



Public Facilities Committee Report

City of Newton In City Council

Wednesday, February 17, 2016

Present: Councilors Crossley (Chair), Lennon, Albright, Brousal-Glaser, Danberg, Laredo and Lappin

Absent: Councilor Gentile

Also present: Councilor Fuller

City staff present: John Daghlian (Associate City Engineer), James McGonagle (Commissioner of Public Works), Shane Mark (Director of Operations; Department of Public Works), and Joshua Morse (Commissioner of Public Buildings)

#38-16 National Grid GOL petition for Eastside Parkway

NATIONAL GRID petitioning for a grant of location to install and maintain 70' ± of 6" gas main in East Side Parkway from the existing 6" gas main at 82 East Side Parkway to 76-78 East Side Parkway. (Ward 2) [01/20/16 @ 6:43 PM]

Action: Public Facilities Approved 6-0 (Lennon not voting)

Note: Dennis Regan, National Grid Permit Representative, presented the petition to install 70' of gas main in East Side Parkway to provide gas service to 76-78 East Side Parkway at the request of the property owner. The project will take approximately two days to complete. The Department of Public Works has reviewed the petition and recommended approval with the standard street opening permit conditions. The public hearing was opened and no one spoke for or against the petition. Councilor Albright moved approval, which carried by a vote of six in favor and none opposed.

#57-16 Verizon petition for a Grant of Location in Saw Mill Brook Parkway

VERIZON NEW ENGLAND INC. & EVERSOURCE petitioning for a grant of location to install and maintain a new stub pole and anchor in Sawmill Brook Parkway at Fredette Road in front of 552 Saw Mill Brook Parkway. (Ward 8) [01/25/16 @ 4:16 PM]

Action: Public Facilities Approved 6-0 (Lennon not voting)

Note: Penny Lane, Verizon Representative, presented the petition to install a stub pole and anchor in front of 552 Saw Mill Brook Parkway. The city's tree warden is requesting the installation in order to remove a dead tree with a tree guy attached that supports a pole located on the opposite side of Saw Mill Brook Parkway. The new stub pole and anchor would be the support for that pole.

The Department of Public Works has reviewed the petition and recommends approval. The public hearing was opened and no one spoke in favor of or against the petition. Ald. Lappin moved approval, which carried unanimously.

#187-15(2) National Grid petition to revise grant of location for Centre Street

NATIONAL GRID petitioning to revise a grant of location for Centre Street approved by the Board of Aldermen on September 21, 2015 by installing 38' ± of 12" gas main in Centre Street near the intersection of Franklin Street easterly to the proposed 12" gas main at 334 Centre Street, installing 417' ± of 12" gas main southerly to the proposed 12" gas main at Centre Street and Buswell Park, and installing 29' ± of 12" gas main westerly to the previously approved 12" gas main in Centre Street near Bennington Street. (Ward 1) [02/02/2016 @ 9:51 AM]

Action: Public Facilities Approved 6-0 (Lennon not voting)

Note: National Grid Permit Representative Dennis Regain presented the petition to amend a grant of location for Centre Street previously approved by the Board of Aldermen on September 21, 2015. The original petition was to install a total of 3,660' of new gas main in Richardson Road continuing onto Centre Street to the intersection of Cabot Street. When National Grid was installing the gas main on Centre Street, they ran into underground utility infrastructure that could not be moved; therefore, they are requesting an amendment to allow a portion of the gas main to be installed on the other side of the street. This portion of the project would take approximately a week to ten days to complete and would be started in the spring.

The Department of Public Works has reviewed the petition to amend the grant of location and recommended that the street opening conditions in the original petition (memo attached) remain in place for the amended portion of the petition. The original memo states that the gas main trenches related to the project shall go through a complete winter to allow for settlement and during the following spring the roadway shall be milled 2" and paved from curb line to curb line for the entire length of the project. During the discussion on the proposed amendment, it was misstated that National Grid would not be required to mill and pave from curb line to curb line.

There was some concern that Centre Street was closed and traffic detoured as part of the project. It was pointed out that Nation Grid has no control over whether a portion of the street is closed during a project, as it is the Newton Police that make the determination to close a street and detour the traffic.

The public hearing was opened and no one spoke for or against the project. Ald. Danberg moved approval of the petition, which carried unanimously.

Referred to Public Facilities and Finance Committees**#67-16 Transfer within the Utilities Division to repair a section of drain on Adams St**

HIS HONOR THE MAYOR requesting authorization to transfer the sum of ninety four thousand five hundred dollars (\$94,500) from the Storm Water Management Cleaning-Catch Basins Account and thirty seven thousand seven hundred sixty dollars (\$37,760) from the Storm Water Management Consultants Account to a Storm Water Fund Capital Outlay Account for the purpose of repairing a section of storm drain in Adams Street.

Action: Public Facilities Approved 6-0 (Lennon not voting)

Note: Commissioner of Public Works Jim McGonagle presented the request to transfer a total of \$132,260 from two accounts in the storm water budget to a capital account to repair a 590' section of storm drain in Adams Street between Jones Court and Potter Street. The drain is collapsed and located at a depth of 12' making it expensive to repair. The Department is repaving Adams Street during the next construction season and would like to repair the drain before that occurs.

The Commissioner is including the Adam Street drain repair as an additional project in the contract for the Dedham Street drainage improvement project. The same contractor would handle both projects. There would be no impact on the schedule for the Dedham Street project, as the Adams street work would be done before the end of the school year and Dedham Street cannot begin until the Countryside School breaks for the summer.

There was some concern that \$94,500 was being transferred from the catch basin cleaning account. The Committee members wanted assurance that all planned catch basin cleaning would be accomplished without the funds to be transferred. The Commissioner responded that the requested funds are surplus. The catch basin cleaning is ahead of schedule and enough funding would remain in both accounts to address all planned work. With that Ald. Danberg moved approval, which carried unanimously.

REFERRED TO PUBLIC FACILITIES AND FINANCE COMMITTEE

#68-16 Transfer from budget reserve to DPW for snow removal

HIS HONOR THE MAYOR, requesting authorization to transfer the sum of one million dollars (\$1,000,000) from Budget Reserve – Snow and Ice Removal Account to the following accounts:

Personnel Costs – Overtime

(0140110-513001).....\$ 300,000

Rental Vehicles

(0140110-5273-5273)\$700,000

[02/10/16 @ 10:26 AM]

Action: Public Facilities Approved 6-0 (Lennon not voting)

Note: Commissioner McGonagle explained that the request for \$1 million from Budget Reserve is necessary to replenish the department's snow budget. There have been six snow events in the city that have resulted in a total of 23" of snow that needed to be cleared. With the most recent snow clearing efforts, the Department will have expended close to \$2.4 million. The Department started with \$1 million in its budget and has received \$1 million from budget reserve for snow and ice removal up to this point. The Public Works Department will use \$400,000 to address outstanding invoices from the last storm and the remaining \$600,000 would be used to fund future snow and ice removal. The attached memo provides the Fiscal Year 2016 snow costs breakdown and other details related to snow removal operations.

It was pointed out that during the last snow fall the side streets were a little icy in the morning, which could have been a safety issue if it was not school vacation week. Commissioner McGonagle responded that the Public Works Department would have taken a more aggressive approach to clearing if it was not school vacation week. In addition, the weather reports all predicted that the temperatures would rise significantly and the snow would change to rain well before the morning. With that, a motion to approve the request was made and approved unanimously.

#189-14 Update on the Zervas School construction project

PUBLIC FACILITIES COMMITTEE requesting periodic updates on the Zervas Elementary School Project. [04/17/14 @ 10:48 PM]

Action: Public Facilities Held 7-0

Note: Commissioner of Public Buildings Josh Morse began the discussion by focusing on what lessons were learned while building the Angier Elementary School that could be applied to ongoing and future school projects. Although the Angier Project came in on time and under budget the Public buildings Department learned several lessons related to efficient building practices. As all of the elementary school projects are on an accelerated schedule, there is float time built into the construction schedule. During the Angier construction, it became apparent that the City needed to treat the float time as theirs and not the construction manager and have the contractor make up any missed time within two weeks of the missed time. It is important to have a significant amount of float time at the end of a project. There are some time and money saving practices that can be applied to exterior and interior building finishes by simplifying some of the finish details. In addition, custom millwork can take a long time to fabricate and install and for future projects the City's project manager should meet with the millwork foreman and the fabricator at the start of the process. The Angier Project is a success and people are very happy with the project. Over communication with the community was key to this success. The City Councilors representing Ward Five and the Waban Area Councilors were very helpful with communication. Commissioner Morse expects to continue the same level of communication with the Zervas Elementary School Project neighbors and to utilize the same tools to communicate.

Commissioner Morse added that there are large metal panels missing from the exterior of Angier School. The metal supplier informed the metal panel installer that there was a six week delay for the panels; however the installer failed to inform the construction manager or the City in a timely way. The City met with all involved to determine what can be done to accelerate the process. The City will not be working with the metal panel installer on any other projects and the metal installer is being held responsible for all costs associated with the delay in receiving the panels. The owner's project manager is also partially responsible for the problem and has accepted responsibility.

The City is using the same construction management company for the Zervas project but required a change in a critical position, to assure more timely communications. Commissioner Morse is comfortable with everyone else involved in the project going forward.

The Zervas Project is ahead of schedule. The site abatement is complete. Although there was day lost on the demolition schedule, the contractor worked on a Saturday to make up the lost time and the demolition of the school and houses is now complete. The Public buildings staff is continuing regular communications with the abutters and has gone door to door to introduce themselves and provide contact information. There will be monthly community meetings at the Waban Library prior to the Waban Area Council meetings to keep the neighbors up to date on the project.

The Design Review Committee has examined the early site packages for steel and foundations, which were approved. The more intricate metal work is not included as part of the steel work, as it allows the front end work to be accelerated. The metal work will become part of the miscellaneous metal line item in the budget for the project.

The administration is working towards the final guaranteed maximum price with the construction manager. The sub-trade bids came in under budget for the project. The construction manager handles all the non-trade bids but the City needs to be sure that there are multiple bidders to ensure the best price.

The traffic consultant's recommendations for the area around the school are being reviewed by the City's ADA Coordinator and the Department of Public Works. Commissioner Morse expects that the traffic improvements will follow the same process as the Angier School improvements. A decision on the final traffic solution should be made and available for review by the community and Council by late spring. Commissioner Morse added that the Public Buildings Department will manage the traffic improvement project.

There was no additional information to report and Councilor Albright moved hold for future updates. The motion carried by a vote of seven in favor and none opposed.

#188-14 Update on the Cabot School construction project

PUBLIC FACILITIES COMMITTEE requesting periodic updates on the Cabot Elementary School Project. [04/17/14 @ 10:48 PM]

Action: Public Facilities Held 7-0

Note: There is a Committee of the Whole of the City Council scheduled for February 22, 2016 to discuss the possible acquisition 23 Parkview Avenue, which abuts the school property in the rear of the school. The acquisition would give the City better design options for the Cabot School construction project. The Cabot School site is a very tight site and additional space might allow for better site circulation, relocation of hardscape, and/or additional parking.

The Public Buildings Department is in the process of planning many communication meetings with the community to get their input on the proposed new school. There is an upcoming community meeting scheduled for March 2, 2016. The administration is hoping to begin the site plan approval process in April 2016 but before that process can begin, there needs to be some solutions related to traffic and site circulation. The administration also needs to continue discussions with the Parks and

Recreation Commission regarding the project. In order to meet the construction schedule for the Cabot School site plan and schematic design approval needs to be complete by the end of May 2016.

As the project progresses, Commissioner Morse will keep the Committee and Council informed. With that, Councilor Albright moved hold, which carried unanimously.

Referred to Programs & Services and Public Facilities Committees

#27-16 Updates from the Administration on the renovations at the Aquinas site

PROGRAMS & SERVICES AND PUBLIC FACILITIES COMMITTEES requesting that the School Department and/or Executive Department provide updates on removal of asbestos and other toxic materials that were identified at the Aquinas site, the scope and timing of window replacement in particular, and renovations that may be necessary to facilitate short and long-term plans for uses and operations at the site. [01/10/16 @ 1:14 PM]

Action: Public Facilities Held 7-0

Note: Commissioner Morse provided an update on the new windows for the Aquinas site. Members of the Design Review Committee (DRC) walked the Aquinas site before reviewing and approving the proposed window project for the building. The DRC members also looked at the building from a thermal standpoint to be sure that the new window sizes and locations would make sense relative to future renovations. The bids for the toxic remediation and the window replacements will be opened next week. Commissioner Morse explained that the doors are not being replaced as part of the project as the entrance to the building may change in the near future. The convent windows are not being replaced, as the programming for the space has not yet been determined.

Although the window caulking had very high levels of PCBs, the caulking was relatively intact and still pliable; therefore, the PCB testing on the soil in the proximity of the windows showed very low, non-reportable levels of PCBs and the testing on the brick surrounding the windows had low manageable levels of PCB. The City submitted the test results and work plan to the State. The remediation work and demolition of the windows is expected to take place this winter into the spring and the windows installed in the summer. Minor life safety, ADA improvements and bathroom renovations will also take place before the pre-school program begins.

In Fiscal Year 2017, the Capital Improvement Plan includes \$1 million for a feasibility study at the site. The City has submitted its Statement of Interest to the Massachusetts School Building Authority (MSBA) for the site and expects to hear from the MSBA in the next couple of months. Commissioner Morse informed the Committee that the Administration has heard that the MSBA is opening up to funding pre-school programs, as long as they are not independent facilities.

Commissioner Morse will join the Committee in the near future to provide another update on this project. Councilor Albright moved hold, which carried unanimously.

Referred to Finance and Appropriate Committees

#288-15 **Submittal by the Mayor of the FY17 Capital Improvement Plan**
HIS HONOR THE MAYOR submitting the FY 2017-FY 2021 Capital Improvement Plan pursuant to section 5-3 of the Newton City Charter. [10/01/15 @ 1:53 PM]

Action: **Public Facilities Held 7-0**

Note: Commissioner of Public Building Josh Morse provided the Committee with updates on the below ongoing Capital Improvement Plan (CIP) projects and reviewed the upcoming capital projects. The item was held for further discussion during budget discussions.

Ongoing CIP Projects**Fire Station 10 (Dedham St)**

Fire Station 10 is complete and came in on time and well under budget. The majority of the change orders for the project were in the City's favor. The project went well but there were a couple of lessons learned related to using radiant ceiling panels to save space in small rooms in the fire station. The material cost for the ceiling panels are more than baseboard heating material costs but that is offset by reduced labor costs. Overall, the project was a great success.

Fire Station 3 and Headquarters (Willow St)

The early site packages for steel and foundation were reviewed by the Design Review Committee and have gone out to bid. The construction documents for the project are at 60% and the Public Buildings Department is working with the architect to finalize the plans in order to go out to bid and determine the guaranteed maximum price for the project. In addition, the City has reached a final agreement with the Massachusetts Water Resources Authority for the use of their land in order to provide the station with egress to Centre Street.

The temporary station will be erected in April and the firefighters will move into it in late spring. The temporary station will exit onto Centre Street in the planned location for the new fire station driveway. The Fire Department Headquarters will be moved to the Aquinas site in the next few weeks.

Manet Road Building

The project is well underway. The building has been designed, the bid awarded, and the pre-fabricated building ordered. The site work for the project will begin in April and the project should be complete in the fall. The Public Buildings Department will be going door to door to notify the neighbors of the project schedule.

Jackson Homestead

The accessibility and archives project at the Jackson Homestead should be wrapping up in the next couple of months. It was a difficult renovation in part because the museum is occupied with regular visitors. There were a number of issues with the project due to the age of the buildings. The structural integrity of the archives wing required nearly every stud and beam had to be replaced or reinforced. The interior work will be done by the end of March and the exterior work will be complete by the end of April.

City Hall Accessibility

The project is almost complete. All of the interior and exterior ramps and railings have been installed. All of the finishes and the new bathrooms are done. A vertical lift to the War Memorial Stage is installed. The only piece of the project remaining is installing the elevator. The elevator is expected to be delivered during the week and should be installed and useable by March 12, 2016. The elevator order was delayed because the as-built plans show a structural beam in one place when it is actually 12" from that spot. The elevator shaft was designed based on the as-built plans, which meant the shaft had to be adjusted by a foot. All elevators are laser measured before they are custom built; therefore, the elevator manufacturer could not begin the elevator until the shaft adjustment was made.

Customer Service Area

The Public Buildings Department is finalizing the design. A new door has been added to connect the customer service area to the Customer Service Manager's Office and a small meeting space. The plan is to move all of customer service to the left side of the rotunda.

Police Annex

The critical work to the building envelope to stop water infiltration is complete. The design for the new heating and cooling system, which will hang from the ceiling structure, has also been completed and is to be installed during the last week of February. Commissioner Morse will be meeting with the Chief of Police Dave MacDonald to discuss his vision for the Police Annex to ensure that the plans for the rest of the work align with the Chief's vision. The project will be ongoing over the spring and summer.

Upcoming CIP Projects

Crescent Street

Commissioner Morse feels that this project is an opportunity for the City to create affordable housing and improve a park through a collaborative effort between the Parks and Recreation

Department, Planning Department and the Public Buildings Department. The Public Buildings Department will manage the housing portion of the project. The Community Preservation Committee has invited Commissioner Morse to submit an environmental study and a site work proposal. The project is scheduled to go before the Community Preservation Committee again in March for funding for the first phase of the environmental study, a geo tech report, site survey and engineering work.

Commissioner Morse will be doing significant community outreach to help shape the project. There is a master plan for the park that was done by Weston and Sampson but there are no preliminary plans for the housing as the City needs the geo tech plans before siting the housing. The Commissioner expects that if the Community Preservation Committee approves the project funding the design for the project will be developed by the fall. Deputy Commissioner Alex Valcarce will assist with project management during the design phase of the project. The Commissioner has not determined who will manage the construction phase.

When the Crescent Street Project moves forward to the design and construction phases, the Public Buildings Department will use the Designer Selection Committee process to select the designer for the project and the City will follow Massachusetts General Law Chapter 149 to publically bid the project.

Main Library Interior and HVAC

The Council has approved \$250,000 in the Fiscal Year 2016 CIP to renovate the bathrooms, address accessibility issues, and replace HVAC mechanicals in the main library. The Fiscal Year 2017 CIP includes \$500,000 in funding to continue with improvements such as additional data drops, additional work stations, and flooring work. These enhancements will improve operations at the library by improving efficiency.

The Library Director would like to do a larger renovation and expansion project in the near future; therefore, the Commissioner does not intend to put time and money into anything in the library that may change due to a larger renovation.

Newton South High School Air Handler Units

The current air handler units are past the end of their useful life and the plan is to replace them with high efficiency units that provide heating and cooling.

Ed Center Stair Rehabilitation

The Ed Center stairs have been repaired multiple times over the years. At this point, the stairs need to be torn out and replaced. An on-call architect will be used to design code compliant stairs. The project is expected to cost \$150,000.

City Hall Mechanicals

Many of the window air conditioning units used in City Hall are past their useful life and need to be replaced. Commissioner Morse is looking at replacing the window units with the more reliable and efficient mini split ductless units. He will also be looking at providing air conditioning in the War Memorial. The Chair added that there should be a discussion about air conditioning the City Council Chamber if the War Memorial is going to be air conditioned. She also pointed out that during last fall's discussion about adding heat tape to the building, there was discussion about procuring a professional assessment of the building envelope before moving forward with replacing heating and cooling mechanicals. It may be possible to get CPA funds to fund the assessment.

Austin Street

The Public Buildings Department will be providing project oversight during the design and construction phases of this project including coordinating utility undergrounding work, as the staff in the department has a great deal of experience with project management and meeting project challenges.

#133-15 Authorization to negotiate leases for install of solar panels on city properties
HIS HONOR THE MAYOR requesting authorization to enter into negotiations for the potential lease on city properties for purposes of third-party construction, ownership, and operation of on-site renewable solar energy generation from which the City will purchase electric output and/or net metering credits. [05/11/15 @ 5:00 PM]
ITEM SPLIT INTO PART A AND PART B
PART A – APPROVED on 11/16/15
PART B – *Solar panels mounted on new carport structures at Newton South High School and solar panels mounted on new carport structures at the Library.* HELD on 011/04/15

Action: **Public Facilities Held 7-0**

Note: Public Buildings Commissioner Josh Morse provided the attached PowerPoint presentation on solar canopies covering parking lots at both Newton South High School and the Library. The canopies are 13' high and would be below the tree line, which would make them camouflaged from abutting residences. The canopies would also provide shade and cover from the elements for vehicles at the library and the school. There is also LED lighting under the canopies, which would enhance public safety after nightfall. The canopies are a steel structure that can be finished in a variety of durable (baked on enamel) colors.

It may be necessary to remove some trees located on concrete islands in the library parking lot to install the canopies. The trees are unhealthy but the Tree Warden will look at them to determine if they could be transplanted. There was a suggestion that it may be possible to address some of the storm water runoff issues in the Library parking lot through this project. The Commissioner stated that the Administration is looking at different options.

A few members of the Committee still had concerns regarding the aesthetics of the canopies at the library. Commissioner Morse stated that the Director of the Library and Library Board of Trustees are in favor of the installation. There was a request that the Library Director and representatives of the Board of Trustees attend the next Public Facilities Committee meeting to voice their support. With that the item was held for further discussion.

Respectfully submitted,
Deborah J. Crossley, Chair

CITY OF NEWTON
Department of Public Works
ENGINEERING DIVISION

MEMORANDUM

To: Ald. Deborah Crossley, Facilities Committee Chair.

From: John Daghlian, Associate City Engineer

Re: Gas Main Installation on Centre St (Richardson St to Cabot Street)

Date: July 9, 2015

CC: Shane Mark, Acting Commissioner DPW
Lou Taverna, PE City Engineer
Shawna Sullivan, Associate City Clerk

In reference to the above location, the following are my comments for a plan entitled:

*City of Newton Permit Plan Proposed Opening to Install Gas Main
&
Regulating Station Richardson Street & Centre Street
Prepared by: National Grid
Dated: 3/17/15*

Executive Summary:

It is unclear from the plans if the existing 10" gas main is to be kept in service or removed as part of the proposed new 12" plastic gas main installation. What is the integrity of the existing 10" gas main, specifically in terms of [gas leaks, joint repair and overall condition] of the pipe. If the 10" pipe is to be de-commissioned then it must be completely taken out of the roadway and properly backfilled to City Standards. If the 10" pipe is to remain, will there be any cross connections between the 10" and proposed 12" main? Is the purpose of the 12" main to provide service to one customer, or will it be available and utilized to reinforce capacity and or future demand for this portion of the City?

Due to the heavy volume of vehicular traffic on Centre Street the trenches shall be paved temporarily paved on a weekly basis, and specifically before any rain event, with no

exception. National Grid shall conduct a preconstruction meeting with the Newton Police, Fire and Public Works Departments prior to any construction activity. National Grid and its contractor shall provide and submit a traffic management plan two weeks prior to the preconstruction meeting to the City Engineer, Traffic Engineer, and Police Chief.

No work will be allowed during the winter months due to the volume of traffic and natural grade of Centre Street. Any steel plates utilized on a temporary basis (during the construction phase of this construction season) shall be recessed, pinned and have temporary asphalt placed around the perimeter of the plates and have sufficient flashing barrels and safety cones. Prior to the end of this construction season, National Grid shall coordinate an inspection with DPW of the entire alignment and temporary pave the work zone that may have experienced any settlement. The new pipe's trenches shall go through a complete winter cycle to allow for settlement; and the following spring the trench and the entire roadway shall be milled (1-1/2 to 2") thick from curb line to curb line for the entire length of the new pipeline and repaved with Type I-1 HMA bituminous concrete. Any sidewalks, curbing, pedestrian curb cuts (a.k.a. ramps) damaged shall be restored to current City Standards.

Upon final completion an As-Built plan in digital and hard format shall be submitted to the City Engineer.

Conditions & Special Provisions:

1. Finalized utility connection plan reflecting the above changes that meets the minimal design standards of the City of Newton must be submitted for approval by the contractor of record with appropriate Bonds & Insurance. The Engineering Division makes no representations and assumes no responsibility for the design(s) in terms of suitability for the particular site conditions or of the functionality or performance of any items constructed in accordance with the design(s). The City of Newton assumes no liabilities for design assumption, error or omissions by the Engineer of Record.
2. If any service connections are disturbed by the contractor of record during construction, they shall be updated and replaced to the City's current Construction Standards.
3. All downstream catch basins shall be retrofitted with an approved type of siltation control devices, details of this shall be submitted to the City Engineer. The contractor of record shall maintain these catch basins throughout the construction process, and ensure that street and property flooding does not occur during construction.

4. The contractor of record shall contact the Newton Police Department and arrange for Police Detail to help residents navigate around the construction equipment and since the street has underground nature gas main, the Police Officer can contact emergency response personnel.
5. The applicant's contractor shall apply for a Street Permit with the DPW prior to any construction.
6. Be advised that portions of Centre Street has Massachusetts Water Authority (MWRA) transmission line National Grid shall verify with the MWRA for any conflict between the proposed gas main and existing Authority facilities.
7. The contractor of record shall obtain appropriate Permits with the Inspectional Services Department for all electrical, telecommunications construction, gas works when applicable.

If you have any questions or concerns please call me at 617-796-1023.

City of Newton



Setti D. Warren
Mayor

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

RECEIVED
NEWTON CIVIL ENGINEERING
2016 FEB 17 PM 3:25
DAVID A. OLSON, CIVIL
ENGINEER
NEWTON, MA 02459

To: The Honorable City Council
From: Jim McGonagle, Commissioner
Subject: Snow Update
Date: February 16, 2016

To the Honorable City Council,

As of February 12th, 2016 the City of Newton has expended \$2,379,456 on snow operations in fiscal year 2016 with a total of 22.7 inches of snow accumulating. Of these costs, \$984,995 has been paid to various contractors for snow plowing, hauling, and cleanup for three winter storms, and the clearing of sidewalks and schools for five winter storms. The City has paid \$608,221 in personnel costs for the entire winter season, and \$496,564 to keep the salt sheds filled throughout seven salting events throughout the season. Additionally, \$289,676 has been spent on equipment costs such as vehicle rentals, vehicle maintenance, and the use of GPS units.

FY 2016 Snow Costs Breakdown	
Equipment Expenses	\$ 289,676
Total Contracted Costs	\$ 984,995
Total Personnel Costs	\$ 608,221
Total Salt Costs	\$ 496,564
Total Snow Costs	\$ 2,379,456

Sincerely,

James McGonagle
Commissioner of DPW

Jim McGonagle
Commissioner



Solar Car Canopies on City Properties

Presentation by the Department of
Public Buildings
March, 2016

Phase 2 Solar Projects

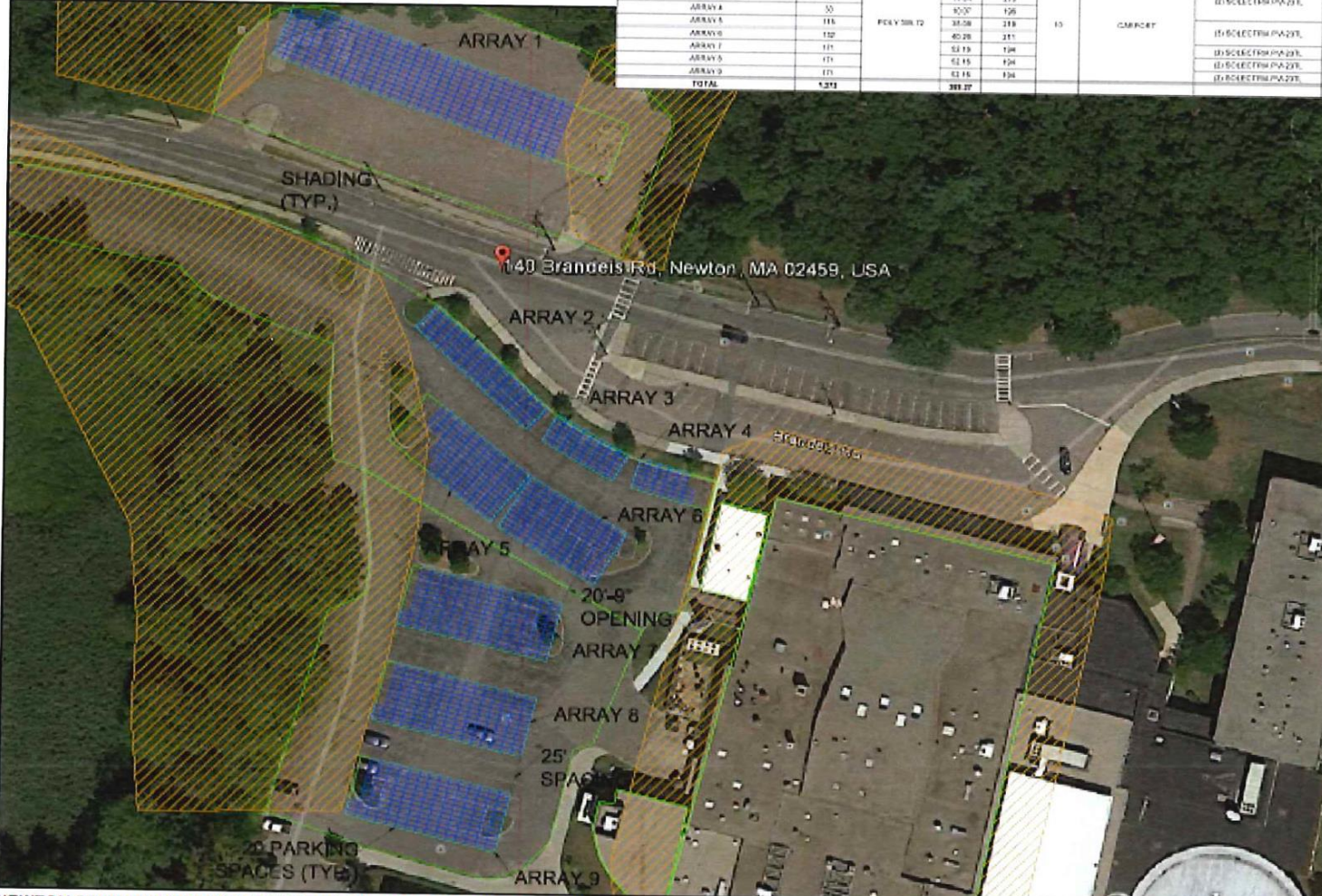
	<u>LOCATION</u>	<u>PROJECT DESCRIPTION</u>
1	Dept of Public Buildings: 52 Elliot Street, 02461	roof mounted
2	DPW: 60 Elliot Street, 02461	roof mounted and car ports
3	DPW: 70 Elliot Street, 02461	roof mounted and car ports
4	Newton South High School: 140 Brandeis Rd, 02549	roof mounted and car ports
5	Library Parking lot : 330 Homer St, 02459	car ports
6	Angier School: 1697 Beacon St., 02468	roof mounted
7	Oak Hill School: 130 Wheeler Rd, 02459	roof mounted
8	Lower Falls Com. Center : 545 Grove St, 02453	roof mounted
9	Bowen School: 280 Cypress St., 02459	roof mounted
10	Fire Station 10 and wires Building: 755 Dedham St., 02459	roof mounted
11	Zervas School (new construction): 30 Beethoven Avenue, 02469	car ports and roof mounted
12	Landfill: Rumford Ave, 02466	ground mounted

Newton South High School Canopy

NOTES:

- SHADING PATTERN IS CALCULATED BASED ON FEBRUARY 21ST FROM 6AM TO 3PM AND DECEMBER 21ST AT NOONTIME. IT TAKES INTO ACCOUNT SITE LATITUDE AND LONGITUDE.
- SHADING FOR OBJECTS NOT IMPACTING THE PV SYSTEM IS NOT SHOWN

ARRAY		POWER TABLE									
NEWTON SOUTH HIGH SCHOOL	# OF MODULES	MODULE TYPE	HAZETO	ABSOLUTE	PITCH	HEIGHT	TYPE	TYPE	INVERTER	EFFICIENCY	MW AC
ARRAY 1	542	POLY SIL TO	104.31	221	15	CAMPOBT		ID-SELECTRA PV-27L	600V		84.39
ARRAY 2	90		21.45	223							45.39
ARRAY 3	45		14.54	213							45.39
ARRAY 4	33		9.07	126							45.39
ARRAY 5	181		35.58	213							45.39
ARRAY 6	122		40.28	211							45.39
ARRAY 7	121		42.19	124							45.39
ARRAY 8	171		42.15	124							45.39
ARRAY 9	171		42.15	124							45.39
TOTAL	1,311	388.27									317.98



NEWTON SOUTH HIGH SCHOOL PARKING LOT - OVERALL ARRAY LAYOUT
SCALE: 1" = 30'-0"

NOT FOR CONSTRUCTION

SCALE: 1" = 30'-0"
DATE: 10/28/13
DRAWN: JTA
REVISIONS:

NEWTON SOUTH HIGH SCHOOL
140 BRANDEIS RD.
NEWTON, MA 02459
SOLAR PV ARRAY LOCATION
388.27 MW DC STC PV ARRAY INSTALLATION
PHOTOVOLTAIC ARRAY LAYOUT

AMERESCO
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Renderings: Car Canopies at South HS



South High School



Main Library Canopies



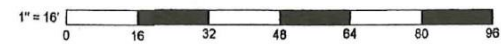
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ARRAY 1

SHADING
(TYP.)

ARRAY 2

MAIN LIBRARY - OVERALL ARRAY LAYOUT
SCALE: 1" = 16' 0"



Main Library Canopy



Main Library Canopy



Solar Canopy Design Features

- L-shaped design catches snow and ice
- 13'6" canopy clearance does not interfere with snow plowing
- LED lights under canopy light up parking area for safety



Current Design Status

Rooftop Solar PV Arrays	Number of Panels	Square Footage of Panels	Capacity (kW DC)	System Production (kWh in year 1)
Newton South High School	237	4,900	75.84	93,600
Angier Elementary School	144	2,977	46.08	56,800
Oak Hill Middle School	424	8,766	135.68	171,000
Lower Falls Community Center	38	786	12.16	14,800
Fire Station 10	35	724	11.20	13,800
Bowen Elementary School	247	5,107	79.04	97,600
Zervas Elementary School	423	8,670	130.00	160,550
70 Elliot Street	161	3,335	50.00	61,750
Subtotal	1,709	35,265	540.00	669,900
Parking Lot Canopy Solar PV Arrays		Square Footage of Panels	Capacity (kW DC)	System Production (kWh in year 1)
Elliot Street DPW Canopy	2,304	47,635	737.28	892,500
Newton South High School	1,213	25,086	388.27	476,796
Main Library	4,144	12,939	200.26	245,919
Subtotal	7,661	85,660	1,325.81	1,615,215
Total	9,370	120,925	1,865.81	2,285,115