions or judgments of the district.

Question 1: Please provide a detailed description of the programs not currently available due to facility constraints, the state or local requirement for such programs, and the facility limitations precluding the programs from being offered.

While the necessary education programs are currently being offered, they are being offered under constraints and in substandard spaces as described in the answer to Question 3.

Question 2: Please describe the measures the district has taken or is planning to take in the immediate future to mitigate the problem(s) described above.

In the City of Newton's CIP, Item #71, \$30,000,000, is included in the next five years to renovate/add to Countryside School starting in FY 2021, as 'alternate funding' depending upon local approval. Also in the CIP is an item for replacement of doors and windows: Item #175, \$500,000 not currently funded in the next five years.

Question 3: Please provide a detailed explanation of the impact of the problem described in this priority on your district's educational program. Please include specific examples of how the problem prevents the district from delivering the educational program it is required to deliver and how students and/or teachers are directly affected by the problem identified.

Teaching and Learning at Countryside is highly impacted by the facility due to its age and condition, and the reliance on the 9-classroom annex/modular wing built with temporary construction methods, and also due to the fact that the facility severely lacks adequate support spaces. The facility constraints at Countryside to deliver the full education program have been addressed to the extent possible by utilizing modular structures and adapting spaces with the building to maximize space available for the programs. Spaces have been subdivided for teachers and programs to share them. Twenty-five percent of the classrooms, the library and music classroom are undersized when compared to MSBA guidelines for elementary schools. Spaces have been converted from their intended use, the former kindergarten classroom is now the library. Larger specialist spaces have been partitioned off to create multiple small specialist rooms and a storage room has been converted to a tutorial space. Along with creative reassignment of spaces, capacity issues have been addressed at Countryside by adding four modular classrooms.

The facility relies on undersized spaces for instruction and lacks small instructional spaces required with current educational practices and the full inclusion of students with a spectrum of needs. When built, Countryside did not have SPED and ELL programs, children went home for lunch, kindergarten was a half-day double session, no after school programs existed, nor was there dedicated space for art and music instruction. SPED programs require self-contained classrooms and ancillary spaces for speech and language, OT and PT, ABA space (for autism spectrum disorders) and small group tutorial spaces. The impact of substandard spaces on teachers and student learning is significant. Many of the classrooms are undersized or simply not available.



RUTHANNE FULLER
MAYOR

**City of Newton, Massachusetts
Office of the Mayor**

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(617) 796-1089
E-mail
rfuller@newtonma.gov

February 25, 2019

Honorable City Council
Newton City Hall
1000 Commonwealth Avenue
Newton Centre, MA 02459

Councilors:

RECEIVED
MAYOR'S OFFICE
2019 FEB 25 PM 4:58
RUTHANNE FULLER
MAYOR, NEWTON, MA 02459

I write to request that your Honorable Council docket for consideration a request to authorize the following:

That the City of Newton appropriate the amount of One Million, Three Hundred Sixty Four Thousand, and Six (\$1,364,006) Dollars for the purpose of paying costs of replacing the boilers at Bigelow Middle School, 42 Vernon Street, Newton, MA 02458, including the payment of all costs incidental or related thereto (the "Project"), which proposed repair project would materially extend the useful life of the schools and preserve assets that otherwise are capable of supporting the required educational program, and for which the City may be eligible for a grant from the Massachusetts School Building Authority ("MSBA"), said amount to be expended under the direction of the Commissioner of Public Buildings. To meet this appropriation the Treasurer, with the approval of the Mayor, is authorized to borrow said amount under and pursuant to M.G.L. Chapter 44, or pursuant to any other enabling authority. Any premium received by the City upon the sale of any bonds or notes approved by this vote, less any such premium applied to the payment of the costs of issuance of such bonds or notes may be applied to the payment of costs approved by this vote, in accordance with Chapter 44, Section 20 of the General Laws, thereby reducing the amount authorized to be borrowed to pay such costs by a like amount.

The City acknowledges that the MSBA's grant program is a non-entitlement, discretionary program based on need, as determined by the MSBA, and any costs the City incurs in excess of any grant approved by and received from the MSBA shall be the sole responsibility of the City; provided further that any grant that the City may receive from the MSBA for the Project shall not exceed the lesser of (1) 32.47 percent (32.47 %) of eligible, approved project costs, as determined by the MSBA, or (2) the total maximum grant amount determined by the MSBA; and that the amount of borrowing authorized

pursuant to this vote shall be reduced by any grant amount set forth in the Project Funding Agreement that may be executed between the City and the MSBA.

Thank you for your consideration of this matter.

Sincerely,

A handwritten signature in black ink that reads "Ruthanne Fuller". The signature is written in a cursive style with a large, looping initial 'R'.

Ruthanne Fuller
Mayor



#100-19

CITY OF NEWTON, MASSACHUSETTS

PUBLIC BUILDINGS DEPARTMENT

52 ELLIOT STREET, NEWTON HIGHLANDS, MA 02461

Ruthanne Fuller, Mayor
Josh Morse
Building Commissioner

Telephone (617) 796-1600
Facsimile (617) 796-1601
TDD/tty # (617) 796-1608

January 25, 2019

Ruthanne Fuller, Mayor
Newton City Hall
1000 Commonwealth Avenue
Newton Centre, MA 02459

RE: Funding for Bigelow Boiler Replacement

Dear Mayor Fuller:

The Bigelow Boiler Replacement Project is being undertaken through a grant from the Massachusetts School Building Authority which is scheduled to vote on the Project Scope and Budget Agreement on February 13, 2019. Per MSBA requirements, the total amount of the project must be authorized.

At this time the Public Buildings Department requests the sum of \$1,364,006 to fund the project. The total project budget is estimated not to exceed that amount with an anticipated MSBA Grant of \$415,795 for an estimated local share of \$948,211.

Sincerely,

Josh Morse
Public Buildings Commissioner

cc: Maureen Lemieux, Chief Financial Officer
Alex Valcarce, Deputy Buildings Commissioner
Stephanie Tocci, Business Manager

Bigelow Boiler Replacement

2/25/2019

The Bigelow Boiler Replacement Project is being undertaken through a grant from the Massachusetts School Building Authority which is scheduled to vote on the Project Scope and Budget Agreement on February 13, 2019. Per MSBA requirements, the total amount of the project must be authorized. At this time the Public Buildings Department requests the sum of \$1,364,006 to fund the project.

Funds Required

Feasibility Study	37,000.00
OPM	103,500.00
Architect & Engineering	102,600.00
Construction	1,059,911.00
Contingency	60,995.00
	1,364,006.00



RUTHANNE FULLER
MAYOR

**City of Newton, Massachusetts
Office of the Mayor**

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E-mail
rfuller@newtonma.gov

February 25, 2019

Honorable City Council
Newton City Hall
1000 Commonwealth Avenue
Newton Centre, MA 02459

Councilors:

I write to request that your Honorable Council docket for consideration a request to authorize the appropriation of \$5,600,000 and authorize a general obligation borrowing of an equal amount for the purpose of funding the construction of the West Newton Square project.

Thank you for your consideration of this matter.

Sincerely,

Ruthanne Fuller
Mayor

RECEIVED
2019 FEB 25 PM 4:59
CITY OF NEWTON
1000 COMMONWEALTH AVENUE
NEWTON CENTRE, MA 02459

City of Newton



DEPARTMENT OF PUBLIC WORKS
OFFICE OF THE COMMISSIONER
1000 Commonwealth Avenue
Newton Centre, MA 02459-1449

Ruthanne Fuller
Mayor

To: Mayor Ruthanne Fuller
Maureen Lemieux, CFO
Jonathan Yeo, COO

From: Jim McGonagle, Commissioner of Public Works

Subject: West Newton Square Construction

Date: 2/25/19

RECEIVED
NEWTON CITY CLERK
2019 FEB 25 PM 4:59
DANIEL A. O'NEAL, CLERK
NEWTON, MA 02459

I write to request that the Honorable Council docket for consideration a request to authorize the appropriation of \$5,600,000 for the construction of the West Newton Square project. The project will include street and pedestrian improvements, traffic flow upgrades, signal upgrades, parking upgrades, and the addition of bike lanes.

Thank you for your consideration of this matter.

Sincerely,

Jim McGonagle
Commissioner of Public Works

Jim McGonagle
Commissioner

Telephone: (617) 796-1009 • Fax: (617) 796-1050 • jmcgonagle@newtonma.gov

#103-19

Draft

Proposed Condition: Trial both a single lane and a double lane on the eastbound side of Washington Street as traffic enters the square from the eastbound lanes over the Mass Turnpike (located between Elm and Cherry Streets).



Charles D. Baker, Governor
Karyn E. Polito, Lieutenant Governor
Stephanie Pollack, Secretary & CEO
Jonathan L. Gulliver, Highway Administrator



February 28, 2019

Mr. Barney S. Heath
Director of Planning and Development
City of Newton
1000 Commonwealth Avenue
Newton, Massachusetts 02459

Re: West Newton Square Enhancement Project

Dear Mr. Heath,

In accordance with the provisions contained in the Agreement between the Department of Public Works and City of Newton – Federal Aid Project No. M-4299(002), dated March 19, 1986, MassDOT has reviewed the plans for the West Newton Square enhancement project. The project includes improvements to the design, and construction of the roadway, sidewalk, and streetscape in West Newton Square.

In consultation with FHWA, MassDOT approves the proposed changes within the project limits as shown on the attached plans dated January 19, 2019 for West Newton Square project.

Please contact Raj Kulen, P.E. at 857-368-6305 if you have additional questions.

Sincerely,

John McInerney, P.E.
District 6 Highway Director

Cc: John McVann, Federal Highway Administration
Dave Belanger, MassDOT District 6 Operations
Courtney (Dwyer) Worhunsy, MassDOT District 6 Projects

**CITY OF NEWTON
PURCHASING DEPARTMENT
COMPARISON OF BIDS
INVITATION #19-46**

Intersection Improvements in West Newton Square

Bid Opening: February 21, 2019 at 10:00 a.m.
Public Works/Engineering - James McGonagle

Bidders

Intersection Improvements in West Newton Square

Alternate - 1
Total Base Bid & Alternate 1

Alternate - 2
Total Base Bid & Alternate 1,2

Alternate - 3
Total Base Bid & Alternate 1,2,3

Alternate - 4
Total Base Bid & Alternate 1,2,3,4

Alternate - 5
Total Base Bid & Alternate 1,2,3,4,5

Alternate - 6
Total Base Bid & Alternate 1,2,3,4,5,6

	A.R. Belli Inc.	I.W. Harding Co. Inc
	\$4,838,511.00	\$6,377,360.45
Alternate - 1	\$15,336.00	\$15,600.00
<i>Total Base Bid & Alternate 1</i>	<i>\$4,853,847.00</i>	<i>\$6,392,960.45</i>
Alternate - 2	\$38,161.00	\$32,100.00
<i>Total Base Bid & Alternate 1,2</i>	<i>\$4,892,008.00</i>	<i>\$6,425,060.45</i>
Alternate - 3	\$30,988.00	\$29,400.00
<i>Total Base Bid & Alternate 1,2,3</i>	<i>\$4,922,996.00</i>	<i>\$6,454,460.45</i>
Alternate - 4	\$38,658.00	\$42,769.00
<i>Total Base Bid & Alternate 1,2,3,4</i>	<i>\$4,961,654.00</i>	<i>\$6,497,229.45</i>
Alternate - 5	\$149,100.00	\$9,450.00
<i>Total Base Bid & Alternate 1,2,3,4,5</i>	<i>\$5,110,754.00</i>	<i>\$6,506,679.45</i>
Alternate - 6	\$7,000.00	\$14,000.00
<i>Total Base Bid & Alternate 1,2,3,4,5,6</i>	<i>\$5,117,754.00</i>	<i>\$6,520,679.45</i>

Awarded to:

Alternate #1

Alternate #2

Alternate #3

Department Head

Alternate #4

Alternate #5

Alternate #6

Chief Procurement Officer

Date

Mayor or her designee

Date

NOTES REGARDING SUBMITTED BIDS

#103-18

Bidders				A.R. Belli Inc.		I.W. Harding Co. Inc	
ITEM DESCRIPTION & BID PRICE				Unit Price	Annual	Unit Price	Annual
BID ALTERNATE (1) Smart Parking Meter Heads.							
PARKING METER	-24	EA	\$449.00	(\$10,776.00)	\$600.00	(\$14,400.00)	
SMART PARKING METER	24	EA	\$1,088.00	\$26,112.00	\$1,250.00	\$30,000.00	
TOTAL BID ALTERNATIVE 1:					\$15,336.00		\$15,600.00
BID ALTERNATE (2) Furniture Additions Set #1.							
PARK BENCH – TYPE ‘A’ – WITH BACK	3	EA	\$2,700.00	\$8,100.00	\$2,800.00	\$8,400.00	
PARK BENCH – TYPE ‘B’ – MODULAR	9	EA	\$1,778.00	\$16,002.00	\$1,300.00	\$11,700.00	
PARK BENCH – TYPE ‘C’ – BACKLESS	2	EA	\$2,449.00	\$4,898.00	\$2,500.00	\$5,000.00	
BICYCLE RACK TYPE ‘A’ – HEAVY DUTY	7	EA	\$1,149.00	\$8,043.00	\$700.00	\$4,900.00	
BICYCLE RACK TYPE ‘B’ – LOOP	2	EA	\$559.00	\$1,118.00	\$1,050.00	\$2,100.00	
TOTAL BID ALTERNATE 2:					\$38,161.00		\$32,100.00
BID ALTERNATE (3) Furniture Additions Set #2.							
PARK BENCH – TYPE ‘A’ – WITH BACK	3	EA	\$2,700.00	\$8,100.00	\$2,800.00	\$8,400.00	
PARK BENCH – TYPE ‘C’ – BACKLESS	7	EA	\$2,449.00	\$17,143.00	\$2,500.00	\$17,500.00	
BICYCLE RACK TYPE ‘A’ – HEAVY DUTY HOOP	5	EA	\$1,149.00	\$5,745.00	\$700.00	\$3,500.00	
TOTAL BID ALTERNATE 3:					\$30,988.00		\$29,400.00
BID ALTERNATE (4) Groundcover Plants.							
TAXUS X MEDIA DENSIFORMIS – DENSE YEW 18-24” B&B 36” OC	33	EA	\$116.00	\$3,828.00	\$120.00	\$3,960.00	
TAXUS X MEDIA HATFIELDI – HATFIELD YEW 2.5-3’ B&B 36” OC	3	EA	\$185.00	\$555.00	\$190.00	\$570.00	
TAXUS X MEDIA HATFIELDI – HATFIELD YEW 3-4’ B&B 36” OC	5	EA	\$229.00	\$1,145.00	\$240.00	\$1,200.00	
TAXUS X MEDIA HATFIELDI – HATFIELD YEW 4-5’ B&B 36” OC	8	EA	\$278.00	\$2,224.00	\$318.00	\$2,544.00	
HYDRANGEA QUERCIFOLIA “PEE WEE” – OAKLEAF HYDRANGEA 3.5-4’ B&B 36” OC	32	EA	\$232.00	\$7,424.00	\$240.00	\$7,680.00	
PACHYSANDRA PROCUMBENS – ALLEGHENY SPURGE 4” POT 9” OC	1231	EA	\$12.00	\$14,772.00	\$14.00	\$17,234.00	
LIRIOPE SPICATA – CREEPING LILY TURF 4” POT 9” OC	871	EA	\$10.00	\$8,710.00	\$11.00	\$9,581.00	
TOTAL BID ALTERNATE 4:					\$38,658.00		\$42,769.00
BID ALTERNATE (5) Banner Arms For Streetlight Posts.							
BANNER ARM	21	EA	\$7,100.00	\$149,100.00	\$450.00	\$9,450.00	
TOTAL BID ALTERNATE 5:					\$149,100.00		\$9,450.00
BID ALTERNATE (6) Solar Charging Station.							
SOOFA SOLAR CHARGING STATION	1	EA	\$7,000.00	\$7,000.00	\$14,000.00	\$14,000.00	
TOTAL BID ALTERNATIVE 6:					\$7,000.00		\$14,000.00
TOTAL BID PRICE (INCLUDING ALTERNATES (1) THROUGH (6))					\$5,117,754.00		\$6,520,679.45

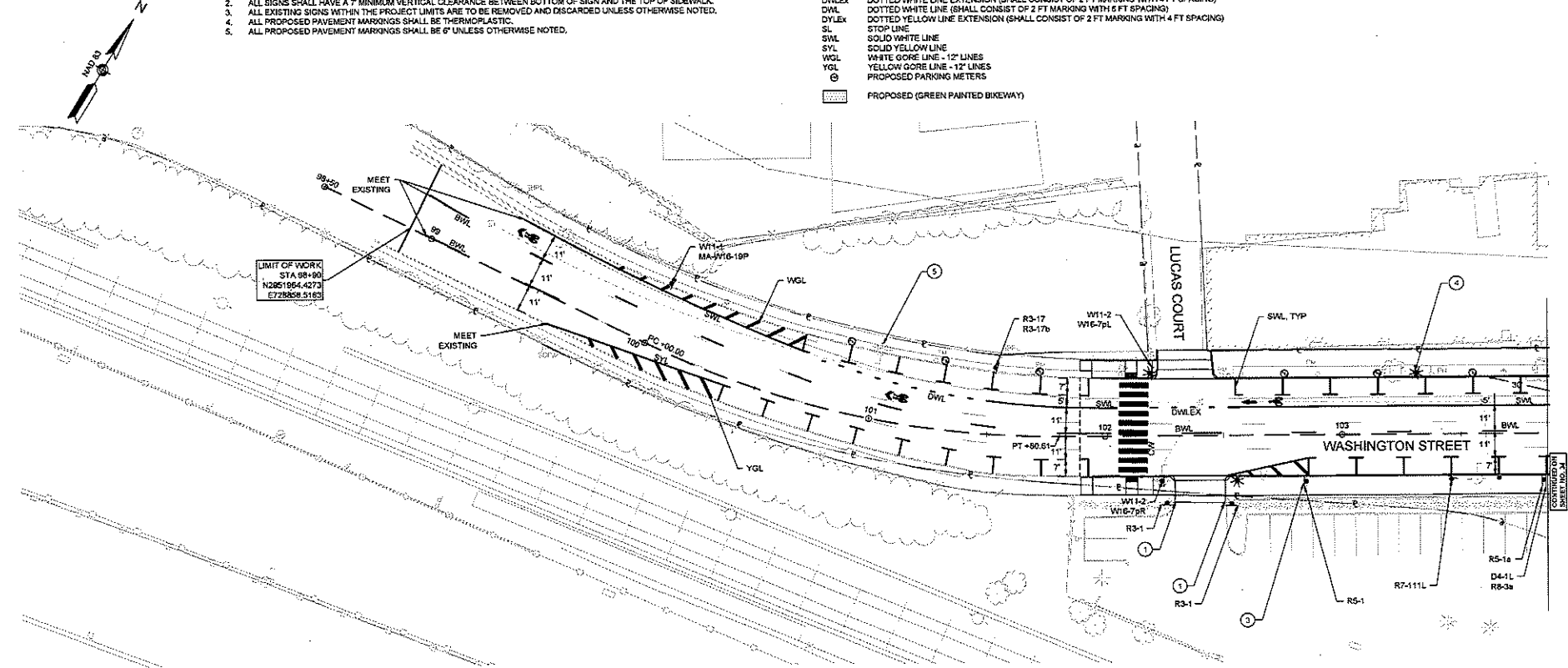
#103-18

GENERAL NOTES

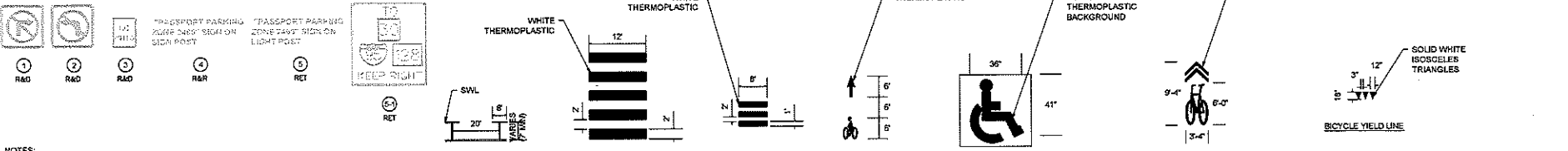
1. ALL SIGNS SHALL HAVE A 2" MINIMUM CLEARANCE BETWEEN EDGE OF SIGN AND FACE OF CURB.
2. ALL SIGNS SHALL HAVE A 7" MINIMUM VERTICAL CLEARANCE BETWEEN BOTTOM OF SIGN AND THE TOP OF SIDEWALK.
3. ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS ARE TO BE REMOVED AND DISCARDED UNLESS OTHERWISE NOTED.
4. ALL PROPOSED PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
5. ALL PROPOSED PAVEMENT MARKINGS SHALL BE 6" UNLESS OTHERWISE NOTED.

PAVEMENT MARKING LEGEND

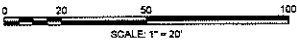
- BWL BROKEN WHITE LINE (SHALL CONSIST OF 10 FT MARKING WITH 30 FT SPACING)
- OW CROSSWALK
- DYL DOUBLE YELLOW LINE
- DWLEX DOTTED WHITE LINE EXTENSION (SHALL CONSIST OF 2 FT MARKING WITH 4 FT SPACING)
- DWL DOTTED WHITE LINE (SHALL CONSIST OF 2 FT MARKING WITH 6 FT SPACING)
- DYLEX DOTTED YELLOW LINE EXTENSION (SHALL CONSIST OF 2 FT MARKING WITH 4 FT SPACING)
- SL STOP LINE
- SWL SOLID WHITE LINE
- SYL SOLID YELLOW LINE
- WGL WHITE GORE LINE - 12" LINES
- YGL YELLOW GORE LINE - 12" LINES
- ⊙ PROPOSED PARKING METERS
- PROPOSED (GREEN PAINTED BIKEWAY)



LIMIT OF WORK
STA 98+90
N26°19'54.42" E
672.858' (515)

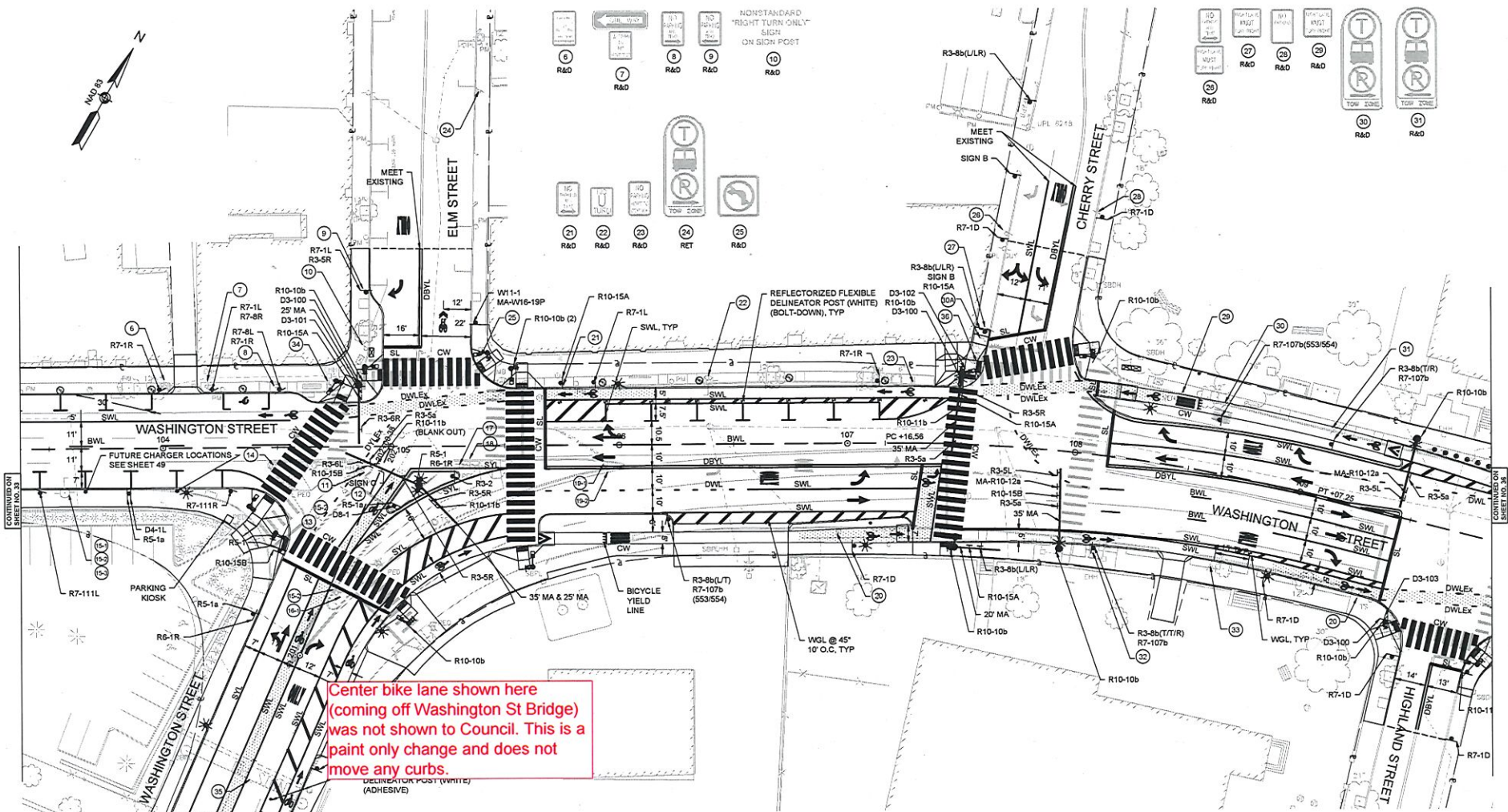
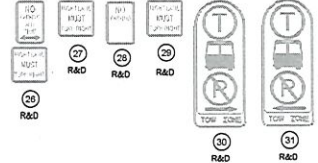


- NOTES:**
1. FOR CONSTRUCTION PLAN, SEE SHEET 11
 2. FOR CURB TIE & ALIGNMENT PLAN, SEE SHEET 17
 3. FOR GRADING PLAN, SEE SHEET 21
 4. FOR PEDESTRIAN RAMP DETAILS, SEE SHEET 28
 5. FOR DRIVEWAY DETAILS, SEE SHEET 29
 6. FOR UTILITY DETAILS, SEE SHEET 30
 7. FOR LIGHTING PLANS, SEE SHEET 48
 8. FOR LANDSCAPE MATERIALS PLANS, SEE SHEET 57



CITY OF NEWTON
MASSACHUSETTS
DEPARTMENT OF PUBLIC WORKS
FOR THE RECONSTRUCTION OF
WEST NEWTON SQUARE
TRAFFIC SIGN AND PAVEMENT MARKING PLAN
SCALE: AS NOTED DATE: 1/16/19 SHEET 33 OF 73

#10318

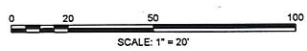
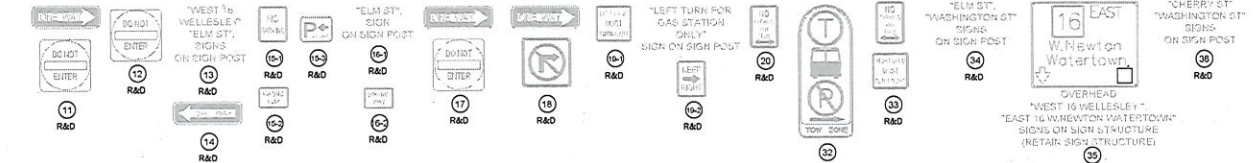


Center bike lane shown here (coming off Washington St Bridge) was not shown to Council. This is a paint only change and does not move any curbs.

CITY OF NEWTON
MASSACHUSETTS

PLOTTED ON January 16, 2019 1:10 PM

DESIGNED BY: RCP
CHECKED BY: RCP
APPROVED BY: RCP



- NOTES:
1. FOR CONSTRUCTION PLAN, SEE SHEET 12
 2. FOR CURB TIE & ALIGNMENT PLAN, SEE SHEET 18
 3. FOR GRADING PLAN, SEE SHEET 22
 4. FOR PEDESTRIAN RAMP DETAILS, SEE SHEETS 25-27
 5. FOR DRIVEWAY DETAILS, SEE SHEET 29
 6. FOR UTILITY DETAILS, SEE SHEETS 30-31
 7. FOR LIGHTING PLANS, SEE SHEET 49
 8. FOR LANDSCAPE MATERIALS PLANS, SEE SHEET 57

*NOTE: RIGHT MOST DOWN ARROW SHALL BE COVERED WITH MATCHING GREEN PANEL, SUCH THAT EXISTING ARROW IS COMPLETELY COVERED. THE MATCHING GREEN PANEL SHALL BE APPROVED BY METHOD APPROVED BY ENGINEER.

CITY OF NEWTON
MASSACHUSETTS
DEPARTMENT OF PUBLIC WORKS
FOR THE RECONSTRUCTION OF
WEST NEWTON SQUARE
TRAFFIC SIGN AND PAVEMENT MARKING PLAN

#103-18

SCALE: AS NOTED DATE: 1/16/19 SHEET 34 OF 73



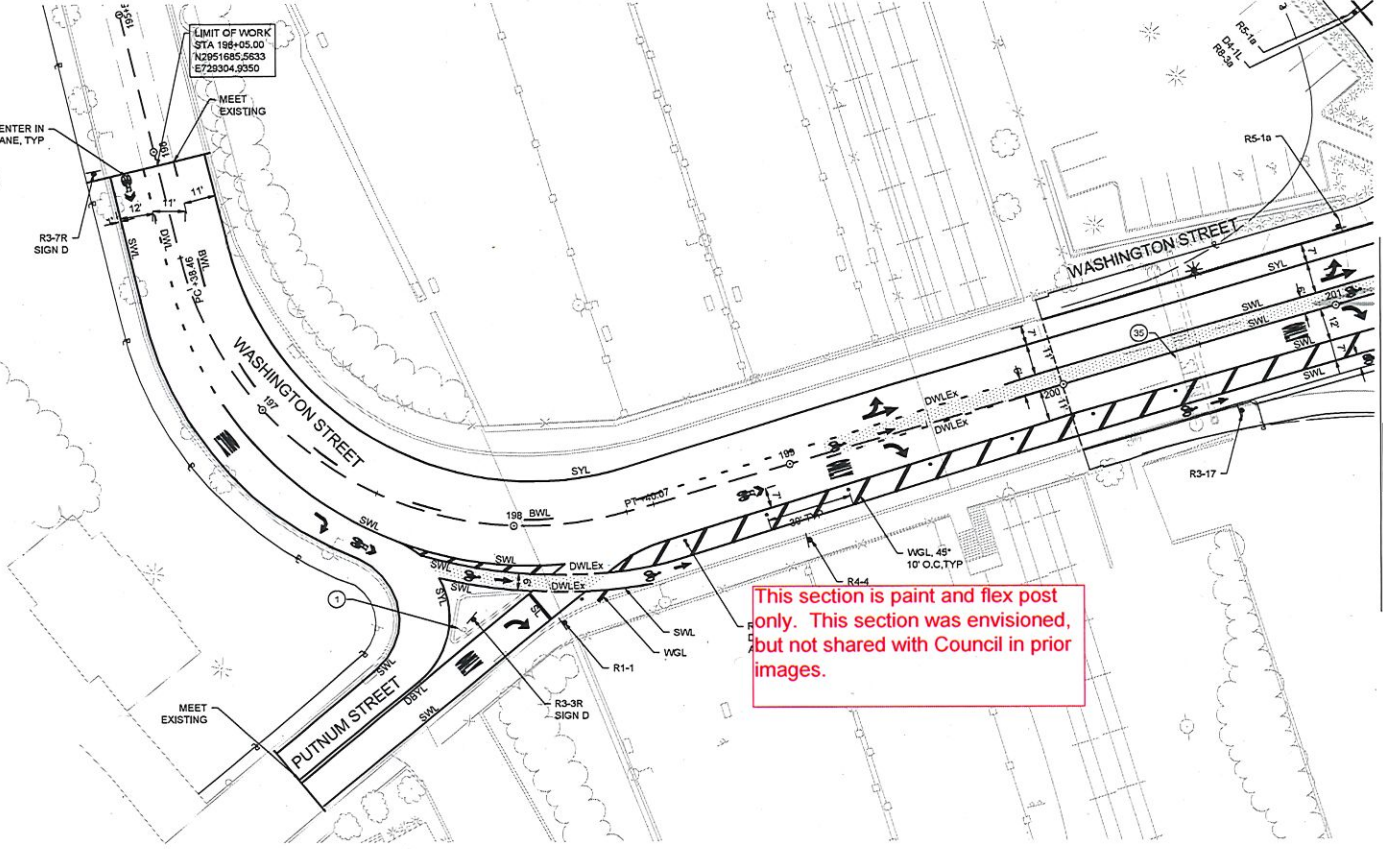
CITY OF NEWTON
MASSACHUSETTS

DESIGNED BY: RSP
CHECKED BY: RSP
APPROVED BY: RSK

PLOTTED ON January 16, 2019 1:10 PM



RET



NOTES:
1. REFLECTORIZED FLEXIBLE DELINEATOR POST (WHITE) PLACED ON THE EXISTING BRIDGE DECK SHALL BE ADHESIVE MOUNT ONLY. SEE CONSTRUCTION DETAILS AND SPECIAL PROVISIONS.

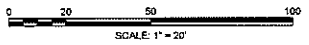
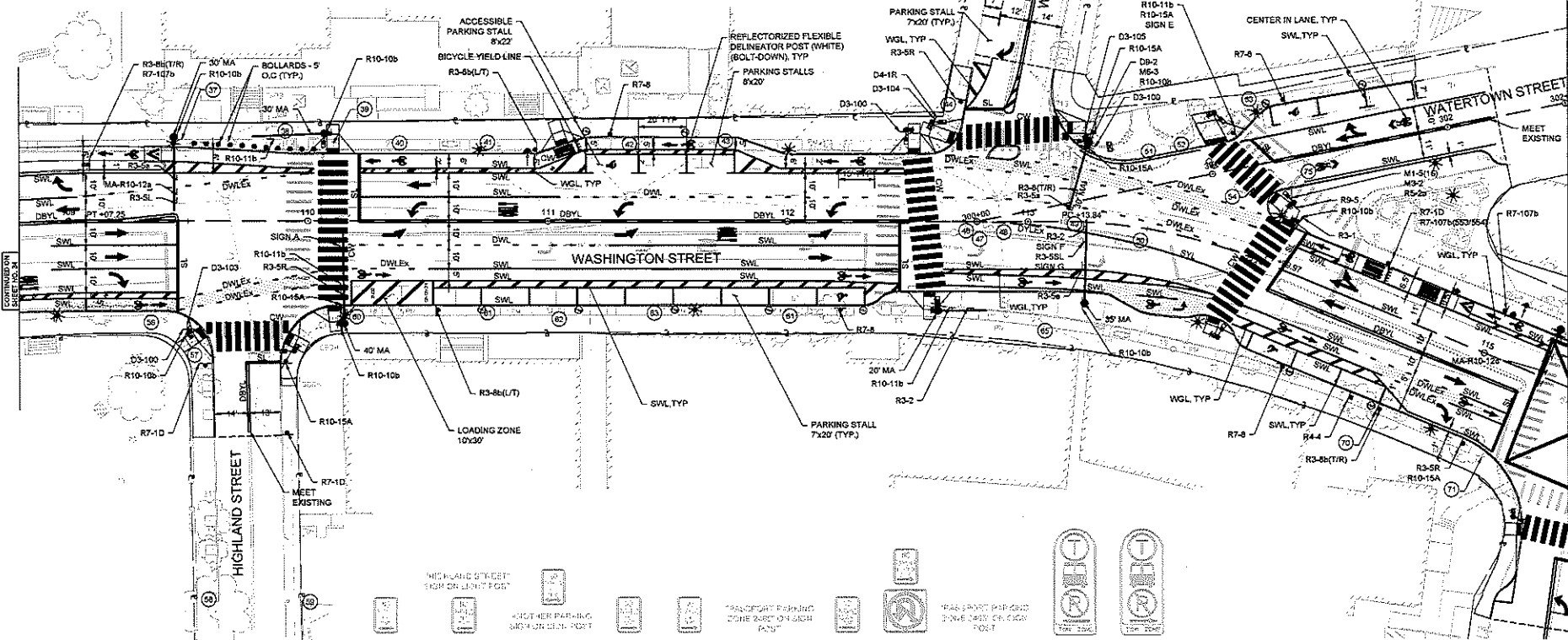
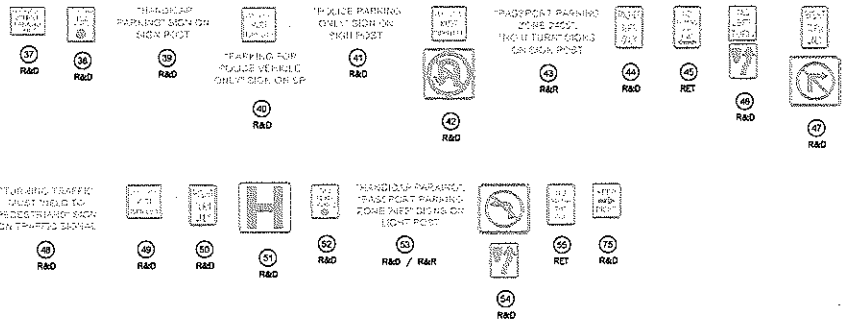
CITY OF NEWTON
MASSACHUSETTS
DEPARTMENT OF PUBLIC WORKS
FOR THE RECONSTRUCTION OF
WEST NEWTON SQUARE
TRAFFIC SIGN AND PAVEMENT MARKING PLAN
#103-18
SCALE: AS NOTED DATE: 1/16/19 SHEET 35 OF 73

PLOTTED ON January 18, 2019 1:10 PM

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CITY OF NEWTON
MASSACHUSETTS

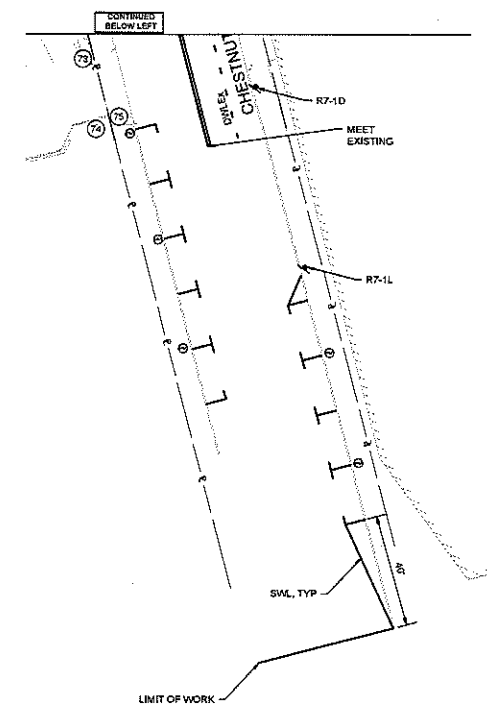
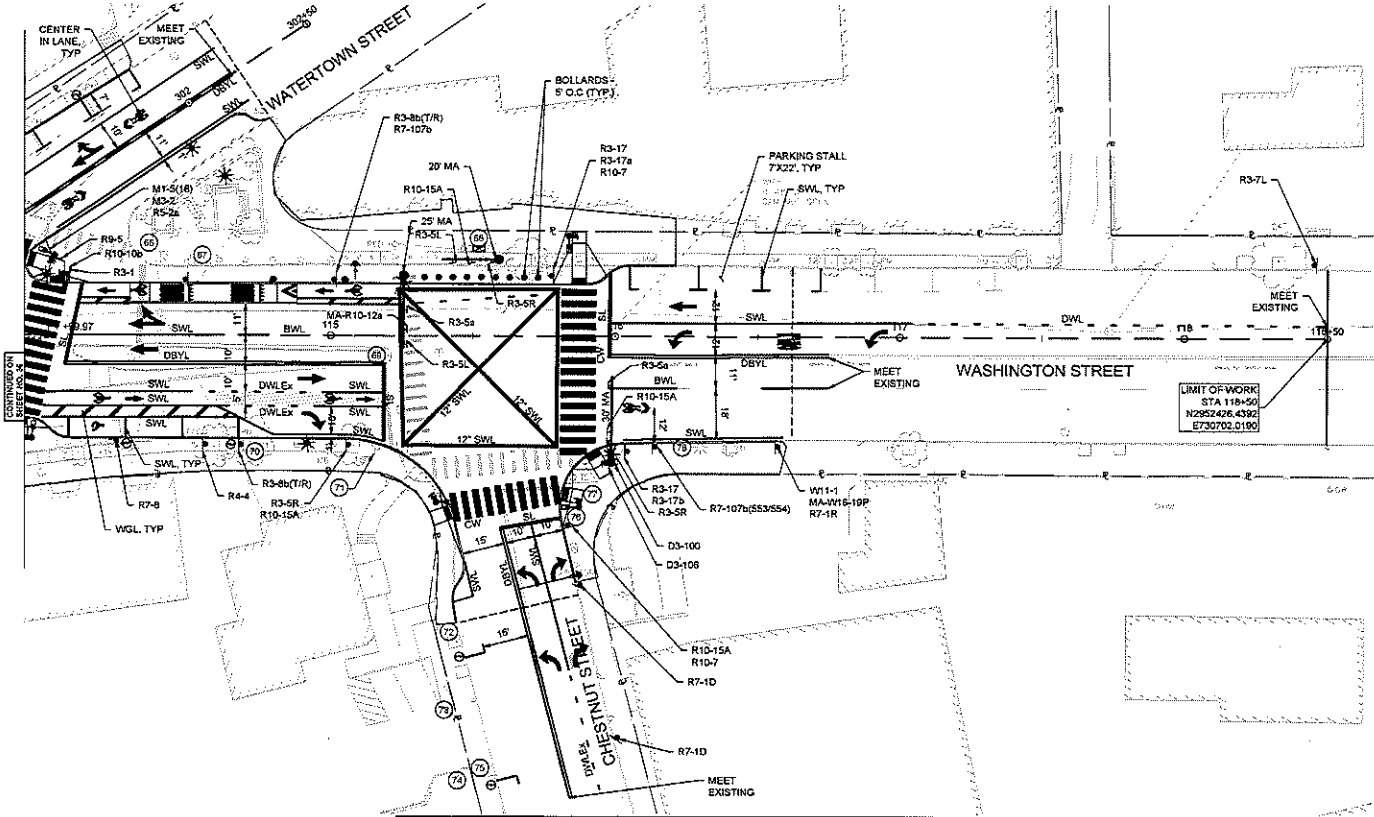
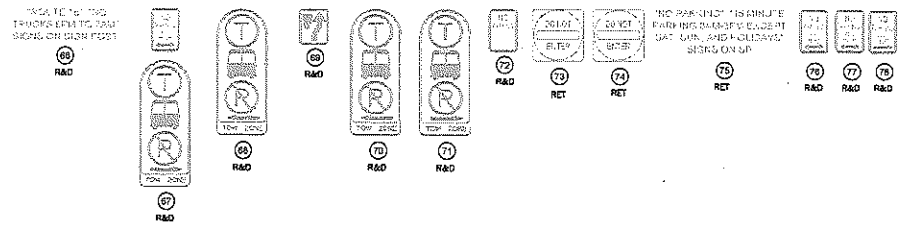
DESIGNED BY: ROP
DRAWN BY: ASL
CHECKED BY: RY
APPROVED BY: BDK



- NOTES:
1. FOR CONSTRUCTION PLAN, SEE SHEET 13
 2. FOR CURB TIE & ALIGNMENT PLAN, SEE SHEET 19
 3. FOR GRADING PLAN, SEE SHEET 23
 4. FOR PEDESTRIAN RAMP DETAILS, SEE SHEETS 25-28
 5. FOR DRIVEWAY DETAILS, SEE SHEET 29
 6. FOR UTILITY DETAILS, SEE SHEETS 31-32
 7. FOR LIGHTING PLANS, SEE SHEET 50
 8. FOR LANDSCAPE MATERIALS PLANS, SEE SHEET 57

CITY OF NEWTON
MASSACHUSETTS
DEPARTMENT OF PUBLIC WORKS
FOR THE RECONSTRUCTION OF
WEST NEWTON SQUARE
TRAFFIC SIGN AND PAVEMENT MARKING PLAN
SCALE: AS NOTED DATE: 1/16/19 SHEET 38 OF 73

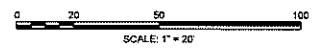
#10318



CITY OF NEWTON
MASSACHUSETTS
PRINTED ON January 15, 2015 1:10 PM

CITY OF NEWTON
MASSACHUSETTS

DESIGNED BY: RCP
DRAWN BY: AST
CHECKED BY: RCP
APPROVED BY: ROK



- NOTES:
1. FOR CONSTRUCTION PLAN, SEE SHEET 14
 2. FOR CURB TIE & ALIGNMENT PLAN, SEE SHEET 20
 3. FOR GRADING PLAN, SEE SHEET 24
 4. FOR PEDESTRIAN RAMP DETAILS, SEE SHEET 26
 5. FOR DRIVEWAY DETAILS, SEE SHEET 29
 6. FOR UTILITY DETAILS, SEE SHEET 32
 7. FOR LIGHTING PLANS, SEE SHEET 51
 8. FOR LANDSCAPE MATERIALS PLANS, SEE SHEET 57

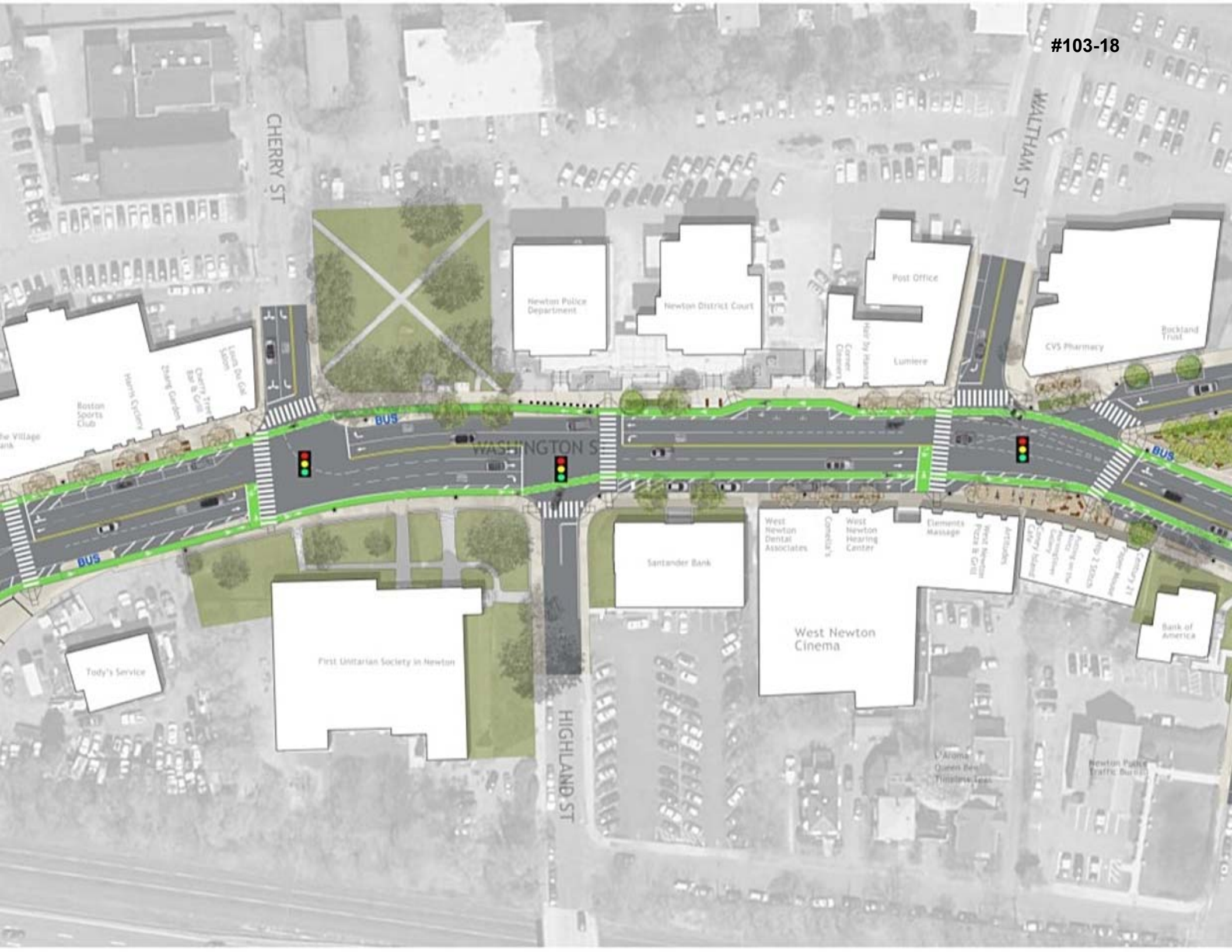
CITY OF NEWTON
MASSACHUSETTS
DEPARTMENT OF PUBLIC WORKS
FOR THE RECONSTRUCTION OF

WEST NEWTON SQUARE

TRAFFIC SIGN AND PAVEMENT MARKING PLAN

#10318

SCALE: AS NOTED DATE: 1/16/19 SHEET 37 OF 73



CHERRY ST

WALTHAM ST

Newton Police Department

Newton District Court

Post Office

CVS Pharmacy

Buckland Trust

WASHINGTON ST

Santander Bank

West Newton Cinema

First Unitarian Society in Newton

HIGHLAND ST

Today's Service

Bank of America

Varoma Queen Bee
Tinslow's

Newton Public Traffic Bus

BUS

BUS

BUS