

Finance Committee Agenda

City of Newton In City Council

Monday, March 23, 2020

The Finance Committee will hold this meeting as a virtual meeting on Monday, March 23, 2020 at 7:00 pm. To view this meeting use this link at the above date and time: https://zoom.us/j/698611335

Items scheduled for discussion:

- **#192-20** Authorization to expend a Massachusetts Clean Energy Center grant of \$8,500 <u>HER HONOR THE MAYOR</u> requesting authorization to accept and expend an eight thousand and five hundred dollars (\$8,500) grant from the Massachusetts Clean Energy Center (MassCEC) for marketing and technical advice for a "Heat Smart" program.
- **#193-20** Authorization to expend MassDOT Workforce Transportation grant of \$250,000 <u>HER HONOR THE MAYOR</u> requesting authorization to accept and expend a two hundred and fifty thousand-dollar (\$250,000) MassDot Workforce Transportation grant for a new technology-enabled ride share shuttle for Newton's thriving Wells Avenue innovation district and the new UMass Amherst Mount Ida campus.
- **#194-20** Authorization to expend Executive Office of Elder Affairs grant of \$15,000 <u>HER HONOR THE MAYOR</u> requesting authorization to accept and expend a fifteenthousand-dollar (\$15,000) grant from the Executive Office of Elder Affairs to provide financial assistance for qualified seniors in the City of Newton to receive the services of Newton at Home Inc.

Referred to Public Facilities and Finance Committees

#198-20 Appropriate \$7,000,000 for Water Main Improvements in FY2021 <u>HER HONOR THE MAYOR</u> requesting authorization to appropriate and expend seven million dollars (\$7,000,000) and authorize a general obligation borrowing of an equal amount for the estimated design and construction costs associated with Water Main Improvements in FY2021 and authorization to apply any premium received upon the sale of the bonds or notes, less the cost of preparing, issuing, and marketing them, and any accrued interest received upon the delivery of the bonds or notes to the costs of the

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: <u>ifairley@newtonma.gov</u> or (617) 796-1253. The city's TTY/TDD direct line is: 617-796-1089. For the Telecommunications Relay Service (TRS), please dial 711.

project and to reduce the amount authorized to be borrowed for the project by like amount.

Public Facilities Approved 8-0

Referred to Land Use and Finance Committees

#165-20 Requesting CPA funding be awarded to the Newton Housing Authority

<u>COMMUNITY PRESERVATION COMMITTEE</u> requesting that one million one hundred and five thousand (\$1,105,000) in CPA funding for the support of Community Housing be awarded to the Newton Housing Authority for the acquisition of the CAN-DO Housing Portfolio.

Land Use Approved 7-0

Referred to Public Facilities and Finance Committees

#196-20 Transfer of \$60,000 for HVAC system at Police Headquarters

<u>HER HONOR THE MAYOR</u> requesting authorization to transfer the sum of sixty thousand dollars (\$60,000) from Current Year Budget Reserve to a non-lapsing Public Buildings Department account for the evaluation and recommendations for the upgrade of the Police Headquarters HVAC System.

Public Facilities Approved 8-0

Referred to Public Facilities and Finance Committees

#197-20Transfer of \$500,000 for improvements at Horace Mann at 225 Nevada Street
HER HONOR THE MAYOR requesting authorization to appropriate five hundred thousand
dollars (\$500,000) from June 30, 2019 Certified Free Cash for the purpose of providing
interior and exterior improvements at the Horace Mann School at 225 Nevada Street.
Public Facilities Approved 8-0

Referred to Programs & Services and Finance Committees

#199-20 Transfer of \$250,000 to prepared for COVID-19
 <u>HER HONOR THE MAYOR</u> requesting authorization to transfer the sum of two hundred and fifty thousand dollars (\$250,000) from June 30, 2019 Certified Free Cash to Acct #0121030-543500 Emergency Operations-Supplies account for the purpose of being prepared to act, should the need arise.
 Programs & Services Approved 8-0

Referred to Programs & Services, Public Facilities and Finance Committees

#200-20 Accept \$270,000 of lighting equipment for Winkler Stadium Field <u>HER HONOR THE MAYOR</u> requesting authorization to accept \$270,000 of lighting equipment as well as authorization to accept more funds to be expended on the installation of a field light system for the Newton South High School Winkler Stadium Field which is on Newton Parks and Recreation property. The funds are being donated by the Newton South High School Booster Club.

Finance Committee Agenda Monday, March 23, 2020 Page 3 Public Facilities Approved 6-0-1 (Councilor Kalis abstaining and Councilor Gentile

Programs & Services Approved 8-0

recused)

Referred to Public Facilities and Finance Committees

Transfer of \$650,000 for the purpose of reimbursing Newton Public Schools #201-20 HER HONOR THE MAYOR requesting authorization to transfer the sum of six hundred and fifty thousand dollars (\$650,000) from June 30, 2019 Certified Free Cash to the Newton Public Schools for the purpose of reimbursing Newton Public Schools for one-time costs associated with several projects that were necessary to accomplish the move of the Horace Mann Elementary School community to the former Carr School on Nevada Street. Public Facilities Approved 6-0-2 (Councilors Laredo and Gentile abstaining)

#195-20 Approve settlement of \$62,500 for Workers' Compensation Claim

HER HONOR THE MAYOR requesting authorization to approve the settlement of Workers' Compensation Claim #003554 in the amount of sixty-two thousand five hundred thousand dollars (\$62,500). The funds will be appropriated from Acct# 67A109A-515201-Municpal Workers' Compensation.

Note: A motion for Executive Session may be entertained

Respectfully submitted,

Rebecca Walker Grossman, Chair



City of Newton, Massachusetts Office of the Mayor

192-20

Telephone (617) 796-1100

Telefax (617) 796-1113

TDD (617) 796-1089

E-mail rfuller@newtonma.gov

March 9, 2020

RUTHANNE FULLER MAYOR

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

Councilors:

I respectfully submit a docket item to your Honorable Council requesting authorization to accept and expend a grant in the amount of \$8,500 from the Massachusetts Clean Energy Center (MassCEC) for marketing and technical advice for a "Heat Smart" program.

The grant will enable the City, with the help of volunteers, to increase outreach, education, and adoption of clean heating, cooling, and hot water heat pump technology within the City.

Thank you for your consideration of this matter.

Sincerely,

Fuller

Ruthanne Fuller Mayor

RECEIVED 2020 MAR -9 PM 4:58 CITY CLERK

March 9, 2020

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

Mayor Fuller:

I write to request that the City Council docket for consideration a request to accept grant funds from the Massachusetts Clean Energy Center in the amount of \$8,500 for the purpose of implementing a "Heat Smart" program.

This grant, from the Massachusetts Clean Energy Center (MassCEC) is for marketing and technical advice for a "Heat Smart" program. The program is intended to drive community adoption of clean heating, cooling, and hot water technology through a partnership with MassCEC and the Cadmus Group, its technical consultant.

The grant is intended to increase the adoption of heat pump technology in Newton. Heat pumps are a highly efficient electric technology designed to heat and cool buildings, avoiding the use of natural gas, heating oil, or inefficient electric equipment; and to provide hot water without the use of natural gas or less efficient electric equipment.

The use of efficient electric technology reduces our greenhouse gas emissions more and more as the electric grid becomes cleaner through the use of additional renewable generating resources (like solar, wind, and hydro). Using more, and cleaner, electricity is one of the most important strategies available for addressing climate change.

The grant will enable the City, with the help of volunteers, to increase outreach, education, and adoption of clean heating, cooling, and hot water heat pump technology within the City.

Very truly yours,

Ann G. Berwick Co-Director of Sustainability



RUTHANNE FULLER

MAYOR

City of Newton, Massachusetts Office of the Mayor

193-20

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E-mail rfuller@newtonma.gov

March 9, 2020

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RECEIVED

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

Councilors:

I respectfully submit a docket item to your Honorable Council requesting authorization to accept and expend a MassDOT Workforce Transportation Grant in the amount of \$250,000. This grant award is for a new, technology-enabled ride share shuttle for Newton's thriving Wells Avenue innovation district and the new UMass Amherst Mount Ida campus.

The project will provide first/last mile shared transportation to three rail lines in Newton and Needham. It is an innovative public-private partnership including numerous businesses, landowners, educational institutions, the Chamber of Commerce and the City of Newton. The City of Newton will provide project management and oversight, while our partners will provide financial support. We believe this combination will ensure the ongoing financial success of the system.

Thank you for your consideration of this matter.

Sincerely,

The Fuller

Ruthanne Fuller Mayor



Ruthanne Fuller Mayor

City of Newton, Massachusetts

Office of the Mayor

Telephone (617) 796-1100 Fax (617) 796-1113 TDD/TTY (617) 796-1089 Email rfuller@newtonma.gov

October 11, 2019

Astrid Glynn Rail and Transit Administrator MassDOT Rail and Transit Division 10 Park Plaza, Suite 4160 Boston, MA 02116

Dear Astrid,

As Mayor of the City of Newton, I am pleased to submit our application for a MassDOT Workforce Transportation Program grant for a new, technology-enabled ride share shuttle for Newton's thriving Wells Avenue innovation district and the new UMass Amherst Mount Ida campus.

The project will provide first/last mile shared transportation to three rail lines in Newton and Needham. It is an innovative public-private partnership including numerous businesses, land owners, educational institutions, the Chamber of Commerce and the City of Newton. The City of Newton will provide project management and oversight, while our partners will provide financial support. We believe this combination will ensure the ongoing financial success of the system.

Thank you for your consideration of our application. Please feel free to reach out me with any questions.

Sincerely,

Ruthanne Fuller

Romme Fuller

Mayor, City of Newton

Workforce Transportation Grant

Wells Avenue Business District Area Shuttle

Reducing single occupancy vehicle trip by providing first/last mile access to public transit in Newton's high density Wells Avenue business district area City of Newton Nicole Freedman <u>Nfreedman@newtonma.gov</u> (617) 429-8440 **Question 1:** Briefly provide an overview of the project for which you are requesting funds and how the project will demonstrably generate transit ridership within the project service area by shifting commuters from single-occupancy vehicles, or demonstrate innovation in serving the workforce population. Please provide the projected ridership numerically and describe the underlying methodology and rationale used to calculate the ridership number.

OVERVIEW

The City of Newton, with support from the Chamber of Commerce as well as multiple businesses and educational institutions, respectfully submits this application to MassDOT for funding to launch a new technology enabled transportation service. The system will provide shared, first/last mile rides between three MBTA rail lines and the Wells Avenue business district area of Newton which has 7,478 employees and 3,144 residents. The system intends to cost-effectively deliver the service using state-of-the-art technology, preferably using on-demand, dynamically routed microtransit technology. It is envisioned that this service will be the foundation for a system that ultimately expands citywide to all residents and employees.

GOAL

- 1. Sustainability Reduce single occupancy vehicle commute trips to the Wells Avenue business district area by providing first/last mile access to transit
- 2. Economic Development Foster a thriving business community by increasing access to jobs
- 3. Equity Enable low-income workers (i.e. those least likely to have a personal vehicle) to access Newton's dense Wells Avenue area employment center

VISION

The shuttle system will offer affordable, reliable, sustainable, convenient, shared first mile/last mile transportation between three rail lines and the Wells Avenue business district area. The system will operate weekdays from 7:00 AM until 8:00 PM using multiple vehicles.

Passengers will book trips in real-time using a smartphone or by calling the call center. Riders will walk to up to 5 minutes to pick-up locations; shuttle vans carrying multiple passengers will arrive within 10-15 minutes. Partner organizations will subsidize fares for their passengers, who will ride for free or pay a nominal rate of \$1.

The system will employ state-of-the-art technology to enable real-time bookings, dynamic routing and automated payments while providing options for people without smartphones or credit cards. Vendor will provide WAVE vehicles as needed.

Anonymized trip data will be made available to the City to facilitate evaluation and performance management. Vendor will adhere to tight service levels ensuring a high rate of on-time performance and customer satisfaction.

SERVICE AREA

Launch - At launch, the system will serve the 4,194 employees and 1223¹ residents of the Wells Avenue Business Park and the UMass Amherst Mount Ida campus. The service area houses dozens of technology focused businesses as well as three educational institutions: UMass Mount Ida Ida (abuts Wells Avenue), Williams James College, and the Solomon Schechter Day School. Stops will include:

- Newton Highlands MBTA (Green Line)
- Newtonville Commuter Rail (Worcester/Framingham line)
- Needham Heights Commuter Rail (Needham Line)
- Wells Avenue
- Jewish Community Center
- UMass Amherst Mount Ida

Near-Term Expansion – The City envisions expanding the system to greater Wells Avenue business district area within 12-18 months, once proof of concept is established. The expanded service zone adds Needham Street and Upper Falls, while continuing service to Wells Avenue and UMass Mount Ida. The total population in the service area will grow to 7,478 employees and 3,144 residents. Expansion to this full service area is central to the plan in that it will:

- Double the population served, and likewise triple ridership
- Reduce the cost per trip through economies of scale
- Introduce hundreds of new potential funding partner

Long-Term – The City sees the shuttle as the foundation for a new citywide transportation system providing first/last mile access to transit, filling MBTA service gaps for intra-city travel, and serving all residents, employees and visitors. The City currently operates NewMo, a City subsidized microtransit system providing more than 25,000 trips annually for Newton seniors. The Wells Avenue business district area shuttle and NewMo would merge to provide the citywide service.

See map of service area on following page.

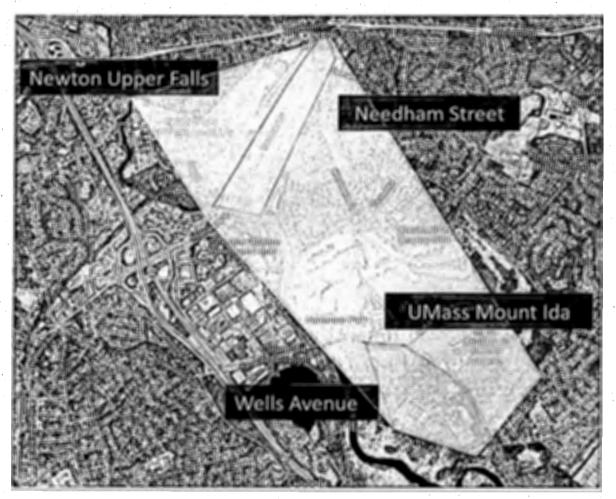
SERVICE INNOVATION

After significant analysis, as well as experience operating NewMo, the City has concluded that the microtransit service model is preferable to a fixed route system for the shuttle. Disparate home zip codes of employees and staff in the service area means the shuttle needs to serve as many different rail lines and pickup points as possible to maximize the pool of users. The microtransit system is optimal for this in that²:

- Vehicles are only routed to where passengers and demand exists
- Wait times are minimized without time buffers required for a fixed schedule
- During low-demand times, riders see improved quality of service with shorter wait times

¹ The UMass student population, currently negligible, will be growing substantially in the upcoming years.
² Newton's RFP will express a preference for on-demand microtransit system as the means to address these needs but the City will remain open to the most superior service model proposed to address needs.

Map of Service Area

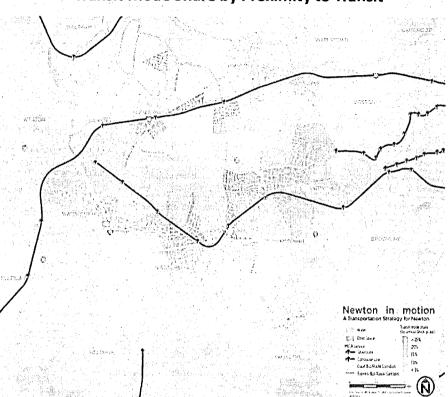


GENERATING RIDERSHIP

The service area has a strong need for a first/last mile transportation service. Access to public transit is currently poor in the service area. The three closest rail line stops, Newtonville commuter rail (Worcester Line), Needham Heights commuter rail (Needham Heights) and Green Line (Newton Highlands) are prohibitively far by foot for most commuters. MBTA bus route variant, route 52, serves the Wells Ave area, but stops infrequently.

Stetilon)Distance Als/Ave	Walking Distance to Needham St		
	Miles	Minutes	Miles	Minutes	
Newton Highlands Green Line	2.4	48	.6	12	
Needham Heights Commuter Rail	1.9	38	2.3	47	
Newtonville Commuter Rail	4.5	90	2.8	57	

Access to transit in Newton corresponds positively to rates of transit usage.³ Residents in the proposed shuttle service area, with weaker transit access, have lower rates of commuting by transit than residents living closer to transit in Newton. In much of the service area, only 10-15% of residents commute to work by transit, compared with more than 25% in areas closer to transit. Increasing access to transit will improve the rates of transit usage for residents and workers.



Transit Mode Share by Proximity to Transit

The areas of Newton with the highest percentages of residents riding transit to work are closest to the transit network, such as in Newton Centre and in Newtonville.

The recent establishment of UMass Amherst Mount Ida campus creates a time-critical opportunity to establish commuting patterns at the outset for the growing numbers of anticipated students, staff and faculty.

³ Newton's Transportation Strategy, Newton-In-Motion, shows that areas of Newton with better transit access see higher rates of commuting by transit.

PROJECTED RIDERSHIP

We project the system will provide 17,000 and 34,000 annual rides for the launch area (Wells Avenue and UMass) and expanded (Wells Avenue, UMass, Needham Street and Upper Falls) service areas respectively. This projection represents the average of results from four different projection methods as shown below.

Annual Ride Projections

Projection Method	Launch Phase	Expanded Service Area Phase
Projection Method	(Wells & UMass)	(Wells, UMass, Needham St, Upper Falls)
Method 1: Addressable Market		20,246 39,700
Aethod 2: Needham Xing 128 Business Council Shuttle		32,211 64,422
Aethod 3: Peer City - South Seattle		9,601 18,825
/lethod 4: NewMo		6,177 12,113
INAL Projected Annual Rides (Average #1-4)	(1) A second control of the second state of	17,059 33,765

Population Data	Martin Contractor		7 (Section Apr. 1)
	Wells & UMass Service Area Population	data from Chamber of Commerce	5,417
	Expanded Service Area Population	data from Chamber of Commerce	10,622
	% increase (Expanded/Launch service area)	2.0 = 10,622/ 5,417	2.0
Method 1. Addressable/Market	TRANSFER TO A CONTRACT OF A		
This method projects rides based on a reasonable assumption that 5-	% Addressable Market Served	23% calculated from zip code map	23%
7% of the addressable market uses the shuttle daily. To calculate the		1253 = 23% * 5417	1246
addressable market, we mapped 700 home zip codes of Wells Ave	Addressable Mkt - Wells & UMass	16,197 = .05* 1246 * 52 wks * 5 days/wk	16,197
employees and students to determine the percentage, 23%, who live along one of the proposed rail line stops. We then calculated			
ridership based on whether 5% or 7.5% of this addressable market	Annual Rides - 7.5% Addressable Mkt	24,295 = .075* 1246 * 52 wks * 5 days/wk	24,295
takes the shuttle, before taking the midpoint of the two projections.	Annual Ride Projection - Wells & UMass	20,246 = average (16,197, 24,295)	20,246
	Annual Ride Projection - Expanded Area	39,700 = 2.0 * 20,246	39,700
Method 2 Needham Xing 128 Business Council Shuttle	$\mathbf{T}_{\mathbf{r}+\mathbf{r}}$, $\mathbf{r}_{\mathbf{r}+\mathbf{r}}$, $\mathbf{N}_{\mathbf{r}+\mathbf{r}}$, $\mathbf{N}_{\mathbf{r}+\mathbf{r}}$, $\mathbf{N}_{\mathbf{r}+\mathbf{r}+\mathbf{r}}$	fram Chamber date	4,581
This method projects rides assuming the same percentage of the	Total population Needham Xing service area		27,240
population taking the existing and comparable Needham Xing	Annual rides - Needham Xing shuttle	from 128 Business Council website	ALC: NO TRUE RELATION
workforce shuttle (between Needham Xing business park near Wells Ave and the Newton Highlands MBTA) will take our shuttle.	Annual Ride Projection - Wells & UMass	32,211 = 27,240 * (5417/4581)	32,211
	Annual Ride Projection - Expanded Area	64,422 = 2.0 * 32,211	64,422
Method 3 Peer City South Seattle	Service and Ser	and the second second	42.005
Seattle runs a comparable first/last mile micro-transit system	Pop - Mt Baker	online population data	12,095
connecting to 5 rail lines in South Seattle which is of similar density	Pop - Columbia City	online population data	13,031
and suburban/urban feel to Newton. This model calculates the	Pop - Othello	online population data	7,364
percentage of the population that takes the shuttle daily in 5eattle	Pop - Rainier Beach	online population data	6,313
and applies that percentage to the Wells Ave area population. This	Pop - Tukwilia	online population data	19,878
projection is then adjusted downward because: 1) South Seattle's	Total population in Seattle service area	sum of above	58,681
system serves commuters heading downtown, where parking is	Daily rides - Seattle shuttle	from Seattle presentation, SUMC	800
expensive, whereas the Wells system serves commuters coming into	% served daily - Seattle shuttle	1.4% = 800 / 58,681	1.4%
Newton, with ample free parking 2) South Seattle's larger low income population is more apt take transit 3) The Seattle population	Daily Ride Projections - Wells	74 = .0014 * 5417	74
numbers don't include jobs, which are low for this area, but not	Downward adjustment of Daily projection	reduce by half to account for differences	37
negligible.	Annual Ride Projection - Wells & UMass	9,601 = 37*52*5	9,601
	Annual Ride Projection - Expanded Area	18,825= 2.0 * 9,601	18,825
Method 4 NewMo		Sector of the Se	an course strate i
	Newton senior population >60	from senior center	17,784
Newton currently runs NewMo, a micro-transit system for	Average daily weekday rides	from NewMo data	78
seniors over 60 years of age to go to village centers, medical	% served daily	.006 = 78/17,784	0.4%
appointments, shopping and houses of worship. This method	Daily Ride Projections - Wells	24 = .004* 5417	24
calculates the percentage of seniors that take the system daily	Annual Ride Projection - Wells & UMass	6177 = 24*52*5	6,177
and applies this percentage to our service area population.	Annual Ride Projection - Expanded Area	12,113= 2.0 * 6,177	12,113

COST - BENEFIT

The following calculations project cost per trip, annual VMT eliminated, cost per VMT eliminated and gallons of gas saved by the shuttle service⁴.

	Launch Rhase (Walls & UMass)	Near Term Grpanston (Wells, UMass, Needham St, Upper Falls)	
Projected Rides (annual)	17,059	33,765	
Anticipated Cost (annual)	\$300,000	\$400,000	The City and Chamber of Commerce received written quotes from 4 shuttle vendors, which informs anticipated cost figures and leads to reasonable confidence in the projected costs
Average SOV commute distance (miles)	9.8	9.8	Source: CTPS, Exploring the 2011Massachusetts Travel Survey: Focus on Journeys to Work
VMT eliminated (annual)	167,176	330,897	Each ride eliminates a commute trip. VMT eliminated = # Rides * average commute distance of addressable market
Gallons of gas saved (annual)	7,598	15,041	Uses 22.0 mpg as average fuel efficiency of light duty vehicle, from Bureau of Transportation Statistics, 2016
Cost/Trip	\$18	\$12	
Cost/VMT Eliminated	\$1.8	\$1.2	

FUNDING REQUEST

The City of Newton respectfully requests a grant in the following amount for the first year. The City requests funding for future years at a reduced rate consistent with increased levels of funding by partners and developers.

TotalProject@ost	\$400,000
City Match/ Funding Partners (confirmed)	\$110,000
Amount provided by grant	\$250,000
City Match/ Developer Contributions	\$remainder
(in process, support required by special permit)	

⁴ VMT and gallons of gas used by the shuttle are not included as part of these calculations

Question 2: Describe the implementation plan for the project. Please include the potential tasks, benchmarks, key milestones, key personnel, and deliverables that will be required to complete this project. Please describe your ability to deliver the project and describe your business plan which at a minimum contains project scope, cost, target market, assets to be used, staffing, technical resources to be used, and an implementation schedule.

PROJECT DELIVERY

The City is confident it can deliver this project successfully, on time and on budget. The City recently launched a similar microtransit service, NewMo, with operations partner Via, providing 25,000 trips per year to Newton seniors. The City will apply the knowledge gained and lessons learned over the last fifteen months, relative to research, procurement, contracting and service design to make the Wells Avenue business district area shuttle as successful as possible.

DELIVERABLES

The winning vendor will provide a turnkey transportation shuttle service within the Wells Avenue business district service area as discussed in the response to Question 1. *Please see question* 1: Vision for specifics relative to deliverables.

SCOPE (TASKS).

Vendor provides:

- Vehicles includes maintenance, cleaning and inspection
- Drivers includes driver training
- Customer Service includes sign-up and complaints
- Scheduling and Dispatching
- Insurance
- Reporting & Data
- Project Management

SCHEDULE (MILESTONES & BENCHMARKS)

	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Ju1-20	20-Aug
Fundraising (Chamber of Commerce)				2.75.19							
Partner Commitments/ Letters of Support	AP- Par Martin								an an that a		a a construction and
Submit Workforce Transportation Grant											
Chamber contracts with Business Partners						د . - چېمېردې د بونه مېري					
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Customer Service											
Quality Control											
Project Management						•					
Reporting									1.1.		
Fundraising									8 12,1 12 -		the second

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City of Newton Workforce Transportation Program

COST

The City anticipates the annual cost of service to be \$290,000 and \$400,000 for the initial and expanded service areas respectively. This estimate is informed by four written quotes requested and received the City and Chamber of Commerce. The City is in the process of formally procuring the service. *Please see Question 1, cost-benefit section, for more detail on cost.*

BUDGET

The City can provide a budget once the vendor is selected. Please note that the City will be purchasing a turnkey service and does not require the vendor to report on their operations cost to provide the service. The City typically limits its involvement to paying a monthly invoice for service hours delivered. System revenue will be nominal as most riders will pay \$0-\$1 per ride.

TARGET MARKET

Arce

The target market is comprised foremost of the 7,478 employees commuting to Newton's dense Wells Avenue business district area, which includes Wells Avenue, UMass Mount Ida, Needham Street and Newton Upper Falls. The shuttle will also provide service to the 3,144 residents of the area, many of whom will benefit from increased access to transit for their commutes to work outside of the service area. Of particular interest:

- Needham Street contains a significant number of retail employees whose incomes tend to be lower than the area median.
- UMass is poised to grow substantially adding new resident and commuting students

Wells Ave Business District Area Population

 The Northland Development on Needham Street proposes to add 800 new residential units, and more than 200,000 square feet of office and retail space.

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CE 24 4 4 2 1 - 2 1 - 2 1 -	and and a second	in the second se	Employees	Residents	Tiotell
s Ave Proper &	UMass emp	loyees	4,194	1,223	5,417

4,194	1,223	5,417
2,290	7,28	3,018
994	1,193	2,187
7,478	3,144	10,622
	2,290 994	2,290 728 994 1,193

KEY PERSONNEL (STAFFING)

- The Director of Transportation Planning, reporting to the Director of Planning and Development, Mayor and Chief Operating Officer will provide project management and oversight for the City. Nicole Freedman currently serves in this role.
- Newton's Economic Development Director will facilitate partnerships with the business community. Devra Bailin currently serves in this role.
- Newton's Chief Operating Officer and Mayor will provide overall oversight of the project.
- The Executive Director of the Newton-Needham Chamber of Commerce will serve as the liaison to the business community and oversee private partnerships. Greg Reibman currently serves in this role.
- The winning vendor will be required to have a full-time Project Manager or General Manager
- The winning vendor will, in addition to the Project Manager or General Manager, be responsible for providing staff and/or contractors to deliver on the scope of work.

ASSETS & TECHNICAL RESOURCES

No City assets are required for this project. The vendor will be required to provide purchased or leased vehicles as part of this service. The City and/or private sector partners may provide parking for the vehicles. No specific technical resources are required. Question 3: Describe your organization's plan for monitoring and evaluating the project's effectiveness, and describe how the deliverables of the project will be implemented

The vendor will be responsible for delivering a turnkey solution including vehicles, drivers, customer service, scheduling and dispatching, insurance, reporting and project management. Newton's Director of Transportation Planning will be responsible for monitoring and evaluating the project to ensure successful implementation. The City will employ the same method for monitoring and evaluating that it currently uses with success to monitor its NewMo transportation system.

- Project Management Meetings The City requires regular and ongoing meetings with the vendor's General Manager to discuss system performance. Expected schedule is as follows:
 - a. Leading up to launch meeting take place 2-3 times per week
 - b. Immediately after launch, until the system stabilizes, meetings take place daily
 - c. Once the system is stabilized weekly calls are maintained
 - d. When issues arrive, daily calls resume until the issue is resolved.
- Global Metrics The City will be monitoring overall system health, financial sustainability, and environmental benefits through the following key global metrics, with data provided or calculated by the City (financial and environmental) and vendor (system health)
 - a. System Health -- Total rides, number of unique riders, shuttle rides as percentage of
 - daily commute trips to service area
 - b. Financial sustainability Committed funding, total cost, cost per ride
 - c. Environmental benefits GHG, gallons of gas and VMT eliminated

Service Levels - As with the City's existing NewMo system and bike share system, the City requires access to de-identified data, usually via an online dashboard, which streamlines analysis and helps the City compare actual service levels to committed service levels. These service levels, which serve as the backbone for evaluation are baked into the project from inception; the RFP and subsequent vendor contract specify and require the vendor to commit to and adhere to tight service levels and provide relevant data to monitor these service levels. Anticipated service levels are as follows.

a.	Average trip rating	1	>4.5
, b.	Average wait time		10-14 minutes
с.	Maximum wait time		30 minutes
d.	Maximum percentage of missed or declined trips		To be determined
e.	Response time to calls and emails		100% w/in 24 hours
f.	Average wait time (phone)		To be determined
Survey	- The City will issue an annual survey to both users a	nd non-user	s of the system to get
a deep	er understanding of the service impact. Questions w	ill be asked t	o assess:

- a. User demographic
- b. Purpose of trip
- c. How people would have otherwise made the trip
- d. Why people use the system/why people don't use the system
- e. Recommendations and suggestions
- Direct Interaction Not to be minimized, the City receives invaluable feedback directly from passengers and constituents who contact the Mayor's Office or City 311 system. Additionally the City Project Manager intends to ride the system regularly, and speak with drivers and customers to maintain a pulse on system performance.

Question 4: Describe how your organization would be able to sustain this project after the conclusion of the MassDOT funding period, if proven successful. Please describe the viability of your project and provide examples demonstrating the financial sustainability into the future.

Newton is keenly focused on creating a financially sustainable system beyond the MassDOT funding period. Newton is employing a five-point strategy to ensure sustainability.

- Local Private-Sector and Non-Profit Funding The business and educational communities are deeply committed to reducing drive-alone trips to and from this highly congested area in conjunction with this project. Area businesses and organizations have committed more than \$110,000 to support the launch and operations of the shuttle, with the Newton-Needham Chamber of Commerce spearheading fundraising. Funding partners are prepared to contribute annually. Commitments include:
 - a. UMass Mount Ida (\$60,000)
 - b. William James College (\$30,000)
 - c. Jewish Community Center (\$20,000)
 - d. Jumbo (amount tbd)
- Development Newton's development review process requires developers seeking a special permit to financially support a shuttle service. Multiple developments currently have such a requirement.
- Cost-Effectiveness Newton is being intentional about making the service cost-effective. The City will be procuring the service in a competitive bid, in which cost will be a factor. Additionally, Newton is looking to expand the system citywide introducing significant economies of scale.
- 4. *Advertising/ Sponsorship* The City is open to selling advertising and sponsorship on the vehicles to further generate revenue.
- 5. *Rider Revenue* Rider revenue, though not anticipated to be significant, will be reapplied to the service.

Question 5: To assist MassDOT in determining if you are eligible for CMAQ funding, please answer the attached Air Quality Benefits Analysis. Answers to these questions are not part of the competitive application scoring. Rather, they will help MassDOT determine whether an applicant is eligible to receive funds from this funding source. Projects requesting CMAQ funds will be required to undergo a CMAQ Consultation process as part of the application review period.

See Attachment B: Air Quality Benefits Analysis

Question 6: Please describe any partnerships that you are forming with other organizations in your region in order to ensure the success of the project, as well as any attempts to leverage additional public or private funding.

The City of Newton has established the following partnerships to ensure the project's success.

- Newton-Needham Chamber of Commerce The Chamber of Commerce has taken an active role in convening businesses, outreaching potential vendors and conducting research to help with the business plan. Additionally, the Chamber is spearheading private sector fundraising and will serve on the evaluation committee for procurement representing the business community.
- Business and Institutional Support The City has received more than \$110,000 in financial commitments for year one from the following businesses and education institutions.
 - o UMass Mount Ida (\$60,000)
 - William James College (\$30,000)
 - o Jewish Community Center (\$20,000)
 - Jumbo (amount tbd)
- Special Vehicle Access UMass Amherst Mount Ida has committed to allowing the shuttle exclusive access to an internal road which will enable the shuttle to bypass congestion on the public roads, and thereby have shorter ETA's. The Jewish Community Center is reviewing a similar request.
- Developers Newton's development review process requires developers seeking a special
 permit to financially support a shuttle service. Multiple developments currently have such a
 requirement.
- Newton Senior Center As discussed, the proposed system is envisioned to grow citywide which includes potentially merging with NewMo, Newton's existing senior transportation system. This will introduce significant economies of scale.



Sept. 20, 2019

To Whom It May Concern,

Over the past five years, the Newton-Needham Regional Chamber has been working to revitalize the Wells Ave section of Newton, an underutilized office park that, until our effort began, had not seen any significant upgrades in nearly 15 years.

Thanks to a 2015 seed grant from the U.S. Economic Development Administration we conducted an economic development study and created a program to market Wells Ave, as part of the "N-Squared Innovation District," an destination for new and innovation economy businesses. This effort has yielded great results and growth. Several property owners have invested in renovating and upgrading their properties. Employers working in the life sciences, cybersecurity and education sector have relocated and expanded here.

But our success and future success at Wells Ave has always been impeded by one critical factor: lack of first mile/last mile transportation from the near-by Green Line and Needham Line commuter rail stations.

That's why the chamber enthusiastically supports the City of Newton's application for the MassDOT Workforce Transportation Program grant. We are thrilled to be working with the City of Newton to help implement a new public transportation system, aimed at providing first mile/last mile access to the MBTA. Working closely with the city and our property owners and employers, the chamber is committee to play a proactive role in convening businesses, fundraising, procurement, planning and evaluation of the project.

Thank you for your consideration of Newton's application.

Sincerely, Greg Reibman

President Newton-Needham Regional Chamber September 23, 2019

To Whom It May Concern,

I am writing in support of the City of Newton's application for a MassDOT Workforce Transportation Program grant. We are excited to be working with the City of Newton to help implement a new public transportation system aimed at providing first mile/last mile access to the MBTA.

The UMass Amherst campus at Mount Ida in Newton, established in 2018, is on track to see significant growth each year. As we grow, we are cognizant of the need to establish a robust shuttle system that will enable students, staff and faculty to arrive on campus without a car using public transportation. UMass Amherst at Mount Ida plans to provide \$60,000 in funding to support this new transportation system.

Thank you for your consideration of Newton's application.

Sincerely,

Honda P. M.B.

Andrew P. Mangel Vice Chancellor Administration and Finance



September 20, 2019

To Whom It May Concern,

I am writing in support of the City of Newton's application for a MassDOT Workforce Transportation Program grant. We are thrilled to be working with the City of Newton to help implement a new public transportation system, aimed at providing first mile/last mile access to the MBTA. William James College employs approximately 200 full and part time faculty staff and has approximately 750 students. We believe this new system will reduce vehicle trips to and from our facility by enabling our students and employees to access our facility by public transportation. William James College plans to provide \$30,000 in funding to support this new transportation system.

Thank you for your consideration.

Sincerely,

Daniel & Brows

Daniel J. Brent, MSA, CPA- Vice President of Finance and Operations William James College One Wells Avenue, Newton, MA 02459 617-564-9336 – <u>www.williamjames.edu</u> Dan_brent@williamjames.edu



October 7, 2019

To Whom It May Concern:

I am writing in support of the City of Newton's application for a MassDOT Workforce Transportation Program grant. We are thrilled to be working with the City of Newton to help implement a new public transportation system, aimed at providing first mile/last mile access to the MBTA. The Leventhal-Sidman Jewish Community Center employs 125 full and part-time staff and has roughly 10,000 members. We believe this new system will reduce vehicle trips to and from our facility by enabling members and staff to access our facility by public transportation. The Leventhal-Sidman Jewish Community Center plans to provide up to \$20,000 in funding to support this new transportation system.

Thank you for your consideration.

Sincerely

Mark Sokoll

MS:las

JCC Greater Boston

333 Nahanton Street Newton, MA 02459-3213

T 617.558.6522 bostonjcc.org





1900 Crown Colony Drive Suite 405 Quincy, MA 02169 617-934-2002 www.JumboCapital.com

October 4, 2019

To Whom It May Concern,

I am writing in support of the City of Newton's application for a MassDOT Workforce Transportation Program grant. We are thrilled to be working with the City of Newton to help implement a new public transportation system, aimed at providing first mile/last mile access to the MBTA. Our properties at 199 Wells Ave; 7-57 Wells Ave and 75-95 Wells Ave employ more than 400 staff. We are eager to help our tenant's staff commute to and from work without a car using via public transportation. Jumbo Capital Management's SPE for Wells Park plans to provide funding to support this new transportation system.

Thank you for your consideration of Newton's application.

Sincerely,

Jordan Berns Partner Jumbo Capital Management, LLC jberns@jumbocapital.com

Attachment B: Air Quality Benefits Analysis

This grant program is funded through the Congestion Mitigation and Air Quality Improvement (CMAQ) Program, which is administered by the Federal Highway Administration (FHWA). The purpose of the CMAQ Program is to support transportation projects, transit service, and other related efforts that contribute to air quality improvements and mitigate the impacts of congestion. As such, to meet federal requirements related to CMAQ, project applicants are required to demonstrate that their proposed projects will reduce emissions and provide an air quality benefit. The questions in this section address this requirement.

The answers provided to these questions will be reviewed by the CMAQ Consultation Committee, which consists of members from the Massachusetts Department of Transportation (MassDOT), the Massachusetts Department of Environmental Protection (MassDEP), the U.S. Environmental Protection Agency (EPA), and regional planning agencies within Massachusetts.

Questionnaire

- 1.) Please select the category that most closely aligns with the proposed project:
 - Transit/Shuttle Service (Section A)
 - Bike share (Section B)
 - Qualitative Analysis / Other _____ (Section C)

A. Transit/Shuttle Service Questions

1.) Does your organization currently operate a transit or shuttle service? If not, skip to question 2. If yes, please complete the following tables:

Table 1: Summary of Currently-Operated Transit/Shuttle Vehicles							
Vehicle	Vehicle Vehicle Type Occupancy		Year of	Vehicle Length	Fuel Required		
ID			Manufacture				
1	Mercedes Metris	6	2019	202.4	premium unleaded (rec)		
2	Mercedes Metris	6	2019	202.4	premium unleaded (rec)		
3	Mercedes Metris	6	2019	202.4	premium unleaded (rec)		
4	Mercedes Metris	6	2019	2024	premium unleaded (rec)		

	Vehicle	Round Trips /	Length of	Average	Daily	Days	Operation
2	ID	Day	Route (mi)	Speed	Ridership	Operated /	Hours
				(mph)	1	Year	
	1	N/A microtransit	2.62		58	360	M-F 9-5, SaSu 9-12
	2.	- · ·					
1	3						
	4		1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -				

Numbers in chart 2 above are for all four vehicles, as our system does not separate our figures by vehicle. System is micro-transit, with no fixed route, and hence categories are not fully applicable. Relevant information: All rides are one way, system averages103 total rides per day for all vehicles, with 43% of rides shared and avg ride distance 2.62 miles. Total average distance driven per for all vehicles per day is 300. 2.) Please provide the following details about the proposed transit or shuttle service and vehicles. If unsure, provide an estimate or leave blank:

** 2 vehicles for initial Wells Service area. 3 vehicles for expanded N2 service area.

Table 2: Summary of Proposed Transit/Shuttle Vehicles									
Vehicle ID	Vehicle	Occupancy	Year of	Vehicle	Fuel Required				
· ·	Туре	(Number of	Manufacture	Length					
de la composición de		Passengers)							
 •	Metris or Sprinter	6 or 13	2019/2020	202.4 or 233.4	premium gas or diesel				
	Metris or Sprinter	6 or 13	2019/2020	202.4 or 233.4	premium gas or diesel				
and the second second	Metris/Sprinter (expanded)								
		4 ¹		•					

Vehicle ID	Round Trips / Day	Length of Route (mi)	Average Speed (mph)	Daily Ridership	Days Operated / Year	Operation Hours
	N/A microtransit	2.9 initial/ 2.4 expanded		60 initial, 124 expanded	255	M-F 7 AM - 8 PM
·		1		•	٢	
					· · ·	
		•				

- 60 rides/day for initial Wells/UMass area; 124 for expanded area
- B. Bike Share Questions

1.) How many bikes will be included in this project?

2.) What is the expected average bike trip length?

3.) What is the expected average number of trips per bike per day?

4.) How many days of the year will your proposed bike share operate?

C. Qualitative Analysis

If none of the areas above apply to your project, please provide a qualitative assessment of why your project is expected to reduce emissions, citing applicable research where possible.

Please note that although quantitative analysis of air quality impacts is expected for almost all project types under the CMAQ program, an exception will be made when it is not possible to accurately quantify emissions benefits. In these cases, qualitative assessments based on reasoned and logical determinations that the projects or programs will decrease emissions will be conducted.

	(aunch Chase)	Expended	Notes
SOV Trips Eliminated			4
Projected Rides (annual)	17,059	33,765	
Anticipated Cost (annual)	\$300,000	\$400,000	The City and Chamber of Commerce received
Average commute distance*	9.8	9.8	Source: CTPS, Exploring the 2011Massachusetts
	167,176	330,897	Each ride eliminates a commute trip. VMT
VMT eliminated (annual)			eliminated = # Rides * average commute distance
Gallons of gas saved (annual)	7,599	15,041	duty vehicle, from Bureau of Transportation
Shuttle Usage			
Estimated shuttle vehicles miles (daily)	82	162	· · ·
Estimated shuttle vehicles miles (annual)	20,880	41,328	
Avg fuel efficiency all vehicles	18	18	Avg of 22 mpg for Metris and 14 mpg for Sprinter
Gallons of gas used by shuttle (daily)	4.5	9.0	and the second
Gallons of gas used by shuttle (annual)	1183	2341	1 A second statement of the
Net Gallons of Gas saved (annual)	6,416	12,700	
Net VMT eliminated (annual)	146,296	289,569	좋아 사용 한 것은 이 낮은 생활한 명화 영향
Cost/Net VMT eliminated	\$2.1	\$1.4	



RUTHANNE FULLER

MAYOR

City of Newton, Massachusetts Office of the Mayor

194-20 Telephone

(617) 796-1100

Telefax (617) 796-1113

TDD (617) 796-1089

E-mail <u>rfuller@newtonma.gov</u>

March 9, 2020

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

Councilors:

I respectfully submit a docket item to your Honorable Council requesting authorization to accept and expend a grant from the Executive Office of Elder Affairs in the amount of \$15,000 to provide financial assistance for qualified seniors in the City of Newton to receive the services of Newton at Home Inc. Newton at Home is a non-profit membership organization with the mission of assisting older residents stay independent and safe in their homes.

These funds will be used to assist in meeting Newton at Home's goal of combatting social isolation and increasing opportunities for engagement.

Thank you for your consideration of this matter.

Sincerely,

Kitham Fuller

Ruthanne Fuller Mayor





Mayor Ruthanne Fuller 1000 Commonwealth Ave Newton, MA 02459 March 10, 2020

Dear Mayor Fuller,

I am writing to request that you docket an item with the City Council requesting authorization for the acceptance and expenditure of a grant from the Executive Office of Elder Affairs in the amount of \$15,000 to provide financial assistance for qualified seniors in the City of Newton to receive the services of Newton at Home Inc.

Newton at Home (NAH) is a non-profit membership organization with the mission of assisting older residents to stay independently and safely in their homes. Qualified members are Newton residents who are 60 years of age or older living in their homes, apartments or condominiums. Members request and receive services from a large group of volunteers. Services that are provided include transportation, technology assistance, handyman jobs, friendly visits, shopping assistance and errands.

The funds were earmarked in the FY20 State budget process. The funds will be used to assist in meeting NAH's goal of combatting social isolation and increasing opportunities for engagement. Funding will provide transportation to social, cultural and educational events. The funds will provide opportunities for reduced fee members to attend events that they would not be able to afford. Some of the funding will help to subsidize the reduced fee membership fund. The remaining funding will be used to raise awareness of the organization in order to provide more Newton residents with the opportunity to partake in the services NAH provides.

Thank you for your support of this. Please let me know if you have any questions.

Joyne Colino

Jayne Colino Director, Department of Senior Services

Newton Council on Aging/Senior Center | 345 Walnut Street | Newton, MA 02460 Tel: 617-796-1660 | Fax: 617-969-9560 E-mail: info@newtonseniors.org | Web Site: www.newtonseniors.org





RUTHANNE FULLER

MAYOR

City of Newton, Massachusetts

Office of the Mayor

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E-mail rfuller@newtonma.gov

March 9, 2020

2020 MAR -9 PM 4:5

RECEIVED

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

Councilors:

I respectfully submit a docket item to your Honorable Council requesting authorization to approve the settlement of Workers' Compensation Claim # 003554 in the amount of \$62,500. Funds will be appropriated from Acct # 67A109A-515201 – Municipal Workers' Compensation.

Kelly Brown, our Workers' Compensation Manager will be available at the Finance Committee meeting to answer any questions.

Thank you for your consideration of this matter.

Sincerely,

Kutham Fuller

Ruthanne Fuller Mayor

195-20



CITY OF NEWTON, MASSACHUSETTS DEPARTMENT OF HUMAN RESOURCES

Ruthanne Fuller, Mayor Michelle Pizzi O'Brien Director Telephone (617) 796-1260 Facsimile (617) 796-1272 TDD/tty # (617) 796-1089

Interoffice Memorandum

To:	Maureen Lemieux			
From:	Kelly Brown- WC Manager			

Date: March 9, 2020

Re: Docket Request to settle WC Claim # 003554

The Worker's Compensation Manager and our Defense Council Mary Ann Calnan respectfully asks for formal approval to settle WC claim # 003554 in the amount of \$62,500 as the Judge and Mediator had suggested. Once approved by the Judge we have 14 days to issue the checks. The Plaintiff Lawyer will receive 15% off the top (\$9375.00) as this was settled on pre-liability basis. The Claimant will get \$ 53,125. This will come from the budget line 67A109A-515201 the Municipal WC line item.



RUTHANNE FULLER MAYOR

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E-mail <u>rfuller@newtonma.gov</u>

March 9, 2020

2020 MAR - 9 PM 4: 59

RECEIVEL

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

Councilors:

I respectfully submit a docket item to your Honorable Council requesting authorization to appropriate and expend \$7,000,000 and authorize a general obligation borrowing of an equal amount for estimated design and construction costs associated with Water Main Improvements in FY2021.

Water main rehabilitation projects for FY2021 include Needham Street and Winchester Street from Boylston Street to Needham Street (\$5,000,000) and Chestnut Street from Beacon Street to Commonwealth Ave (\$2,000,000).

Further, I request that your Honorable Council authorize any premium received upon the sale of the bonds or notes, less the cost of preparing, issuing and marketing them, and any accrued interest received upon the delivery of the bonds or notes be applied to the costs of the project being financed by the bonds or notes and to reduce the amount authorized to be borrowed for the project by a like amount.

Thank you for your consideration of this matter.

Sincerely;

Kurtham Fuller

Ruthanne Fuller Mayor City of Newton



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

Ruthanne Fuller Mayor

March 9, 2020

To: Mayor Ruthanne Fuller Jonathan Yeo, Chief Operating Officer Maureen Lemieux, Chief Financial Officer

From: James McGonagle, Commissioner

Subject: FY21 Water Main Improvements

I respectfully request a total of \$7,000,000 for estimated design and construction costs associated with Water Main improvements in FY 2021.

In the Capital Improvement plan, the City is committing to borrowing \$4.6 million annually from City debt and MWRA loans to upgrade our water system, which will improve fire flows, and ensure the delivery of superior water quality. The Needham Street and Winchester Street water main project schedule is driven by MassDOT's reconstruction project. The Chestnut Street water main project schedule is being driven by the schedule of the milling and paving and sidewalk improvements of Chestnut Street by Public Works. We are therefore requesting additional funds to cover the cost of these projects.

Water main rehabilitation projects for FY 2021 include the following estimated design and construction costs:

\$5,000,000 - Needham St. and Winchester St. from Boylston St. to Needham St. **\$2,000,000** – Chestnut St from Beacon St. to Commonwealth Ave.

Needham St. and Winchester St. from Boylston St. to Needham St.

This work precedes the rehabilitation of Winchester Street and Needham Street by MassDOT. This unlined cast iron water main is 20 inches in diameter, and it was installed in 1877. We have experienced two major leaks on this water main within the past 2 years. New gate valves were recently installed to control water main shut-downs if necessary. Our consulting engineers were tasked to evaluate the pipe, and they made a recommendation as to its rehabilitation. The pipe has a remaining useful life of about 17 years, and complete replacement is recommended prior to roadway rehabilitation. Cost estimates for complete replacement is \$5,000,000 (including design). Cost estimates and the testing report is attached. This project will be designed by MassDOT's consulting engineers (under contract with the city), and it will be bid by MassDOT as part of the roadway rehabilitation contract. City of Newton will pay for this construction under a non-participating agreement with MassDOT.

Chestnut St from Beacon St. to Commonwealth Ave.

This work precedes the milling and paving of Chestnut Street. This unlined cast iron water main is 12 inches in diameter, and it was installed in 1877. The estimated construction cost is \$2,000,000, based on a recent bid for the Chestnut Street (from Boylston street to Beacon street) water main cleaning and lining project. This project will be designed by our consulting engineers, and it will be bid by the city.



September 25, 2018

Mr. Ted Jerdee, Director of Utilities City of Newton DPW 1000 Commonwealth Avenue Newton, MA 02439

Subject: Winchester Street Pipe Analysis T&H No. 4586-09

Dear Mr. Jerdee:

As requested, Tata & Howard has performed testing on a sample of pipe provided by the City of Newton from the 20-inch diameter main along Winchester Street to evaluate the condition of the pipe. The unlined cast iron pipe was reportedly installed in 1878. The pipe sample was sandblasted at Abrasive Blasting and Coating in Worcester, MA and then delivered to Massachusetts Materials Research, Inc. (MMR) in West Boylston, MA, for metallurgical analysis and testing.

The sandblasted pipe sample was visually inspected by MMR. The minimum and maximum wall thickness was recorded and used to estimate the pipe class based on the measured, remaining thickness of the pipe sample wall and comparison with vintage American Water Works Association (AWWA) pipe thickness class information. Pitting was observed on the interior of the pipe with pits as deep as 0.1365 inches. Reportedly, no external pitting was observed. Table No.1 shows the pipe characteristics measured by MMR, and a photograph of the interior pitting is shown in Figure No. 1, below.

Class	Wall Thickness	Wall Thickness	Internal Pit (in)	External Pit (in)	Thickness less Total	Percent Remaining Wall Thickness
D	1.03	0.8465	0.1365	0.00	0.7100	69%

Table No. 1 Summary of MMR Report

Tata & Howard 67 Forest Street | Marlborough, MA 01752 T: 508-303-9400 | F: 508-449-9400 www.tataandhoward.com

Other Offices MA | NH | CT | ME | VT | AZ | TX Mr. Ted Jerdee, Director of Utilities City of Newton DPW September 25, 2018 Page 2 of 3

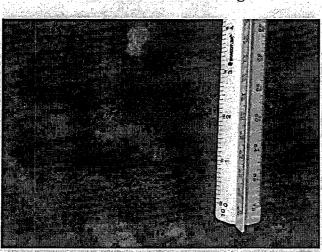


Figure No. 1 Winchester Street Pitting

After measurement of the physical characteristics of the pipe, the sample was crushed by MMR using the ANSI A21.6-13 Ring Test Method. The Factor of Safety (FOS) is the ratio of the pipe resistance capacity to loads that are applied to the pipe itself. The standard factory minimum FOS for new pit cast mains is 2.5. The FOS can begin to decrease as soon as the pipe is installed in the ground. Water quality, soil composition, groundwater characteristics, and groundwater flow can lead to corrosion, metal deterioration and loss of strength in pipe, lowering the FOS. The test result for the pipe sample was 11,700 lbs and the remaining FOS is estimated at 1.15.

MMR performed additional testing on the pipe sample including tests of tensile strength, Talbot strip tests, and metallurgical analysis. Tensile strength was estimated at 5,950 pounds per square inch (psi), compared to the typical original value for cast iron of 20,000 to 60,000 psi. The Talbot strip test results were used to estimate an average modulus of rupture of 18,667 psi, compared to the typical standard for pit cast iron pipe of 40,000 psi. A copy of the MMR report is included in Attachment A.

The City has reported that at least one break has occurred on this main. Based on the extent of metal loss, the low FOS, and the deteriorated tensile strength and modulus of rupture, the Winchester Street water main is near the end of its useful life and should be scheduled for replacement. Cleaning and cement mortar lining will inhibit additional interior corrosion but will not affect structural strength. As at least one break has occurred on this main, cleaning and lining is not recommended. One option is a structural liner, however, additional analysis using the hydraulic model is recommended to evaluate the impact of reducing the internal diameter of the pipe.



Mr. Ted Jerdee, Director of Utilities City of Newton DPW September 25, 2018 Page 3 of 3

At this time, we wish to express our appreciation to the Newton Water Department for their participation in this project and their help in collecting information and the pipe sample. If you have any questions, please do not hesitate to contact us.

Sincerely,

TATA & HOWARD, INC.

racey

Karen L. Gračey, P.E. Co-President

Enclosures



REPORT TO:

Tata & Howard

Marlborough, MA

Attn: Steve Daunais

Purchase Order No. 4586-09

Metallurgical Life Assessment of a 20-inch Pipe from Newton, MA

MMR Project No. 123531

September 7, 2018

From: Massachusetts Materials Research, Inc.

> Veda-Anne Ulčickas Senior Materials Engineer

BACKGROUND AND INVESTIGATION

Tata & Howard requested that Massachusetts Materials Research, Inc. (MMR) perform a metallurgical life assessment of a section of a 20-inch pipe from Newton, MA. This assessment was to include tensile testing, Talbot strip testing, ring crush testing, chemical analysis, hardness testing and metallurgical examination for microstructure, corrosion/remaining wall/remaining life. The pipe was installed in 1878, and the segment removed in 2018.

RESULTS

Visual Examination

The pipe segment is shown as-received in Figures 1 and 2. The 14-inch tall unlined segment contained numerous visible internal pits, many of which were too wide to be completely accommodated within a metallurgical mount and appeared deep for the pipe's nominal 7 /₈-inch wall thickness, Figure 3.

Wall thickness was measured as-received with digital calipers at arbitrarily determined 12 o'clock, 3 o'clock, 6 o'clock and 9 o'clock positions, and the depths of several pits determined. These measurements are summarized in Table I.

Location	Wall Thickness/Depth, inch
12 o'clock	0.9235
3 o'clock	0.8465
6 o'clock	0.9470
9 o'clock	0.8720
ID Pits, Various	0.1265, 0.1365, 0.1185

Table IWall Thickness and ID Pitting Depth

Wall thickness measurements taken on as-received piping provide information on total wall thickness only, including corrosion product, not just remaining metal thickness within that wall. Indications of graphitic corrosion were present during the visual examination of this pipe, with some regions revealing as little as ¹/₄-inch remaining metallic wall, Figures 4 and 5. The wall thickness value used during calculation of remaining life for this pipe was assessed from a metallurgical section taken at a region of visibly less general corrosion and no visible pitting.

Overall, the initial visual examination revealed that this pipe appeared to be in poor condition due to graphitic corrosion and pitting along its ID wall surface. Note that no obvious pitting was noted on the OD wall.

Mechanical Testing

Tensile Testing

One longitudinally oriented ASTM flat tensile test specimen with a ¹/₂-inch gauge section width was machined from the pipe material. This testing revealed the ultimate strength (UTS) of the pipe metal was 5,950 PSI. This result is summarized below in Table II.

Talbot Strip Testing

Two longitudinally oriented ¹/₂-inch deep specimens for Talbot strip testing were machined from the pipe material remaining from ring testing. The modulus of rupture calculated per AWWA C106-75 was 19,620 PSI for one specimen and 17,714 PSI for the second specimen. This produces a mean modulus of rupture of 18,667 PSI. These results are summarized below in Table II.

Ring Crush Testing

Ring crush testing was performed on a 12-inch long section of the submitted pipe. This testing revealed a modulus of rupture of 25,647 PSI, calculated per AWWA C106-75. This result is summarized below in Table II.

Hardness Testing

Brinell (HB) hardness testing using a 10mm ball and a 3,000Kg load was performed on the pipe material. This testing indicated the pipe material hardness was HB 152. The result of this testing is summarized in Table II below, along with a conversion to the Rockwell B (HRB) scale for convenience.

Summary

Table II summarizes the results of the mechanical testing of this pipe segment. As the age of the pipe and its specifications were unknown, some typical mechanical test values are provided for comparison.

Mechanical Test	Subject Pipe	AWWA Standard	Other Standards (Grey Cast Iron)
Tensile Test – UTS, PSI	5,950	n/a	20,000 - 60,000
Ring Crush Test Modulus of Rupture, PSI	25,647	40,000, min.	n/a
Talbot Strip Test Modulus of Rupture, PSI	18,667	40,000, min.	n/a
Hardness, HB (HRB)	152 (82)	< 95 HRB	Variable

Table II Mechanical Testing Summary

These results revealed that the subject pipe is weaker than modern standards require, but meets the AWWA requirement for hardness. This is a normal result for older piping.

Chemical Analysis

Chemical analysis was performed on the pipe ring material using inductively coupled plasma spectroscopy (ICP) in conjunction with LECO carbon-sulfur analysis. The results of this testing are summarized below.

Ellerereret	Composition, wt. %				
Element	Pipe Material	UNS F10006			
Carbon	3.19	3.10 - 3.40			
Cobalt	0.01	· · · · ·			
Copper	0.02	· · · · · · · · · · · · · · · · · · ·			
Manganese	0.20	0.60 -0.90			
Nickel	0.02				
Phosphorus	1.28	0.15 max.			
Silicon	1.49	1.90 - 2.30			
Sulfur	0.082	0.15 max.			
Titanium	0.07	· · · · · · · · · · · · · · · ·			
Vanadium	0.04				

Table IIIChemical Analysis Results

This analysis revealed that the pipe material was typical of older grey cast irons, with a high phosphorus content. A modern chemical composition controlled grey iron is provided as a comparison. Phosphorus improves mold filling capabilities of the molten metal and depresses melting temperature. It was intentionally added to older irons for these reasons, as its detrimental effects on pipe metallurgy were not understood. Excess phosphorus levels lead to the development of an iron phosphide eutectic phase known as steadite. This phase is hard and brittle and can encourage brittle cracking of pipes that contain it if they are not cut or handled with care.

Metallurgical Examination

Longitudinal and transverse oriented sections were cut from the pipe, mounted in plastic, and ground, polished and etched to reveal pipe material microstructure. The resulting metallurgical mounts provided planar cross-sectional views of the pipe material, allowing metallurgical features and remaining wall thickness to be observed. These mounts were examined in both the as-polished and the etched conditions.

This examination revealed that the pipe material possessed ASTM A247 Type A random flake graphite along its ID wall, Figure 6. The same was present along its OD wall, but mixed with some tendency towards Type B rosettes, Figure 7. Random flake graphite is a desirable graphite form in cast irons as it is not as brittle as the rosette form commonly seen in older pipes.

MMR Project No. 123531 Page 4

Etching revealed that the pipe possessed a largely pearlitic microstructure with a well-developed cellular network of steadite, Figure 8. The steadite network would be predicted by the phosphorus content of the pipe material. A detail view of the microstructure with phases labelled is provided in Figure 9. This microstructure, excepting the steadite network, is common in newer cast irons. This pipe did not possess the variability in microstructure and graphite forms typically seen with older irons. Given the state of the art of cast iron metallurgy when this pipe was installed, it was a well-made example of its kind.

Remaining Life Calculations

Remaining life calculations were performed on two regions of this pipe. One was at a region of less corrosion, also used to provide the best estimate of the original wall thickness of the pipe. The second was at a region of thin remaining wall (Figures 4 and 5). Both options are provided in case there exist regions along this pipe that exhibit less internal corrosion than was observed on the submitted segment. If the remainder of the pipe is typical of this segment, then the more corroded data should be used for replacement scheduling.

In the region with less corrosion, wall thickness was 0.839-inch with a remaining wall of 0.587inch, Figure 10. At 140 years' service, this produces a corrosion rate of 0.0018 inch/year and a remaining life of 326 years. Note that this remaining life assumes a constant corrosion rate and failure by through-wall corrosion penetration. In reality, pipes can fail with as much as 20% remaining wall if pressure spikes, nearby construction disturbance, or undermining occurs. In this less corroded region, a 20% remaining wall failure assumption produces a remaining life of 233 years.

In the region with more noticeable corrosion, remaining wall was 0.2425-inch, which produced a corrosion rate of 0.0043 inch/year. This indicated a remaining life of 56.4 years, assuming through-wall corrosion penetration. For a 20% remaining wall failure, remaining life in the more corroded region was 17 years.

CONCLUSIONS

- The submitted pipe did not possess a cement lining.
- Chemical analysis indicated the pipe material contained an excess of phosphorus over modern requirements. This is typical of older cast irons.
- The pipe microstructure was predominantly pearlitic with a well-developed steadite network and only isolated ferrite. This is typical of older cast irons.
- Mechanical testing indicated the pipe was weaker than modern requirements specify. This
 is typical of older cast irons, especially ones with extensive corrosion.
- The corrosion rate for this pipe at heavily corroded regions is 0.0043 inch/year. This corrosion rate indicates a remaining life of 56.4 years, assuming failure from through wall corrosion penetration. Assuming failure at 20% remaining wall, this corrosion rate indicates a remaining life of 17 years.



Figure 1: Overall view of pipe segment as-received.

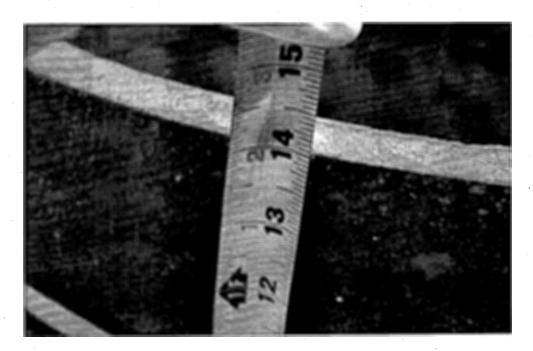


Figure 2:

The pipe segment was 14-inches long.

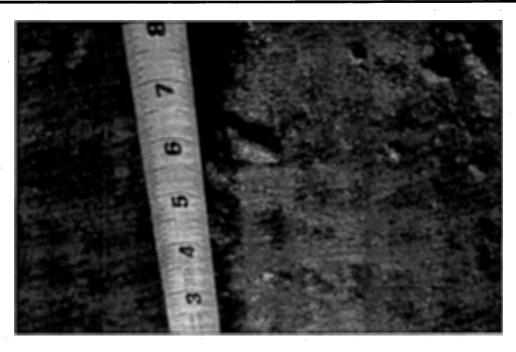
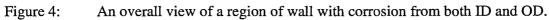
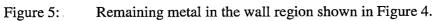


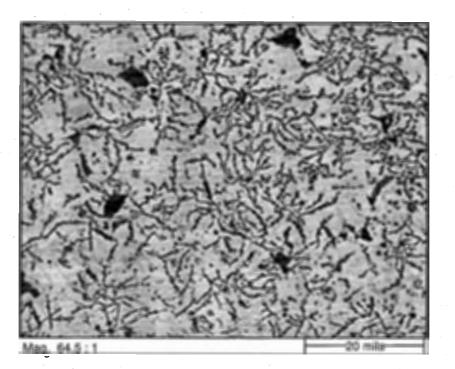
Figure 3: The pipe segment possessed many notable pits on its ID wall.





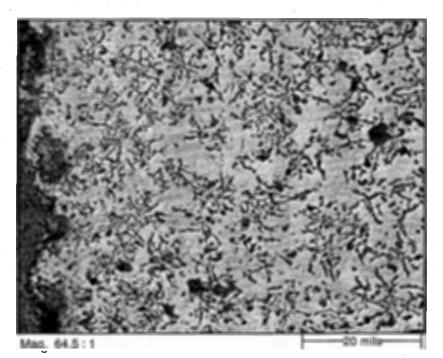






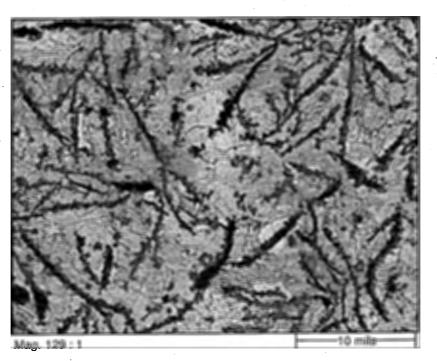


ID graphite form was Type A random flake. As-polished.



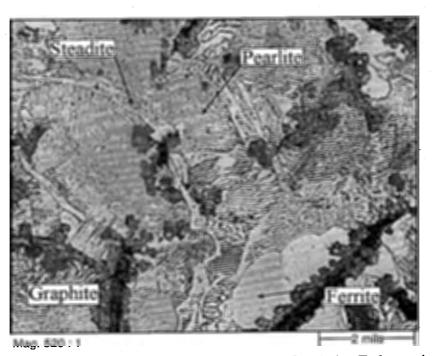


OD graphite form was predominantly Type A with some isolated tendency toward Type B rosette groupings. As-polished.



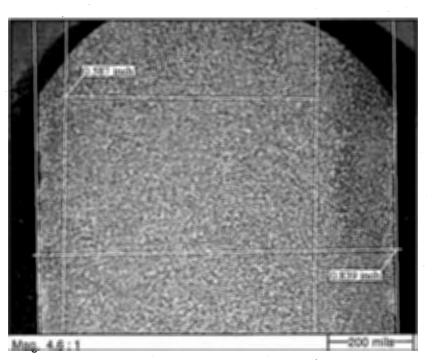


Overall view of predominantly pearlitic microstructure. Etchant: nital.





Detail of microstructure with phases labelled for clarity. Etchant: nital.





Less corroded region remaining wall. Etchant: nital.

MMR letters and reports apply to the second second

REPORT TO:

Tata & Howard

Marlborough, MA

Attn: Steve Daunais

Purchase Order No. 4586-09

Metallurgical Life Assessment of a 20-inch Pipe from Newton, MA

MMR Project No. 123531

September 7, 2018

From: Massachusetts Materials Research, Inc.

> Veda-Anne Ulčickas Senior Materials Engineer

MMR Project No. 123531 Page 1

BACKGROUND AND INVESTIGATION

Tata & Howard requested that Massachusetts Materials Research, Inc. (MMR) perform a metallurgical life assessment of a section of a 20-inch pipe from Newton, MA. This assessment was to include tensile testing, Talbot strip testing, ring crush testing, chemical analysis, hardness testing and metallurgical examination for microstructure, corrosion/remaining wall/remaining life. The pipe was installed in 1878, and the segment removed in 2018.

RESULTS

Visual Examination

The pipe segment is shown as-received in Figures 1 and 2. The 14-inch tall unlined segment contained numerous visible internal pits, many of which were too wide to be completely accommodated within a metallurgical mount and appeared deep for the pipe's nominal ⁷/₈-inch wall thickness, Figure 3.

Wall thickness was measured as-received with digital calipers at arbitrarily determined 12 o'clock, 3 o'clock, 6 o'clock and 9 o'clock positions, and the depths of several pits determined. These measurements are summarized in Table I.

Location	Wall Thickness/Depth, inch
12 o'clock	0.9235
3 o'clock	0.8465
6 o'clock	0.9470
9 o'clock	0.8720
ID Pits, Various	0.1265, 0.1365, 0.1185

 Table I

 Wall Thickness and ID Pitting Depth

Wall thickness measurements taken on as-received piping provide information on total wall thickness only, including corrosion product, not just remaining metal thickness within that wall. Indications of graphitic corrosion were present during the visual examination of this pipe, with some regions revealing as little as ¹/₄-inch remaining metallic wall, Figures 4 and 5. The wall thickness value used during calculation of remaining life for this pipe was assessed from a metallurgical section taken at a region of visibly less general corrosion and no visible pitting.

Overall, the initial visual examination revealed that this pipe appeared to be in poor condition due to graphitic corrosion and pitting along its ID wall surface. Note that no obvious pitting was noted on the OD wall.

MMR Project No. 123531 Page 2

Mechanical Testing

Tensile Testing

One longitudinally oriented ASTM flat tensile test specimen with a ¹/₂-inch gauge section width was machined from the pipe material. This testing revealed the ultimate strength (UTS) of the pipe metal was 5,950 PSI. This result is summarized below in Table II.

Talbot Strip Testing

Two longitudinally oriented ½-inch deep specimens for Talbot strip testing were machined from the pipe material remaining from ring testing. The modulus of rupture calculated per AWWA C106-75 was 19,620 PSI for one specimen and 17,714 PSI for the second specimen. This produces a mean modulus of rupture of 18,667 PSI. These results are summarized below in Table II.

Ring Crush Testing

Ring crush testing was performed on a 12-inch long section of the submitted pipe. This testing revealed a modulus of rupture of 25,647 PSI, calculated per AWWA C106-75. This result is summarized below in Table II.

Hardness Testing

Brinell (HB) hardness testing using a 10mm ball and a 3,000Kg load was performed on the pipe material. This testing indicated the pipe material hardness was HB 152. The result of this testing is summarized in Table II below, along with a conversion to the Rockwell B (HRB) scale for convenience.

Summary

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MMR Project No. 123531 Page 4

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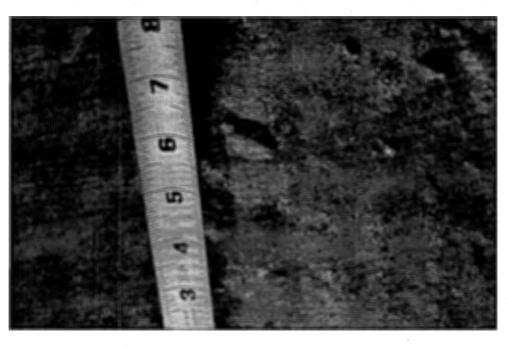
Figure 1:

Overall view of pipe segment as-received.



Figure 2:

The pipe segment was 14-inches long.





re 3: The pipe segment possessed many notable pits on its ID wall.



Figure 4: An overall view of a region of wall with corrosion from both ID and OD.





Remaining metal in the wall region shown in Figure 4.

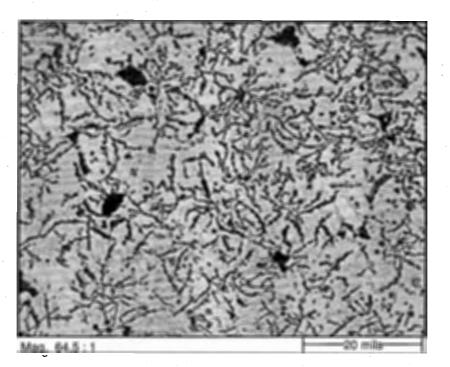
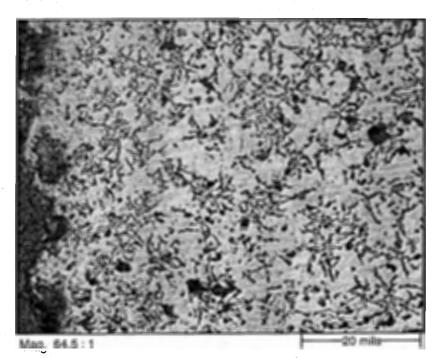
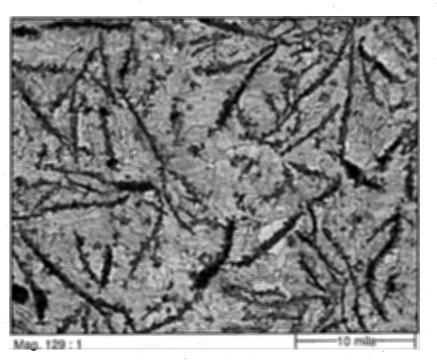


Figure 6: ID graphite form was Type A random flake. As-polished.





OD graphite form was predominantly Type A with some isolated tendency toward Type B rosette groupings. As-polished.





Overall view of predominantly pearlitic microstructure. Etchant: nital.

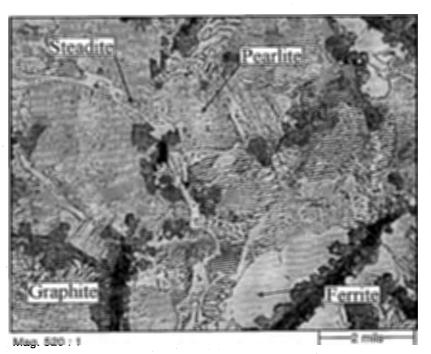
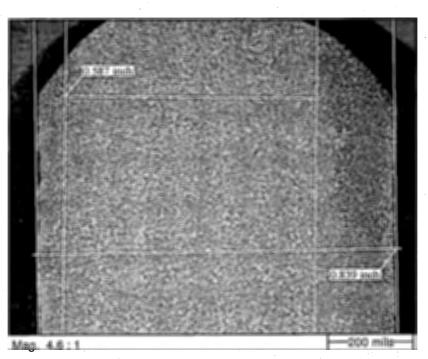


Figure 9:

Detail of microstructure with phases labelled for clarity. Etchant: nital.





Less corroded region remaining wall. Etchant: nital.

MMR letters and reports apply to the specific materials, products, or processes tested, examined, surveyed, inspected, or calculated; and are not necessarily indicative of the qualities of apparently identical or similar materials, products, or processes. The liability of Massachusetts Materials Research, Inc., with respect to the services rendered, shall be limited to the amount of the consideration paid for such services and not include any consequential damages.

New Main Same Trench Cost Estimate Needham Street Water Main Design Newton, Massachusetts

ŧ. 1

	Item	<u>Units</u>	Quantity		Unit Price		Cost
1	Mobilization	L.S.	1	\$	190,055.00	\$	190,055.00
2	Sawcut Bituminous Concrete Roadways	L.F.	7,200	\$	2.00	\$	14,400.00
_	Sawcut Reinforced Concrete Panels	L.F.	100	\$	10,00	\$	1,000.00
	General Excavation	NA	0			\$	-
	Test Pits	C.Y.	200		60.00	\$	12,000.00
	Excavation Below Grade	C.Y.	250		150.00	\$	37,500.00
<u> </u>	Rock Removal	C.Y.	200		75.00	\$	15,000.00
	Gravel Borrow	TON	2,500		1.00	\$	2,500.00
	Dense Graded Crushed Stone	TON	1,500		1.00	\$	1,500.00
	Sand for Water Service Pipe Bedding	TON	300		1.00	\$	300.00
	3/4" Fractured Crushed Stone	TON	75		25.00	\$	1,875.00
	Control Density Fill	C.Y.	100		115.00	\$	11,500.00
	Class B Cement Concrete for Encasement	C.Y.	1,500		1.00	\$	1,500.00
	Dust Control (Chemical Treatment)	L.B.	5,000		1.00	\$	5,000.00
	Reset Existing Curb	L.F.	2,000	_	20.00	\$	40,000.00
	Temporary 7" Pavement MassDOT Mill & Overlay	TON TON	1,500		200.00	\$ \$	300,000.00 225,000.00
٣	Massbol Mill & Overlay	TON	900	<u>.</u>	230.00	ф.	223,000.00
18	2" Bituminous Concrete Walks & Driveways (Patching Private Property)	S.Y.	150	\$	30.00	\$	4,500.00
10	3" Bituminous Concrete Walks & Driveways (Patching Public Property)	S.Y.	100	\$	50.00	\$	5,000.00
	4" Cement Concrete Walks with Lampblack	S.Y.	300		65.00	\$	19,500.00
	6" Cement Concrete Driveway Aprons with Lampblack	S.Y.	75		60.00	\$	4,500.00
	Cold Patch	TON	500		75.00	\$	37,500.00
	Regrade, Loam, & Seed (Restore Loam Borders and/or Private Yards)	S.Y.	550		5.00	\$	2,750.00
	Materials Testing	ALL.	1	\$	12,000.00	\$	12,000.00
	Miscellaneous Work Allowance (Engineers Discretionary Fund)	ALL,	1	\$	30,000.00	\$	30,000.00
	Furnish & Mount Safety & Specialty Signboards (Less the Post System)	S.F.	75		50.00	\$	3,750.00
27	Furnish, Establish, & Re-Establish the Post System for Mounted Signboards	S.F.	30	\$	25.00	\$	750.00
	Safety Controls for Construction Operations (Primary Portable Traffic Control				15 000 00	*	15 000 00
	Devices)	L.S.	L	\$ \$	15,000.00	\$ \$	15,000.00
	Allowance for Payment of Uniformed Police Officers Vehicle Loop Detector	ALL.	250		15.00	\$	160,000.00 3,750.00
30	Locate & Exercise Existing Water Main Gates to Determine Pre-Construction	<u>L.г.</u>	2.50	φ.	13.00		5,130,00
1.	serviceability	EA.	10	\$	500.00	\$	5,000.00
131	Locate & Exercise Existing Hydrants to Determine Pre-Construction	EA.	10	\$	500,00	<u>.</u>	5,000.00
22	Serviceability	EA.	5	\$	200.00	\$	1,000.00
	Access Pit, Removal, & Disposal of Water Gates or Hydrants that Lie Beyone	<u>60.</u>		φ	200.00	Ψ	1,000.00
		EA.	10	\$	250.00	\$	2,500,00
	4" D.I. Water Main	L.F.	100		60.00	\$	6,000.00
	6" D.I. Water Main	L.F.	500		80.00	\$	40,000.00
	8" D.I. Water Main	L.F.	500		120.00	\$	60,000.00
	12" D.I. Water Main	L.F.	500		150.00	\$	75,000.00
	16" D.I. Water Main	L.F.	500		200.00	\$	100,000.00
	20" D.I. Water Main	L.F.	5,100		210.00	\$	1,071,000.00
	6" Fire Service	NA	0		κ.	\$	
	6" Water Gate Valves with Sleeve, Box, and Cover	EA.	20	\$	2,500.00	\$	50,000.00
	8" Water Gate Valves with Sleeve, Box, and Cover	EA.		\$	5,000.00	\$	25,000.00
	12" Water Gate Valves with Sleeve, Box, and Cover	EA.	8	\$	7,500.00	\$	60,000.00
	20" Butterfly Gate Valves with Sleeve, Box, and Cover	EA.	23		10,000.00	\$	230,000.00
	6" Insertion Valve with Sleeve, Box and Cover	EA.	5		500.00	\$	2,500.00
	8" Insertion Valve with Sleeve, Box, and Cover	EA.		\$	750.00	\$	3,750.00
47	12" Insertion Valve with Sleeve, Box, and Cover	EA.	5	\$	900.00	\$	4,500.00

New Main Same Trench Cost Estimate Needham Street Water Main Design Newton, Massachusetts

48 6" Hydrant	EA.	10	\$	9,500.00	\$	95,000.00
49 Remove and Dispose or Stockpile Hydrant	EA.	10		9,500.00		and the second state of th
50 6" Bend	EA.	1		100.00	_	100.00
51 12" Bend	EA.	2		175.00	_	350.00
52 16" Bend	EA.			200.00	_	200.00
53 20" Bend	EA.	4	· ·	200.00	\$	900.00
54 20" x 16" Reducer	EA.	2		the state of the s	_	
55 12" x 8" Reducer	EA.	4	-	500.00	_	1,000.00
56 12" x 6" Reducer				300.00	_	1,200.00
57 6" x 4" Reducer	EA.	5		150.00	-	750.00
58 20" x 20" Mechanical Joint Tee		4		100.00	_	400.00
59 20" x 12" Mechanical Joint Tee	EA. EA.		\$	2,500.00	\$	2,500.00
		8		2,200.00	\$	17,600.00
60 20" x 8" Mechanical Joint Tee	EA.	5		1,800.00	\$	9,000.00
61 20" x 6" Mechanical Joint Tee	EA.	23	_	1,750.00	\$	40,250.00
62 16" x 16" Mechanical Joint Tee	EA.	1		1,700.00	\$	1,700.00
63 4" Megalug	EA.	15		5.00	\$	75.00
64 6" Megalug	EA.	120		7.00	\$	840.00
65 8" Megalug	EA.	50		9.00	\$	450.00
66 12" Megalug	EA.	45		11.00	\$	495.00
67 16" Megalug	EA.	15		13.00	\$	195.00
68 20" Megalug	EA.	160		15.00	\$	2,400.00
69 3/4" Diameter Threaded Steel Tie Rod Assembly (Complete in Place)	SET	25		20.00	\$	500.00
70 Class B Cement Concrete Anchorage and/or Thrust Block	EA.	55		1.00	\$	55.00
71 4" Mechanical Joint Solid Sleeve or Coupling	EA.	5	\$	80.00	\$	400.00
72 6" Mechanical Joint Solid Sleeve or Coupling	EA.	16	\$	100.00	\$	1,600.00
73 8" Mechanical Joint Solid Sleeve or Coupling	EA.	9	\$	115.00	\$	1,035.00
74 16" Mechanical Joint Solid Sleeve or Coupling	EA.	2	\$	175.00	\$	350.00
75 20" Mechanical Joint Solid Sleeve or Coupling	EA.	1	\$	200.00	\$	200.00
76 6" Cap	EA.	1	\$	180.00	\$	180.00
77 2" Preformed Pipe Insulation with Plastic Jacketing	L.F.	50	\$	50.00	\$	2,500.00
78 Test Pit to Determine Water Service Tubing Type	EA.	50	\$	5.00	\$	250.00
79 1" Copper Water Service Tubing	L.F.	400	\$	30.00	\$	12,000.00
80 1" Corporation	EA.	32	\$	1,400.00	\$	44,800.00
81 1" Curb Stop & Box	EA.	32	\$	800.00	\$	25,600.00
82 Nominal 5/8" -1" Water Service Coupling	EA.	32	\$	50.00	\$	1,600.00
83 2" Copper Water Service Tubing	L.F.	200	\$	40.00	\$	8,000.00
84 2" Corporation	EA.	14	\$	3,200.00	\$	44,800.00
85 2" Curb Stop & Box	EA.	14	\$	2,000.00	\$	28,000.00
86 2" Water Service Pipe Coupling	EA.	14	\$	100.00	\$	1,400.00
87 Temporary By-Pass Piping	L.S.	1	\$	612,000.00	\$	612,000.00
88 Pressure Test, Leakage Test, & Disinfection of Water Mains	L.S.	1	\$	25,000.00	\$	25,000.00
89 Water Sampling (by Laboratory Personanel)	ALL.	1	\$	15,000.00		15,000.00
90 Supply & Deliver Rust & Stain Remover as Required	CTN.	4	\$	25.00	_	100.00
91 Existing Drainage Repair (All Sizes)	L.F.	450		125.00	\$	56,250.00
92 Silt Sacks	EA.	205		50.00	\$	10,250.00
93 Existing Sewer Service Repair (All Sizes)	EA.	100		45.00	\$	4,500.00
94 Tree Protection	EA.	200		50.00	\$	10,000.00
95 Price Adjustment: Hot Mix Asphalt Mixtures	ALL.		\$	5,000.00	\$	5,000.00
96 Price Adjustment: Fuel	ALL.		\$	5,000.00	\$	5,000.00
			*	2,000.00	۴.	2,000.00
			Sub-	Total	¢	3,991,155.00
				Contingency	\$	598,673.25
			Tota	and the second sec		4,589,828.25
			Jord		<u> </u>	1,505,520,25

CITY OF NEWTON, MASSACHUSETTS PURCHASING DEPARTMENT COMPARISON OF BIDS

INVITATION #20-29 Chestnut Street Water Main Cleaning & Lining

Bid Opening: November 14, 2019 at 11:00 am Public Works/Engineering - James McGonagle

Awarded to:

Bidders	N. Granese & Sons Inc.	Umbro & Sons Construction Corp	Biszko Contracting Corp	Dewcon, Inc]
Chestnut Street Water Main Cleaning & Lining	\$1,793,706.90	\$1,847,000.47	\$2,193,849.68	\$2,293,087.73	

Department Head		· .		Date
	NOTES REGARD	ING SUBMITT	ED BIDS	

Chief Procurement Officer

Mayor or	her d	esignee
----------	-------	---------

Date

Date

Bidders	QTY	QTY N. Granese & Sons Inc.			& Sons ction Corp	Biszko Contracting Corp		
ITEM DESCRIPTION & BID PRICE		Unit Price	Annual	Unit Price	Annual	Unit Price	Annual	
- Mobilization & Demobilization	1	\$15,000.00	\$15,000.00	\$85,000.00	\$85,000.00	\$100,000,00	\$100,000.00	
- SAWCUT BITUMINOUS CONCRETE ROADWAYS	4600	\$0.01	\$46.00	\$5.00	\$23,000.00	\$1.00	\$4,600.00	
- GENERAL EXCAVATION	N/A	40.01	440.00		V/A		I 34,000.00 I∕A	
-TEST PITS	20	\$25.00	\$500.00	\$50.00	\$1,000.00	\$0.01	\$0.20	
-EXCAVATION BELOW GRADE	15	\$0.01	\$0.15	\$0.01	. \$0.15	\$0.01	\$0.15	
- ROCK REMOVAL	15	\$0.01	\$0.15	\$0.01	\$0.15	\$0.01	\$0.15	
- GRAVEL BORROW	400	\$0.01	\$4.00	\$30.00	\$12,000.00	\$0.01	\$4.00	
- DENSE GRADED CRUSHED STONE	200	\$0.01	\$2.00	\$50.00	\$10,000.00	\$0.01	\$2.00	
- SAND FOR WATER SERVICE PIPE BEDDING	250	\$0.01	\$2.50	\$50.00	\$12,500.00	\$0.01	\$2.50	
0 - ¾" FRACTURED CRUSHED STONE	15	\$0.01	\$0.15	\$75.00	\$1,125.00	\$0.01	\$0.15	
1 - CONTROLLED DENSITY FILL	<u>;</u> 50	\$138.00	\$6,900.00	\$25.00	\$1,250.00	\$0.01	\$0.50	
2 - CLASS B CEMENT CONCRETE FOR ENCASEMENT	250	\$0.01	\$2.50	\$0.01	\$2.50	\$0.01	\$2.50	
3 - DUST CONTROL (CHEMICAL TREATMENT)	1500	\$0.01	\$15.00	\$0.01	\$15.00	\$0.01	\$15.00	
4 – RESET EXISTING CURB	300	\$0.01	\$3.00	\$0.01	\$3.00	\$0.01	\$3.00	
5 - 1.5" Trench Milling and Overlay	275	\$225.00	\$61,875.00	\$50.00	\$13,750.00	\$100.00	\$27,500.00	
6 SEAM & CRACK SEALING (APPLIED AFTER THE PERMANANET PATCH OPERATIO)		\$75.00	\$11,250.00	\$7.00	\$1,050.00	\$0.01	\$1,50	
7 – 2" BITUMINOUS CONCRETE WALKS & DRIVEWAYS (PATCHING PRIVATE PROPER' 8 – 3" BIT CONCRETE WALKS & DRIVEWAY APRONS (PATCHING PUBLIC		\$31.00	\$1,550.00	\$20.00	\$1,000.00	\$0.01	\$0.50	
PROPERTY)	100	\$34.00	\$3,400.00	\$30.00 ·	\$3,000.00	\$0.01	\$1.00	
9-4" CEMENT CONCRETE WALKS WITH LAMPBLACK	160	\$100.00	\$16,000.00	\$40.00	\$6,400.00	\$40.00	\$6,400.00	
20 - 6" CEMENT CONCRETE DRIVEWAY APRONS WITH LAMPBLACK	20	\$200.00	\$4,000.00	\$60.00	\$1,200.00	\$40.00	\$800.00	
1 - 4" TEMPORARY TRENCH PAVEMENT	170	\$235.00	\$39,950.00	\$500.00	\$85,000.00	\$100.00	\$17,000.00	
2 - COLD PATCH	75	\$0.01	\$0.75	\$150.00	\$11,250.00	\$110.00	\$8,250.00	
3 - Regrade, Loam, & Seed (Restore Loam Borders and/or Private Yards)	250	\$5.00	\$1,250.00	\$5.00	\$1,250.00	\$0.01	\$2.50	
4- Materials Tested	1		00.00	\$12,	00.00	\$12,000.00		
5 – Miscellaneous Work Allowance (Engineers Discretionary Fund)	1		00.00	\$30,	00.00	\$30,	00.00	
26 – Furnish & Mount Safety & Specialty Signboards (Less the Post System)	50	\$50.00	\$2,500.00	\$50.00	\$2,500.00	\$0.01	\$0.50	
7-FURNISH, ESTABLISH & RE-ESTABLISH THE POST SYSTEM FOR MOUNTED	15	\$200.00	\$3,000.00	\$25.00	\$375.00	\$0.01	\$0.15	
SIGNBOARDS	1.5	\$200.00	\$3,000.00	\$23.00	4575.00	\$0.01	\$0.15	
28- SAFETY CONTROLS FOR CONSTRUCTION OPERATIONS (PRIMARILY PORTABLE TRAFFIC CONTROL DEVICES)	1	\$2,500.00	\$2,500.00	\$20,000.00	\$20,000.00	\$10,000.00	\$10,000.00	
29 – ALLOWANCE FOR PAYMENT OF UNIFORMED POLICE OFFICERS	1		000.00	\$75	00.00		000.00	
30 - VEHICLE LOOP DETECTOR	50	\$15.00	\$750.00	\$100.00	\$5,000.00	\$0.01		
I - LOCATE & EXERCISE EXISTING WATER MAIN GATES TO DETERMINE PRE-						1	\$0.50	
CONSTRUCTION SERVICIBILITY	15	\$500.00	\$7,500.00	\$500.00	\$7,500.00	\$0.01	\$0.15	
2 - LOCATE & EXERCISE EXISTING HYDRANTS TO DETERMINE PRE-CONSTRUCTION	15		A750.00	#250.00	63 7 53 63			
SERVICEABILITY	15	\$50.00	\$750.00	\$250.00	\$3,750.00	\$0.01	\$0.15	
33- Access Pit, Removal, & Disposal of Water Gates or Hydrants that Lie Beyond the Project Limit	· 5	\$250.00	\$1,250.00	\$250.00	\$1,250.00	\$0.01	\$0.05	
34-Access Pit, Removal, & Disposal of Obstructions Discovered During the Cleaning and Lining		6 0,50,60						
Operation	5	\$250.00	\$1,250.00	\$250.00	\$1,250.00	\$0.01	\$0.05	
35 - 6" D.I. Water Main (Class 52 Cement Lined & Dispose of Existing Pipe(s))	200	\$15.00	\$3,000.00	\$150.00	\$30,000.00	\$80.00	\$16,000.00	
6 - 8" D.I. Water Main (Class 52 Cement Lined & Dispose of Existing Pipe(s))	450	\$20.00	\$9,000.00	\$150.00	\$67,500.00	\$120.00	\$54,000,00	
7 - 10" D.I. Water Main (Class 52 Cement Lined & Dispose of Existing Pipe(s))	20	\$25.00	\$500.00	\$150.00	\$3,000.00	\$125.00	\$2,500.00	
8 - 12" D.I. Water Main (Class 52 Cement Lined & Dispose of Existing Pipe(s))	720	\$30.00	\$21,600.00	\$150.00	\$108,000.00	\$175.00	\$126,000.00	
 16" D.I. Water Main (Class 52 Cement Lined & Dispose of Existing Pipe(s)) 	50	\$35.00	\$1,750.00	\$200.00	\$10,000.00	\$200.00	\$10,000.00	
40- Clean and Line Existing 12" Pipe	4075	\$103.00	\$419,725.00	\$50.00	\$203,750.00	\$110.00	\$448,250.00	
41 – 6" Fire Service	n/a				N/A	1 2 1	I/A	
2 - 6" WATER GATE VALVE WITH SLEEVE, BOX & COVER	. 8	\$6,000.00	\$48,000.00	\$2,500.00	\$20,000.00	\$2,500.00	\$20,000.00	
13 - 8" WATER GATE VALVE WITH SLEEVE, BOX & COVER	17	\$6,000.00	\$102,000.00	\$5,000.00	\$85,000.00	\$5,000.00	\$85,000.00	
4 – 12" WATER GATE VALVE WITH SLEEVE, BOX & COVER	21	\$6,000.00	\$126,000.00	\$7,500.00	\$157,500.00	\$8,000.00	\$168,000.00	
5-16" Water Butterfly Valves with Sleeve, Box, and Cover	2	\$9,000.00	\$18,000.00	\$9,500.00	\$19,000.00	\$7,500.00	\$15,000.00	
6-6" Insertion Valve with sleeve, box & cover	5	\$0.01	\$0.05	\$500.00	\$2,500.00	\$0.01	\$0.05	
7-8" Insertion Valve with sleeve, box & cover	5	\$0.01	\$0.05	\$750.00	\$3,750.00	\$0.01	\$0.05	
8-12" Insertion Valve with sleeve, box & cover	5	\$0.01	\$0.05	\$900.00	\$4,500.00	\$0.01	\$0.05	
9- 6; Hydrant	8	\$8,000.00	\$64,000.00	\$9,500.00	\$76,000.00	\$15,000.00	\$120,000.00	
0 – REMOVE AND DISPOSE OR STOCKPILE HYDRANT	7.	\$500.00	\$3,500.00	\$2,000.00	\$14,000.00	\$0.01	\$0.07	
51 – 8° BEND 52 – 12" Bend	12	\$100.00	\$1,200.00	\$500.00	\$6,000.00	\$0.01	\$0.12	
52 – 12" Bend 53- 16" x 12" Cross	5	\$200.00	\$1,000.00	\$1,000.00	\$5,000.00	\$0.01	\$0.05	
53- 10" x 12" Cross 54- 12" x 8" Cross	1 2	\$900.00	\$900.00	\$2,000.00	\$2,000.00	\$0.01	\$0.01	
94-12 A 0 CI058	2	\$350.00	\$700.00	\$1,500.00	\$3,000.00	\$0.01	\$0.02	

ITEM DESCRIPTION & BID PRICE 55 - 16" X 10" REDUCER 56 - 8" X 6" REDUCER 57 - 12"x 12" MECHANICAL JOINT TEE 58 - 12"x 6" MECHANICAL JOINT TEE 59 - 12"x 6" MECHANICAL JOINT TEE 60 - 6" MECHANICAL JOINT TEE 60 - 6" MECHANICAL JOINT TEE 61 - 8" MEGALUG 61 - 8" MEGALUG 62 - 10" MEGALUG 63 - 12" MEGALUG 64 - 16" Megalug 65 - 3" DIAMETER THREADED STEEL TIE ROD ASSEMBLY (COMPLETE IN	1 1 11 2 12 8 76 108 6 198 11	Unit Price \$300.00 \$110.00 \$500.00 \$250.00 \$250.00 \$250.00 \$40.00 \$50.00 \$75.00 \$90.00 \$175.00	Annual \$300.00 \$110.00 \$5,500.00 \$5,500.00 \$3,000.00 \$2,000.00 \$3,040.00 \$5,400.00 \$450.00 \$17,820.00	Unit Price \$1,000.00 \$600.00 \$500.00 \$1,200.00 \$1,000.00 \$900.00 \$4.00 \$5.00	Annual \$1,000.00 \$600.00 \$5,500.00 \$2,400.00 \$12,000.00 \$7,200.00 \$304.00	Unit Price \$0.01 \$0.01 \$0.01 \$0.01 \$0.01 \$0.01 \$0.01	Annual \$0.01 \$0.01 \$0.11 \$0.02 \$0.12 \$0.08 \$0.76
55 - 16" X 10" REDUCER 55 - 12" X 10" REDUCER 56 - 8" X 6" REDUCER 57 - 12"x 12" MECHANICAL JOINT TEE 58 - 12"x 8" MECHANICAL JOINT TEE 59 - 12"x 6" MECHANICAL JOINT TEE 60 - 6" MEGALUG 61 - 8" MEGALUG 62 - 10" MEGALUG 63 - 12" MEGALUG 64 - 16" Megalug	1 11 2 12 8 76 108 6 198 11	\$300.00 \$110.00 \$250.00 \$250.00 \$250.00 \$40.00 \$50.00 \$75.00 \$90.00	\$300.00 \$110.00 \$5,500.00 \$500.00 \$3,000.00 \$2,000.00 \$3,040.00 \$5,400.00 \$450.00	\$1,000.00 \$600.00 \$500.00 \$1,200.00 \$1,000.00 \$900.00 \$4.00 \$5.00	\$1,000.00 \$600.00 \$5,500.00 \$2,400.00 \$12,000.00 \$7,200.00 \$304.00	\$0.01 \$0.01 \$0.01 \$0.01 \$0.01 \$0.01 \$0.01	\$0.01 \$0.01 \$0.11 \$0.02 \$0.12 \$0.08
55 - 12" X 10" REDUCER 56 - 8" X 6" REDUCER 57 - 12"x 12" MECHANICAL JOINT TEE 58 - 12"x 8" MECHANICAL JOINT TEE 59 - 12"x 6" MECHANICAL JOINT TEE 60 - 6" MEGALUG 61 - 8" MEGALUG 62 - 10" MEGALUG 63 - 12" MEGALUG 64 - 16" Megalug	1 11 2 12 8 76 108 6 198 11	\$110.00 \$500.00 \$250.00 \$250.00 \$250.00 \$40.00 \$50.00 \$75.00 \$90.00	\$110.00 \$5,500.00 \$500.00 \$2,000.00 \$3,040.00 \$3,040.00 \$5,400.00 \$450.00	\$600.00 \$500.00 \$1,200.00 \$1,000.00 \$900.00 \$4.00 \$5.00	\$600.00 \$5,500.00 \$2,400.00 \$12,000.00 \$7,200.00 \$304.00	\$0.01 \$0.01 \$0.01 \$0.01 \$0.01	\$0.01 \$0.11 \$0.02 \$0.12 \$0.08
56 - 8" X 6" REDUCER 57 - 12"x 12" MECHANICAL JOINT TEE 58 - 12"x 8" MECHANICAL JOINT TEE 59 - 12"x 6" MECHANICAL JOINT TEE 60 - 6" MEGALUG 61 - 8" MEGALUG 62 - 10" MEGALUG 63 - 12" MEGALUG 64 - 16" Megalug	11 2 12 8 76 108 6 198 11	\$500.00 \$250.00 \$250.00 \$40.00 \$50.00 \$75.00 \$90.00	\$5,500.00 \$500.00 \$3,000.00 \$2,000.00 \$3,040.00 \$5,400.00 \$450.00	\$500.00 \$1,200.00 \$1,000.00 \$900.00 \$4.00 \$5.00	\$5,500.00 \$2,400.00 \$12,000.00 \$7,200.00 \$304.00	\$0.01 \$0.01 \$0.01 \$0.01	\$0.11 \$0.02 \$0.12 \$0.08
57 – 12"x 12" MECHANICAL JOINT TEE 58 – 12"x 8" MECHANICAL JOINT TEE 59 – 12"x 6" MECHANICAL JOINT TEE 60 – 6" MEGALUG 61 – 8" MEGALUG 62 – 10" MEGALUG 63 – 12" MEGALUG 64 – 16" Megalug	2 12 8 76 108 6 198 11	\$250.00 \$250.00 \$40.00 \$50.00 \$75.00 \$90.00	\$500.00 \$3,000.00 \$2,000.00 \$3,040.00 \$5,400.00 \$450.00	\$1,200.00 \$1,000.00 \$900.00 \$4.00 \$5.00	\$2,400.00 \$12,000.00 \$7,200.00 \$304.00	\$0.01 \$0.01 \$0.01	\$0.02 \$0.12 \$0.08
58 – 12"x 8" MECHANICAL JOINT TEE 59 – 12"x 6" MECHANICAL JOINT TEE 60 – 6" MEGALUG 61 – 8" MEGALUG 62 – 10" MEGALUG 63 – 12" MEGALUG 64 – 16" Megalug	12 8 76 108 6 198 11	\$250.00 \$250.00 \$40.00 \$50.00 \$75.00 \$90.00	\$3,000.00 \$2,000.00 \$3,040.00 \$5,400.00 \$450.00	\$1,000.00 \$900.00 \$4.00 \$5.00	\$12,000.00 \$7,200.00 \$304.00	\$0.01 \$0.01	\$0.12 \$0.08
59 – 12"x 6" MECHANICAL JOINT TEE 60 – 6" MEGALUG 61 – 8" MEGALUG 62 – 10" MEGALUG 63 – 12" MEGALUG 64 – 16" Megalug	8 76 108 6 198 11	\$250.00 \$40.00 \$50.00 \$75.00 \$90.00	\$2,000.00 \$3,040.00 \$5,400.00 \$450.00	\$900.00 \$4.00 \$5.00	\$7,200.00 \$304.00	\$0.01	\$0.08
60 - 6" MEGALUG 61 - 8" MEGALUG 62 - 10" MEGALUG 63 - 12" MEGALUG 64 - 16" Megalug	76 108 6 198 11	\$40.00 \$50.00 \$75.00 \$90.00	\$3,040.00 \$5,400.00 \$450.00	\$4.00 \$5.00	\$304.00		
61 – 8" MEGALUG 62 – 10" MEGALUG 63 – 12" MEGALUG 64 – 16" Megalug	108 6 198 11	\$50.00 \$75.00 \$90.00	\$5,400.00 \$450.00	\$5.00		. \$0.01	
62 – 10" MEGALUG 63 – 12" MEGALUG 64 – 16" Megalug	6 198 11	\$75.00 \$90.00	\$450.00			40.04	
63 – 12" MEGALUG 64 – 16" Megalug	198 11	\$90.00			•••••	\$0.01	\$1.08
64 – 16" Megalug	11			\$8.00	\$48.00	\$0.01	\$0.06
				\$12.00	\$2,376.00	\$0.01	\$1.98
		\$175.00	\$1,925.00	\$18.00	\$198.00	\$0.01	\$0.11
05- % DIAMETER THREADED STEEL TIE ROD ASSEMBLY (COMPLETE IN PLACE)	215	\$40.00	\$8,600.00	\$20.00	\$4,300.00	\$0.01	\$2.15
66 - CLASS B CEMENT CONCRETE ANCHORAGE AND/OR THRUST BLOCK	25	\$0.01	\$0.25	\$40.00	\$1,000.00	\$0.01	\$0.25
67 – 6" MECHANICAL JOINT SOLID SLEEVE OR COUPLING	11	\$500.00	\$5,500.00	\$600.00	\$6,600.00	\$0.01	\$0.11
68 – 8" MECHANICAL JOINT SOLID SLEEVE OR COUPLING	6	\$110.00	\$660.00	\$800.00	\$4,800.00	\$0.01	\$0.06
69 – 10" MECHANICAL JOINT SOLID SLEEVE OR COUPLING	2	\$160.00	\$320.00	\$900.00	\$1,800.00	\$0.01	\$0.02
70 – 12" MECHANICAL JOINT SOLID SLEEVE OR COUPLING	41	\$190.00	\$7,790.00	\$1,100.00	\$45,100.00	\$0.01	\$0.41
71 – 16" MECHANICAL JOINT SOLID SLEEVE OR COUPLING	1	\$500.00	\$500.00	\$1,200.00	\$1,200.00	\$0.01	\$0.01
72 6" CAP	9	\$180.00	\$1,620.00	\$300.00	\$2,700.00	\$0.01	\$0.09
73 – 8" CAP	1	\$230.00	\$230.00	\$400.00	\$400.00	\$0.01	\$0.01
74 – 12" CAP	1	\$540.00	· \$540.00	\$500.00	\$500.00	\$0.01	\$0.01
75 - 2" Preferred pipe Insulation with Plastic Jacketing	25	\$50.00	\$1,250.00	\$0.01	\$0.25	\$0.01	\$0.25
76 - Test Pit to Determine Water Service Tubing Type	30	\$50.00	\$1,500.00	\$0.01	\$0.30	\$0.01	\$0.30
77 – 1" COPPER WATER SERVICE TUBING	1250	\$30.00	\$37,500.00	\$5.00	\$6,250.00	\$10.00	\$12,500.00
78 - 1" CORPORATION	67	\$1,250.00	\$83,750.00	\$1,250.00	\$83,750.00	\$1,500.00	\$100,500.00
79 – 1" CURB STOP & BOX	62 67	\$500.00	\$31,000.00	\$100.00	\$6,200.00	\$1,000.00	\$62,000.00
80 - NOMINAL 5/8" - 1" WATER SERVICE Fitting	- 67 - 10	.\$25.00 \$250.00	\$1,675.00	\$25.00 \$25.00	\$1,675.00 \$250.00	\$0.01 \$0.01	\$0.67 \$0.10
81–1.25" Water Service Pipe Fitting 82–1.5" COPPER WATER SERVICE TUBING	200	\$35.00	\$2,500.00 \$7,000.00	\$15.00	\$250.00	\$10.00	\$2,000.00
83 – 1.5" COPPER WATER SERVICE TOBING	200	\$3.200.00	\$35,200.00	\$1,500.00	\$16,500.00	\$1,500.00	\$16,500.00
84 - 1.5" CURB STOP & BOX	9	\$500.00	\$4,500.00	\$250.00	\$2,250.00	\$1,000.00	\$9,000.00
85-1.5" Water Service Pipe Fitting	1	\$100.00	\$100.00	\$100.00	\$100.00	\$0.01	\$9,000.00
86- TEMPORARY BY-PASS PIPING		\$350.000.00	\$350,000.00	\$306.003.00	\$306,003.00	\$600,000.00	\$600.000.00
87 – PRESSURE TEST, LEAKAGE TEST & DISINFECTION OF WATER MAIN(S)	1 i	\$1,500.00	\$1,500.00	\$15,000.00	\$15,000.00	\$10,000.00	\$10,000.00
88 - Water Sampling (by Laboratory Personnel)	i i		000.00		00.00		00.00
89 - Supply & Deliver Rust & Stain Remover as Required	i	\$250.00	\$250.00	\$24.82	\$24.82	\$0.01	\$0.01
90- Cleaning and Lining Pits	20	\$0.01	\$0.20	\$0.01	\$0.20	\$0.01	\$0.20
91- Additional Cleaning and Lining Pits Beyond the Scope of Work	5	\$0.01	\$0.05	\$0.01	\$0.05	\$0.01	\$0.05
92– Mismarked Main (Cleaning and Lining Trenches Only)	5	\$0.01	\$0.05	\$0.01	\$0.05	\$0.01	\$0.05
93- Existing Drainage Repair (All Sizes)	150	\$125.00	\$18,750.00	\$150.00	\$22,500,00	\$0.01	\$1.50
94– Silt Sacks	56	\$50.00	\$2,800.00	\$85.00	\$4,760.00	\$0.01	\$0.56
95 – Existing Sewer Service Repair (All Sizes)	50	\$50.00	\$2,500.00	\$45.00	\$2,250.00	\$0.01	\$0.50
96 – Tree Protection	40	\$50.00	\$2,000.00	\$50.00	\$2,000.00	\$0.01	\$0.40
97 – Price Adjustment: Hot Mix Asphalt Mixtures	- 40		00.00		00.00		30.40 00.00
98 – Price Adjustment: Fuel	1	\$5,000.00		\$5,000.00		\$5,000.00	
Total Bid Items		\$1,793	3,706.90	\$1,847	,000.47	\$2,193	.849.68

RECEIVED CITY COUNCIL CITY OF NEWTON

2020 FEB 26 AM 10: 53 DOCKET REQUEST FORM

DEADLINE NOTICE: Council require items to be docketed with the Clerk of the Council <u>NO LATER</u> <u>THAN 7:45 P.M. TUESDAY</u>, PRIOR TO THE MONDAY FULL COUNCIL MEETING in order to be voted to be assigned to Committee(s) that evening.

To: Clerk of the City Council

Date: _____ February 25, 2020

From (Docketer): Lara Kritzer, for Community Preservation Committee

Address/phone/email: Planning & Development Dept., Newton City Hall, lkritzer@newtonma.gov,

617-796-1144

2.

3.

4.

Additional sponsors:

1. Please docket the following item (edit if necessary):

The COMMUNITY PRESERVATION COMMITTEE recommending that \$1,105,000 in CPA funding for the support of Community Housing be awarded to the Newton Housing Authority for the Acquisition of the CAN-DO Housing Portfolio.

The purpose and intended outcome of this item is:

____ Fact-finding & discussion

- ✓_Appropriation, transfer,
 - **expenditure, or bond authorization** Special permit, site plan approval,
 - _ special perint, she plan approval,
 - zone change (public hearing required)

- Ordinance change
 Resolution
 License or renewal
 Appointment confirmation
 Other
- I recommend that this item be assigned to the following committees:

Programs & Services		_✓_Finance	Real Property
Zoning & Planning		Public Safety	 Special Committee
Public Facilities		✓ Land Use	No Opinion
Post Audit & Oversight	. •		

This item should be taken up in committee:

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

\checkmark 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 below
- ____ Following public hearing

PLEASE FILL OUT REVERSE SIDE

I estimate that consideration of this item will require approximately:

____ One half hour or less

____ More than one hour

____ More than one meeting

 \checkmark Up to one hour An entire meeting

Extended deliberation by subcommittee

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

Project sponsor

Lara Kritzer, CPA Program Manager, x1144, <u>lkritzer@newtonma.gov</u>

Barney Heath, Director, Planning & Development x1131, <u>bheath@newtonma.gov</u> Amy Zarechian, Executive Director, Newton Housing Authority, 617-552-5501 azarechian@newtonhousing.org

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 *:

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

CPC funding recommendation, with proposal and supporting documents.

(*Note to docketer: Please provide any additional materials beyond the foregoing to the Clerk's office by 2 p.m. on Thursday 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. Materials not submitted 48 hours in advance of a meeting to discuss an item will require a vote to suspend the rules the night of the Committee's 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,

 \checkmark and inform me of the docket item number.

Email contact preferred: lkritzer@newtonma.gov

My daytime phone number is: 617-796-1144

11. ____ I would like the Clerk's office to notify me when the Chairman has scheduled the item for discussion.

Thank you.

Lara Krítzer

Signature of person docketing the item

[Please retain a copy for your own records]

5.

· 6.

City of Newton



City of Newton, Massachusetts

Department of Planning and Development 1000 Commonwealth Avenue Newton, Massachusetts 02459 **165-20** Telephone (617) 796-1120 Telefax (617) 796-1142 TDD/TTY (617) 796-1089 www.newtonma.gov

Barney S. Heath Director

Ruthanne Fuller Mayor

Community Preservation Committee Funding Recommendation for Newton Housing Authority Acquisition of CAN-DO Housing Portfolio

- Date: March 5, 2020
- From: Community Preservation Committee
 - To: The Honorable City Council
 - **Cc:** Her Honor Mayor Ruthanne Fuller

PROJECT GOALS & ELIGIBILITY This project provides funding for the Newton Housing Authority's acquisition of 33 affordable housing units currently owned by the Citizens for Affordable Housing in Newton Development Organization (CAN-DO). These units serve low-income households located in 12 scattered sites projects throughout Newton. This project will preserve and stabilize this important portfolio by reducing its bank debt and addressing its immediate capital needs. As a result, the portfolio's rental income, which is limited by its permanent income restrictions, will be able to cover both future capital needs and resident services. The Newton Housing Authority has extensive experience in managing affordable housing units and their proposal plans for both a reserve fund for future capital needs as well as additional staffing to provide necessary services for its residents. The individuals and families served by these units are identified as priority populations in the City's FY16-FY20 Consolidated Plan. This project is CPA-eligible as the support of affordable housing.

RECOMMENDED FUNDING On February 10, 2020, the Community Preservation Committee voted 8-0 (member Robert Maloney absent) to recommend appropriating \$1,105,000 from the Community Preservation Fund's current reserve and fund balance for housing, and as needed from its FY20 unrestricted reserve, to the control of the Planning & Development Department for a grant to the Newton Housing Authority for the purpose of acquiring the CAN-DO housing portfolio and any other related expenses as stated below:

USES of FUNDS				
Bank debt repayments, financing fees (new debt, CPA, CDBG)	\$1,929,148			
Reserves (replacement \$500,000, operating \$250,000)	\$750,000			
Capital Improvements (CDBG)	\$551,352			
Services & Fees (legal, recording, development consultant, appraisal)	\$224,500			
TOTAL USES	\$3,455,000			
SOURCES of FUNDS				
Newton Housing Authority (contribution)	\$250,000			
Village Bank (\$250,000 grant + new/refinanced debt)	\$900,000			
СРА	\$1,105,000			
CDBG	\$1,200,000			
TOTAL SOURCES	\$3,455,000			

website www.newtonma.gov/cpa

contact Lara Kritzer, Community Preservation Program Manager email <u>lkritzer@newtonma.gov</u> phone 617.796.1144

165-20

SPECIAL ISSUES CONSIDERED BY THE CPC

During the CPC's public hearing on this project, members unanimously expressed their support for the NHA's proposal and project goals. Newton has a critical need for affordable housing and the CPC's recommendation considered both the importance of preserving the City's existing affordable housing inventory as well as the fact that these units serve some of Newton's most vulnerable households. Members agreed that the NHA had worked hard with the Planning staff to develop a well thought out proposal to integrate the new units into their existing housing portfolio that takes into consideration both the maintenance needs of these properties and the services required by their residents. The project has received numerous letters of support from Newton affordable housing organizations.

The CPC also recognized that this project is well leveraged with only 32% of the overall project funding requested from CPA funds. The rest of the funding is divided between CDBG funding (35%), a new loan from The Village Bank (TVB) (19%), and funding grants from The Village Bank and NHA (14%). The CPC also noted that the units already have affordable housing restrictions in place.

ADDITIONAL RECOMMENDATIONS (funding conditions)

- 1. The CPC assumes all recommended funds will be appropriated, and the transfer of the portfolio to the Housing Authority will be completed, within twelve (12) months after the date of this recommendation. If this deadline cannot be met, the Housing Authority should submit a written request to the CPC to extend that deadline.
- 2. The release of CPA funds for the project will be governed by a detailed grant agreement that includes but is not limited to conditions which are generally agreed upon and required for a CPA-funded housing project including the initial release of funds upon the submission of required documentation and the direct payment of funds to the bank(s) for payment of past debt.
- **3.** Any CPA funds appropriated but not used for the purposes stated herein should be returned to the Newton Community Preservation Fund.

KEY OUTCOMES

The Community Preservation Committee will evaluate this project based on its success in using Newton CPA funds to preserve CAN-DO's income-restricted housing portfolio as well as the supportive services and capital needs improvements described in the Housing Authority's proposal, which will rely on non-CPA funding sources. The timeliness of the project and the Housing Authority's ability to meet the completion deadline for the project will also be considered.

ATTACHMENTS

(delivered to the clerks of the Land Use Committee and Finance Committee)

- Revised Proposal letter and selected attachments submitted to the CPC on January 29, 2020
- Planning Department's Memorandum submitted for the February 11 joint Planning Board/CPC Meeting
- Presentation from February 11, 2020 CPC public hearing
- Copy of CPC project webpage, with links to additional information not attached to this recommendation: http://www.newtonma.gov/gov/planning/cpa/projects/housing_authority.asp#NHA-CAN-DO-portfolio

165-20



CPC staff note: This updated 29 January 2020 submission includes: cover letter, bank term sheet, and updated project financial tables. All other attachments submitted 2 January 2020 remain valid.

NEWTON HOUSING AUTHORITY 82 Lincoln Street Newton Highlands, Massachusetts 02461

Telephone:(617) 552-5501Telecopier:(617) 964-8387TD:(617) 332-3802

Amy Zarechian Executive Director

January 29, 2020

Community Preservation Committee Planning and Development Board C/o Amanda Berman, Director of Housing and Community Development Planning and Development Department City of Newton 1000 Commonwealth Avenue Newton, MA 02459

Re: NHA Acquisition of CAN-DO Portfolio

Dear Ms. Berman,

Following its presentation to the Newton Housing Partnership on January 7, 2020, the Newton Housing Authority (NHA) has worked closely with the City of Newton's Department of Planning and Development staff and their consultant to address questions raised by the Newton Housing Partnership regarding the NHA's proposed acquisition of the 33-unit CAN-DO (Citizens for Affordable Housing in Newton Development Organization) real estate portfolio.

Through this collaborative effort, the NHA has made the following changes to its proposal and requests that this current version replace the full proposal previously submitted.

- NHA will acquire the CAN-DO portfolio in a transaction in which the existing private debt from the Village Bank, Cambridge Savings Bank, and the Boston Community Loan Fund will be paid down, and the NHA will assume all deferred financing and related affordable housing use agreements from various public agencies, including the City and CPA. No cash consideration will be paid to any party for the acquisition.
- At the suggestion of the City's Department of Planning and Development, the NHA has increased its request for CDBG funds to \$1,200,000 to address immediate capital needs and fund a portion of the elimination of existing private debt, allowing for a decrease in the amount of new private debt from the Village Bank to \$650,000, which will also fund a portion of the private debt elimination.
- In addition, the request for CPA funds to be used to fund the remaining portion of the private debt elimination has been reduced to \$1,105,000.
- In response to comments from the Newton Housing Partnership regarding potential under estimation of construction costs and service needs for the portfolio, the new proposal increases the capital budget by 15% and the supportive services budget to \$1,000 per unit per year.
- The new proposal also allows for an increase in the annual contribution to the replacement reserve to \$2,000 per unit per year from operating income and eliminates the need for proceeds from the new Village Bank debt to be placed into the replacement reserve.
- The new Village Bank debt will be used to create a \$250,000 operating reserve, as well as cover the predevelopment and closing costs.
- The Village Bank's generous \$250,000 grant and the NHA's own contribution of \$250,000 will continue to be placed into the replacement reserve in annual \$25,000 installments over a period of ten years.

The NHA is confident that this revised proposal responds to the concerns of the Newton Housing Partnership and the Department of Planning and Development, provides sufficient funds to address current and future capital needs and reduce debt, and ensures sustainable management of this important portfolio.

We look forward to meeting with the Community Preservation Committee and Planning and Development Board to discuss our proposal further.

Thank you for all your help through this process.

Sincerely,

Amy Zarechian

Amy Zarechian Executive Director Newton Housing Authority 82 Lincoln Street Newton Highlands, MA 02461



January 27, 2020

Amy Zarechian Executive Director Newton Housing Authority 82 Lincoln Street Newton, MA 02461

Amy:

I am pleased to submit this Term Sheet for your consideration. The Village Bank (the "Bank") will provide Newton Housing Authority with financing and a grant for the CAN-DO properties as detailed below.

1) Borrower:

Newton Housing Authority

2) Purpose:

To provide partial financing for the purchase of the CAN-DO properties.

3) Loan Amount:

\$650,000

4) Terms:

Thirty (30) year maturity and thirty (30) year amortization

5) Interest Rates:

Fixed at 4.75%

6) Fees:

Whether or not the Loans close, the Borrower is responsible for paying all closing costs, including, but not limited to, legal, appraisal, recording, flood certification and tax service fees incurred by the Bank.







7) Repayment:

The loan will amortize over thirty (30) years. Monthly principal and interest payments will be approximately \$3,418. Payments will be made in arrears and interest on the unpaid balance shall be computed on a 365/360 basis; that is, by applying the ratio of the annual interest rate over a year of 360 days, multiplied by the outstanding principal balance, multiplied by the actual number of days the principal balance is outstanding.

8) Security:

First real estate mortgage and assignment of rents on:

12-13 Cambria Road, Newton
18-20 Cambria Road, Newton
163 Jackson Road, Newton
20-22 Falmouth Road, Newton
54 Eddy Street, Newton
2148 Commonwealth Avenue, Newton a/k/a Veterans House

9) Guarantors:

None

10) Depository Account(s):

The Borrower must maintain its main operating checking account(s) at the Bank.

11) Prepayment

There is no prepayment penalty

12) Grant:

The Bank will provide Newton Housing Authority with a \$250,000 grant payable \$25,000 annually for ten years. The first grant payment will be made in 2020. The use of the grant will be restricted to funding replacement reserves for the properties securing the subject loans.

Sincerely

Andrew Franklin Senior Vice President



320 Needham Street • Suite 200 • Newton, MA 02464 (617) 527-6090 • village-bank.com



		January 2020					
NHA Acceptance of CAN-DO Portfolio, CPA/		DNS					_
SOURCES FC	OR USES						_
Can-Do Developments		25-01-20					
SOURCES							
NHA Grant over 10 Years	250,000	CAN D	O DEVELO	PMENTS			
TVB Grant over 10 Years	250,000						
New TVB Loan	650,000 ¹						
City CPA	1,105,000						
City CDBG	1,200,000	\$ 250,00	0	NHA Gra	nt over 10	Voarc	
TOTAL SOURCES	3,455,000	\$ 2	50,000		int over 10	Tears	
USES		\$ 1,200,000		TVB Gran	nt over 10	Years	
TVB Loan Repayment	1,498,784		\$ 650,000	New TVB	3 Loan		
CSB Loan Repayment	343,486						
BCLF Loan Repayment	80,378			City CPA			
Replacement Reserve	500,000						
Operating Reserve	250,000	\$ 1,105,000		City CDB	G		
Capital Improvements	551,352 ²						
Financing Fees (1%)	6,500						
Legal Fees	150,000						
Title & Recording	40,000						
Development Consultant	30,000						
Appraisal	4,500						
TOTAL USES	3,455,000						+
SURPLUS / (DEFICIT)	0						
¹ New TVB Debt at 4.75%, 30 year amortization.							
² To fund capital needs in 2020.							

	U	SES FOR S	OURCES				
Can-Do Developments						25-01-20	
			New TVB	City	City CDBG	TOTAL	
SOURCES	NHA	TVB	Loan	СРА		SOURCES	
TVB Loan Repayment			169,000	681,136	648,648	1,498,784	
CSB Loan Repayment				343,486		343,486	
BCLF Loan Repayment				80,378		80,378	
Replacement Reserve	250,000	250,000				500,000	
Operating Reserve			250,000			250,000	
Capital Improvements					551,352	551,352	
Financing Fees (1%)			6,500			6,500	
Legal Fees			150,000			150,000	
Title & Recording			40,000			40,000	
Development Consultant			30,000			30,000	
Appraisal			4,500			4,500	
USES	250,000	250,000	650,000	1,105,000	1,200,000	3,455,000	

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U	SES FOR S	OURCES			
					25-01-20
		New TVB	City	City CDBG	TOTAL
NHA	TVB	Loan	СРА		SOURCES
		169,000	681,136	648,648	1,498,784
			343,486		343,486
			80,378		80,378
250,000	250,000				500,000
		250,000			250,000
				551,352	551,352
		6,500			6,500
		150,000			150,000
		40,000			40,000
		30,000			30,000
		4,500			4,500
250,000	250,000	650,000	1,105,000	1,200,000	3,455,000
	NHA 250,000	NHA TVB 250,000 250,000 250,000 250,000 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NHA TVB Loan Image: I	Image: Normal State Image: New TVB City NHA TVB Loan CPA Image: New TVB City 169,000 681,136 Image: New TVB Image: New TVB Image: New TVB Image: New TVB Image: New TVB Image: New TVB Image: New TVB City Image: New TVB Image: New TVB Image: New TVB City Image: New TVB Image: New TVB Image: New TVB City Image: New TVB Image: New TVB Image: New TVB Image: New TVB Image: New TVB Image: New TVB Image: New TVB Image: New TVB Image: New TVB Image: New TVB Image: New TVB Image: New TVB Image: New TVB Image: New TVB Image: New TVB Image: New TVB Image: New TVB Image: New TVB Image: New TVB Image: New TVB Image: New TVB Image: New TVB Image: New TVB Image: New TVB Image: New TVB Image: New TVB Image: New TVB Image: New TVB Image: New TVB Image: New TVB Image: New TVB Image: New TVB	Image: Normal State Image: New TVB City City CDBG NHA TVB Loan CPA Image: New TVB City City CDBG NHA TVB Loan CPA Image: New TVB City City CDBG Image: NHA TVB Loan CPA Image: New TVB City City CDBG Image: NHA TVB Loan CPA Image: New TVB City City CDBG Image: NHA TVB Loan CPA Image: New TVB City City CDBG Image: NHA TVB Image: New TVB City City CDBG Image: New TVB Image: New

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SURPLUS / (DEFICIT)

			CAN DO v	s. NHA OPER	ATING					25-01-20
		CAN	N DO			r	NHA			
	Audit	Per	Unaudited	Per	NHA	NHA	NHA	Per	Footnotes	Higher of
Can-Do Developments	<u>2017</u>	33 Units	<u>2018</u>	<u>33 Units</u>	<u>12-31-18</u>	<u>57 Units</u>	with Can Do	<u>90 Units</u>	(p. 2)	Can Do & NHA
Rental Income										
Rental Subsidy	555,933	16,846	580,915	17,603	-	-	-	-		-
Vacancies & Bad Debt	(15,068)	(457)	(1,744)	(53)	-	-	-	-		-
Laundry & Miscellaneous	3,822	116	3,905	118	-	-	-	-		-
Rental Income	544,687	16,506	583,076	17,669	-	-	-	-		-
Rental Expenses										
Salaries	21,045	638	62,797	1,903	-	-	-	-		-
Taxes & Benefits	5,789	175	4,930	149	-	-	-	-		-
Consultants	19,788	600	-	-	-	-	-	-		-
Office Rent	-	-	-	-	-	-	-	-		-
Condo Fees	8,971	272	5,900	179	-	-	-	-		-
Advertising & Marketing	-	-	400	12	-	-	-	-		-
Telephone & Internet	613	19	-	-	-	-	-	-		-
Audit & Payroll Services	-	-	-	-	-	-	-	-		-
Filing Fees	-	-	500	15	-	-	-	-		-
Bank Charges	-	-	306	9	-	-	-	-		-
Supplies	-	-	87	3	-	-	-	-		-
Miscellaneous	914	28	137	4	-	-	-	-		-
Subtotal Administrative	57,120	1,731	75,056	2,274	233,176	4,091	308,176	3,424	1	3,424
Maintenance	128,546	3,895	71,987	2,181	-	-	-	-		-
Janitorial	-	-	-	-	-	-	-	-		-
Repairs	-	-	50,251	1,523	-	-	-	-		-
Landscaping & Snow Removal	-	-	-	-	-	-	-	-		-
Extermination	-	-	150	5	-	-	-	-		-
Vehicle Expense	-	-	-	-	-	-	-	-		-
Subtotal Maintenance	128,546	3,895	122,388	3,709	158,514	2,781	277,714	3,316	2	3,709
Supportive Services	5,544	168	2,970	90	-	-	33,000	1,000	3	1,000
Security	-	-	-	-	-	-	-	-		-
Utilities	61,957	1,877	75,580	2,290	113,849	1,997	179,762	1,997	4	2,290
	71,379	2,163	66,927	2,028	-	-	-	-		-
Real Estate Taxes										l
Insurance	26,110	791	34,018	1,031	42,314	742	66,812	742	5	1,031

NHA Acceptance of CAN-DO Po	rtfolio, CP/	A/CDBG	PROPOSAL	REVISION	S 2	9 January 2	2020				
			CAN DO V	/s. NHA OP	ERAT	ING					25-01-20
¹ Adds \$70,000 to Administrative s	alaries + \$5,	,000 to Le	gal prorated	l over 90 ui	nits.						
² Adds \$80,000 + 34% Taxes & Ben	efits to Mai	ntenance	salaries pro	rated over	90 ur	nits + \$12,00	0 Turnove	r prorated ov	er 33 units o	nly.	
³ Supportive Service prorated over	33 units on	ly.									
⁴ Utilities prorated over 90 units.											
⁵ Insurance prorated over 90 units.											

NHA Acceptance of CAN-DO Port		G PROPU	SAL KEVISIO		ary 2020									
2019 NOI assuming NHA Operating														01-25-2
									20-2		61 Pearl		14 Nonantu	
<u>Can-Do Developments</u>	<u>10-11 Camb</u>	ria Road	<u>11-13 Cam</u>	bria Road	<u>18-20 Camb</u>	oria Road	163 Jackso	n Road	<u>Falmouth</u>	n Road	<u>Park Ho</u>	ouse	Garfield I	<u>House</u>
Number of Units	2	units	2	units	2	units	2	units	2	units	3	units	3	units
Monthly Rent	1,575	NHA	916	NHA	1,700	MBHP	1,600	NHA	1,625	NHA	1,255	N/A	2,100	NHA
	1,691	NHA	1,573	WHA	2,330	NHA	2,000	NHA	1,608	MBHP	1,255	N/A	2,327	NHA
											1,464	NHA	2,419	NHA
Gross Possible Rent	39,192		29,868		48,360		43,200		38,796		47,688		82,152	
Vacancy (15%)	(5,879)		(4,480)		(7,254)		(6,480)		(5,819)		(7,153)		(12,323)	
Net Effective Income	33,313		25,388		41,106		36,720		32,977		40,535		69,829	
Max Can Do or NHA Expenses														
Administrative	6,848		6,848		6,848		6,848		6,848		10,273		10,273	
Maintenance	7,417		7,417		7,417		7,417		7,417		11,126		11,126	
Supportive Services	2,000		2,000		2,000		2,000		2,000		3,000		3,000	
Replacement Reserve	4,000		4,000		4,000		4,000		4,000		6,000		6,000	
Utilities	4,581		4,581		4,581		4,581		4,581		6,871		6,871	
Real Estate Taxes	-		-		-		-		-		-		-	
Insurance	2,062		2,062		2,062		2,062		2,062		3,093		3,093	
Total Expenses	26,908		26,908		26,908		26,908		26,908		40,362		40,362	
Net Operating Income	6,405		(1,520)		14,198		9,812		6,068		173		29,467	
Debt Service														
ТVВ	-		16,202	5.00%	20,768	5.75%	20,992	5.25%	19,619	4.50%	-		9,417	6.00%
TVB Balance				199,486		189,838		219,492		216,424				97,672
CSB	-		-	,	6,896	4.50%	-	,	-		14,644	4.50%	-	
CSB Balance						109,987						233,499		
BCLF	-		-		-		-		-		-		-	
BCLF Balance														
Total Debt Service	-		16,202		27,663		20,992		19,619		14,644		9,417	
Net Cash Flow	6,405		(17,723)		(13,465)		(11,180)		(13,551)		(14,471)		20,050	
													CEDAC	HIF
Loan Balances	<u>01-01-20</u>													
ТVВ	1,498,784													
CSB	343,486													
BCLF	80,378													
Loan Balances	1,922,648													

NHA Acceptance of CAN-DO Port	tfol NHA Accepta	ince of CAN	-DO Portfolio	, CPA/CDB	G PROPOSAL	REVISIONS	29 January 2	2020				
2019 NOI assuming NHA Operating												25-01-20
	90 Christin	na Street	2148 Comm	onwealth					228 Web	ster Street	20	19
Can-Do Developments	<u>Kayla F</u>	<u>louse</u>	<u>Veterans</u>	House	<u>54 Eddy</u>	<u>Street</u>	<u>54 Taft A</u>	<u>venue</u>	<u>Webst</u>	er House	<u>T0</u>	<u>ral</u>
N. John S. Chinette		. 11 .					2				22	
Number of Units	5	units	2	units	2	units	2	units	6	respite units	33	units
Monthly Rent	1,926	NHA NHA	1,612	CHA BHA	1,392	MBHP NHA	2,112 938	NHA	975 895	NWW - NHA NWW - NHA		
	1,926		1,826	впа	2,000	NПА	938	MBHP				
	1,926 1,811	NHA							895	NWW - NHA NWW - NHA		
		NHA NHA							895			Daviduelt
	1,811	NHA							895 895	NWW - NHA NWW - NHA		<u>Per Unit</u>
Gross Possible Rent	112,800		41,256		40,704		36,600		65,400		626,016	18,970
Vacancy (15%)	(16,920)		(6,188)		(6,106)		(5,490)		(9,810)		(93,902)	(2,846
Net Effective Income	95,880		35,068		34,598		31,110		55,590		532,114	16,125
Max Can Do or NHA Expenses												
Administrative	17,121		6,848		6,848		6,848		20,545		112,998	3,424
Maintenance	18,544		7,417		7,417		7,417		22,252		122,388	3,709
Supportive Services	5,000		2,000		2,000		2,000		6,000		33,000	1,000
Replacement Reserve	10,000		4,000		4,000		4,000		12,000		66,000	2,000
Utilities	11,451		4,581		4,581		4,581		13,742		75,580	2,290
Real Estate Taxes	-		-,501		-,501		-,501		-		-	-
Insurance	5,154		2,062		2,062		2,062		6,185		34,018	1,031
Total Expenses	67,270		26,908		26,908		26,908		80,724		443,984	13,454
Net Operating Income	28,610		8,159		7,690		4,202		(25,134)		88,130	2,671
Debt Service												
ТVВ	18,877	5.25%	22,935	5.00%	7,353	4.50%	-		18,095	5.25%	154,259	
TVB Balance		173,574		132,643	,	107,209				162,445		1,498,784
CSB	-		-		-		-		-		21,539	
CSB Balance												343,486
BCLF	8,135	7.00%	-		-		-		-		8,135	
BCLF Balance		80,378										80,378
Total Debt Service	27,013		22,935		7,353		-		18,095		183,934	
Net Cash Flow	1,597		(14,776)		337		4,202		(43,229)		(95,804)	DSC 0.48
Net cash now	1,557		(14,770)		557		4,202		(43,223)		(55,804)	0.40
	CEDA	C HIF	FHL	В					FHLB, AHTI	F, CEDAC FCF		
Loan Balances	<u>01-01-20</u>											
TVB	1,498,784											
CSB	343,486											
BCLF	80,378											
Loan Balances	1,922,648											

2019 NOI assuming New TVB Loan	n													01-25-2
									20-2		61 Pearl		14 Nonantu	
Can-Do Developments	<u>10-11 Camb</u>	oria Road	<u>12-13 Cam</u>	bria Road	18-20 Camb	oria Road	<u>163 Jackso</u>	n Road	Falmout	n Road	Park Ho	<u>use</u>	Garfield I	<u>House</u>
Number of Units	2	units	2	units	2	units	2	units	2	units	3	units	3	units
Monthly Rent	1,575	NHA	916	NHA	1,700	MBHP	1,600	NHA	1,625	NHA	1,255	N/A	2,100	NHA
	1,691	NHA	1,573	WHA	2,330	NHA	2,000	NHA	1,608	MBHP	1,255	N/A	2,327	NHA
											1,464	NHA	2,419	NHA
Gross Possible Rent	39,192		29,868		48,360		43,200		38,796		47,688		82,152	
Vacancy (15%)	(5,879)		(4,480)		(7,254)		(6,480)		(5,819)		(7,153)		(12,323)	
Net Effective Income	33,313		25,388		41,106		36,720		32,977		40,535		69,829	
Max Can Do or NHA Expenses														
Administrative	6,848		6,848		6,848		6,848		6,848		10,273		10,273	
Maintenance	7,417		7,417		7,417		7,417		7,417		11,126		10,275	
Supportive Services	2,000		2,000		2,000		2,000		2,000		3,000		3,000	
Replacement Reserve	4,000		4,000		4,000		4,000		4,000		6,000		6,000	
Utilities	4,581		4,581		4,581		4,581		4,581		6,871		6,871	
Real Estate Taxes	-		-		-		-		-		-		-	
Insurance	2,062		2,062		2,062		2,062		2,062		3,093		3.093	
Total Expenses	26,908		26,908		26,908		26,908		26,908		40,362		40,362	
Net Operating Income	6,405		(1,520)		14,198		9,812		6,068		173		29,467	
Debt Service														
New TVB Debt Service	-		-		-		-		-		-		-	
New TVB Loan Amount														
Total Debt Service	-		-		-		-		-		-		-	
Net Cash Flow	6,405		(1,520)		14,198		9,812		6,068		173		29,467	
													CEDAC	

NHA Acceptance of CAN-DO Portf 2019 NOI assuming New TVB Loan	· ·											01-25-20
												01 25 20
	90 Christi	na Street	2148 Comm	onwealth					228 Web	ster Street	20	19
Can-Do Developments	Kayla I	House	Veterans	House	54 Eddy	Street	54 Taft A	venue	Webst	er House	TO	TAL
Number of Units	5	units	2	units	2	units	2	units	6	respite units	33	units
Monthly Rent	1,926	NHA	1,612	CHA	1,392	MBHP	2,112	NHA	975	NWW - NHA		
	1,926	NHA	1,826	BHA	2,000	NHA	938	MBHP	895	NWW - NHA		
	1,926	NHA							895	NWW - NHA		
	1,811	NHA							895	NWW - NHA		
	1,811	NHA							895	NWW - NHA		Per Unit
									895	NWW - NHA		
Gross Possible Rent	112,800		41,256		40,704		36,600		65,400		626,016	18,970
Vacancy (15%)	(16,920)		(6,188)		(6,106)		(5,490)		(9,810)		(93,902)	(2,846
Net Effective Income	95,880		35,068		34,598		31,110		55,590		532,114	16,125
Max Can Do or NHA Expenses												
Administrative	17,121		6,848		6,848		6,848		20,545		112,998	3,424
Maintenance	18,544		7,417		7,417		7,417		22,252		122,388	3,709
Supportive Services	5,000		2,000		2,000		2,000		6,000		33,000	1,000
Replacement Reserve	10,000		4,000		4,000		4,000		12,000		66,000	2,000
Utilities	11,451		4,581		4,581		4,581		13,742		75,580	2,290
Real Estate Taxes	-		-		-		-		-		-	-
Insurance	5,154		2,062		2,062		2,062		6,185		34,018	1,031
Total Expenses	67,270		26,908		26,908		26,908		80,724		443,984	13,454
Net Operating Income	28,610		8,159		7,690		4,202		(25,134)		88,130	2,671
Debt Service											N	lew TVB Loar
New TVB Debt Service	-		_		-		-		-		40,688	650,000
New TVB Loan Amount												,
Total Debt Service	-		-		-		-		-		40,688	650,000
Net Cash Flow	28,610		8,159		7,690		4,202		(25,134)		47,441	
				_								
	CEDA	C HIF	FHL	.В					FHLB, AHT	F, CEDAC FCF		

NHA Acceptance of CAN-DO 20 YEAR PROJECTION	r ortrono,			25 Juli	aary 2020							
20 TEAR PROJECTION												
Can-Do Developments												25-01-20
Trend: 2% Income			1	2	3	4	5	6	7	8	9	10
Trend: 3% Expense	<u>2019</u>	Per Unit	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>2028</u>	<u>2029</u>
Gross Possible Rent	626,016	18,970	638,536	651,307	664,333	677,620	691,172	704,996	719,096	733,478	748,147	763,110
Vacancy	(93,902)	(2,846)	(95,780)	(97,696)	(79,720)	(81,314)	(69,117)	(70,500)	(57,528)	(58,678)	(59,852)	(61,049)
Vacancy Rate	15%	15%	15%	15%	12%	12%	10%	10%	8%	8%	8%	8%
Net Effective Income	532,114	16,125	542,756	553,611	584,613	596,305	622,055	634,496	661,568	674,799	688,295	702,061
Max Can Do or NHA Expenses												
Administrative	112,998	3,424	116,388	119,879	123,476	127,180	130,995	134,925	138,973	143,142	147,437	151,860
Maintenance	122,388	3,709	126,059	129,841	133,736	137,748	141,881	146,137	150,521	155,037	159,688	164,479
Supportive Services	33,000	1,000	33,990	35,010	36,060	37,142	38,256	39,404	40,586	41,803	43,058	44,349
Replacement Reserve	66,000	2,000	67,980	70,019	72,120	74,284	76,512	78,807	81,172	83,607	86,115	88,698
Utilities	75,580	2,290	77,847	80,183	82,588	85,066	87,618	90,246	92,954	95,742	98,614	101,573
Real Estate Taxes	-	-	-	-	-	-	-	-	-	-	-	-
Insurance	34,018	1,031	35,039	36,090	37,173	38,288	39,437	40,620	41,838	43,094	44,386	45,718
Total Expenses	443,984	13,454	457,303	471,022	485,153	499,708	514,699	530,140	546,044	562,425	579,298	596,677
Net Operating Income	88,130	2,671	85,453	82,589	99,460	96,598	107,356	104,356	115,524	112,374	108,997	105,384
Debt Service												
New TVB Debt Service	40,688		40,688	40,688	40,688	40,688	40,688	40,688	40,688	40,688	40,688	40,688
New TVB Loan Amount		650,000	-	-	-	-	-	-	-	-	-	-
Total Debt Service	40,688		40,688	40,688	40,688	40,688	40,688	40,688	40,688	40,688	40,688	40,688
Net Cash Flow	47,441		44,764	41,900	58,772	55,909	66,668	63,668	74,835	71,686	68,309	64,696
Debt Service Coverage Ratio	2.17		2.10	2.03	2.44	2.37	2.64	2.56	2.84	2.76	2.68	2.59

NHA Acceptance of CAN-DC	NHA Accept	ance of CA	N-DO Port	iolio, CPA/(CDBG PROP	OSAL REVI	SIONS 29) January 20)20	
20 YEAR PROJECTION										
Can Da Davida una anta										25 04 20
Can-Do Developments										25-01-20
Trend: 2% Income	11	12	13	14	15	16	17	18	19	20
Trend: 3% Expense	<u>2030</u>	<u>2031</u>	<u>2032</u>	<u>2033</u>	<u>2034</u>	<u>2035</u>	<u>2036</u>	<u>2037</u>	<u>2038</u>	<u>2039</u>
Gross Possible Rent	778,372	793,940	809,818	826,015	842,535	859,386	876,574	894,105	911,987	930,227
Vacancy	(62,270)	(63,515)	(64,785)	(66,081)	(67,403)	(68,751)	(70,126)	(71,528)	(72,959)	(74,418)
Vacancy Rate	8%	8%	8%	8%	8%	8%	8%	8%	8%	8%
Net Effective Income	716,102	730,424	745,033	759,934	775,132	790,635	806,448	822,577	839,028	855,809
Max Can Do or NHA Expenses										
Administrative	156,415	161,108	165,941	170,919	176,047	181,328	186,768	192,371	198,142	204,087
Maintenance	169,413	174,496	179,730	185,122	190,676	196,396	202,288	208,357	214,607	221,046
Supportive Services	45,680	47,050	48,462	49,915	51,413	52,955	54,544	56,180	57,866	59,602
Replacement Reserve	91,359	94,100	96,923	99,831	102,826	105,911	109,088	112,361	115,731	119,203
Utilities	104,620	107,759	110,991	114,321	117,751	121,283	124,922	128,669	132,530	136,505
Real Estate Taxes	-	-	-	-	-	-	-	-	-	-
Insurance	47,090	48,502	49,957	51,456	53,000	54,590	56,227	57,914	59,652	61,441
Total Expenses	614,577	633,015	652,005	671,565	691,712	712,464	733,837	755,853	778,528	801,884
Net Operating Income	101,525	97,410	93,028	88,368	83,420	78,171	72,610	66,724	60,500	53,925
Debt Service										
New TVB Debt Service	40,688	40,688	40,688	40,688	40,688	40,688	40,688	40,688	40,688	40,688
New TVB Loan Amount	-	-	-	-	-	-	-	-	-	-
Total Debt Service	40,688	40,688	40,688	40,688	40,688	40,688	40,688	40,688	40,688	40,688
Net Cash Flow	60,837	56,721	52,339	47,680	42,732	37,483	31,922	26,036	19,811	13,236
Debt Service Coverage Ratio	2.50	2.39	2.29	2.17	2.05	1.92	1.78	1.64	1.49	1.33

NHA Acceptance of CAN-DO Portfo	lio, CPA/CD <u>BG</u>	PROPOSAL I	REVISIONS	29 January	2020					
REPLACEMENT RESERVE BALANCE (without CDBG funding)										25-01-20
	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Can-Do Developments	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>
Starting Replacement Reserve	-	(439,191)	(377,024)	(363,028)	(321,068)	(239,803)	(183,764)	(92,704)	(68,074)	33,107
Monthly Contribution at 3%	5,500	5,665	5,835	6,010	6,190	6,376	6,567	6,764	6,967	7,176
Yearly Contribution at 3%	66,000	67,980	70,019	72,120	74,284	76,512	78,807	81,172	83,607	86,115
Total Replacement Reserve	66,000	(371,211)	(307,005)	(290,908)	(246,785)	(163,291)	(104,957)	(11,533)	15,533	119,222
Interest on Reserve at 1.5%	495	(6,078)	(5,130)	(4,905)	(4,259)	(3,023)	(2,165)	(782)	(394)	1,142
Total Funds Available	66,495	(377,289)	(312,135)	(295,812)	(251,044)	(166,314)	(107,122)	(12,314)	15,139	120,364
NHA & TVB Grants	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
Capital Needs	555,686	49,735	100,893	75,256	38,760	67,450	35,582	105,760	32,032	111,091
Reserve Balance	(439,191)	(377,024)	(363,028)	(321,068)	(239,803)	(183,764)	(92,704)	(68,074)	33,107	59,273
Over 20 Years										
Yearly Contributions	1,773,445									
Interest on Reserve @ 1.5%	(21,779)									
Capital Needs	(2,391,184)									
NHA & TVB Grants	500,000									
Reserve Balance in Year 20	(139,517)									

NHA Acceptance of CAN-DO Portfoli NHA Acceptance of CAN-DO Portfolio, CPA/CDBG PROPOSAL REVISIONS 29 January 2020										
REPLACEMENT RESERVE BALANCE										
(without CDBG funding)										25-01-20
	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
Can-Do Developments	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>
Starting Replacement Reserve	59,273	33,028	67,167	89,871	100,871	12,584	(130,626)	(112,212)	(211,901)	(195,141)
Monthly Contribution at 3%	7,392	7,613	7,842	8,077	8,319	8,569	8,826	9,091	9,363	9,644
Yearly Contribution at 3%	88,698	91,359	94,100	96,923	99,831	102,826	105,911	109,088	112,361	115,731
Total Replacement Reserve	147,971	124,388	161,267	186,795	200,701	115,410	(24,715)	(3,124)	(99,540)	(79,410)
Interest on Reserve at 1.5%	1,554	1,181	1,713	2,075	2,262	960	(1,165)	(865)	(2,336)	(2,059)
Total Funds Available	149,526	125,569	162,980	188,870	202,963	116,370	(25,880)	(3,989)	(101,876)	(81,469)
NHA & TVB Grants	-	-	-	-	-	-	-	-	-	-
Capital Needs	116,497	58,402	73,109	87,999	190,379	246,996	86,332	207,912	93,265	58,049
Reserve Balance	33,028	67,167	89,871	100,871	12,584	(130,626)	(112,212)	(211,901)	(195,141)	(139,517)
Over 20 Years										
Yearly Contributions			1,773,445							
-										
Interest on Reserve @ 1.5%			(21,779)							
Capital Needs			(2,391,184)							
NHA & TVB Grants			500,000							
Reserve Balance in Year 20			(139,517)							

NHA Acceptance of CAN-DO Portfo	lio, CPA/CDBG	PROPOSAL	REVISIONS	29 January 2020						
REPLACEMENT RESERVE BALANCE										
(with CDBG funding)										25-01-20
	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Can-Do Developments	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>
Starting Replacement Reserve	-	112,161	182,598	204,989	255,469	345,382	410,199	510,168	543,841	654,201
Monthly Contribution at 3%	5,500	5,665	5,835	6,010	6,190	6,376	6,567	6,764	6,967	7,176
Yearly Contribution at 3%	66,000	67,980	70,019	72,120	74,284	76,512	78,807	81,172	83,607	86,115
Total Replacement Reserve	66,000	180,141	252,618	277,109	329,752	421,894	489,006	591,340	627,448	740,316
Interest on Reserve at 1.5%	495	2,192	3,264	3,616	4,389	5,755	6,744	8,261	8,785	10,459
Total Funds Available	66,495	182,334	255,882	280,725	334,141	427,648	495,750	599,601	636,233	750,774
NHA & TVB Grants	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
City CDBG	551,352	-	-	-	-	-	-	-	-	-
Capital Needs	555,686	49,735	100,893	75,256	38,760	67,450	35,582	105,760	32,032	111,091
Reserve Balance	112,161	182,598	204,989	255,469	345,382	410,199	510,168	543,841	654,201	689,683
Over 20 Years										
Yearly Contributions	1,773,445									
Interest on Reserve @ 1.5%	158,486									
Capital Needs	(2,391,184)									
NHA & TVB Grants	500,000									
City CDBG	551,352									
Reserve Balance in Year 20	592,099									

NHA Acceptance of CAN-DO Portfo	li NHA Accept	ance of CAN	N-DO Portfoli	o, CPA/CDB	g proposai	L REVISIONS	29 Janua	ry 2020		
REPLACEMENT RESERVE BALANCE (with CDBG funding)										25-01-20
	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
Can-Do Developments	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>
Starting Replacement Reserve	689,683	672,895	716,631	749,078	769,965	691,715	558,692	587,446	498,252	525,664
Monthly Contribution at 3%	7,392	7,613	7,842	8,077	8,319	8,569	8,826	9,091	9,363	9,644
Yearly Contribution at 3%	88,698	91,359	94,100	96,923	99,831	102,826	105,911	109,088	112,361	115,731
Total Replacement Reserve	778,382	764,254	810,732	846,001	869,796	794,541	664,603	696,534	610,612	641,395
Interest on Reserve at 1.5%	11,010	10,779	11,455	11,963	12,298	11,147	9,175	9,630	8,316	8,753
Total Funds Available	789,392	775,033	822,187	857,964	882,094	805,688	673,777	706,164	618,929	650,148
NHA & TVB Grants	-	-	-	-	-	-	-	-	-	-
City CDBG	-	-	-	-	-	-	-	-	-	-
Capital Needs	116,497	58,402	73,109	87,999	190,379	246,996	86,332	207,912	93,265	58,049
Reserve Balance	672,895	716,631	749,078	769,965	691,715	558,692	587,446	498,252	525,664	592,099
Over 20 Years										
Yearly Contributions			1,773,445							
Interest on Reserve @ 1.5%			158,486							
Capital Needs			(2,391,184)							
NHA & TVB Grants			500,000							
City CDBG			551,352							
Reserve Balance in Year 20			592,099							

NHA Acceptance of CAN-DO					anuary 2020					
CAPITAL NEEDS BY PROPERTY										25-01-20
	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Can-Do Developments	<u>1</u>	2	3	4	5	<u>6</u>	<u>7</u>	8	<u>9</u>	<u>10</u>
10-11 Cambria Road	16,852	-	-	279	-	190	1,164	3,628	-	-
11-13 Cambria Road	47,780	1,751	-	-	549	3,058	15,463	-	-	848
18-20 Cambria Road	6,940	-	-	30,383	732	754	-	3,690	1,001	-
163 Jackson Road	95,395	-	-	-	-	2,611	1,194	2,460	-	-
20-22 Falmouth Road	100,030	-	-	-	-	4,408	-	2,400	-	-
61 Pearl Street	7,491	7,472	1,326	328	2,983	3,322	-	11,376	-	77,520
14 Nonantum Place	94,218	9,553	1,247	-	-	12,204	-	39,487	-	984
90 Christina Street	6,108	11,647	39,165	18,251	18,102	25,512	8,866	1,291	784	9,786
2148-2150 Commonwealth	48,474	2,987	-	-	366	2,622	388	1,876	1,520	-
54 Eddy Street	11,391	2,802	-	1,366	4,097	424	-	-	24,548	3,392
54 Taft Avenue	13,863	80	-	10,015	5,121	-	2,004	-	-	4,071
228 Webster Street	34,664	6,956	45,996	4,819	1,756	3,547	1,863	25,697	-	-
Annual Totals	483,206	43,248	87,734	65,441	33,706	58,652	30,942	91,905	27,853	96,601
Capital Needs	483,205	43,248	87,733	65,440	33,704	58,652	30,941	91,965	27,854	96,601
Capital Needs Inflated by 15%	555,686	49,735	100,893	75,256	38,760	67,450	35,582	105,760	32,032	111,091

NHA Acceptance of CAN-DO	prea						29 January 2			
CAPITAL NEEDS BY PROPERTY										25-01-20
	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
Can-Do Developments	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>
10-11 Cambria Road	4,991	2,768	4,919	-	-	39,747	14,433	31,707	-	-
11-13 Cambria Road	3,696	-	-	-	12,098	12,522	4,814	-	-	1,140
18-20 Cambria Road	3,091	-	2,545	8,195	983	8,024	-	4,959	68,711	-
163 Jackson Road	5,423	-	-	-	-	17,037	1,605	3,306	-	-
20-22 Falmouth Road	5,548	-	-	-	-	15,818	-	3,306	-	-
61 Pearl Street	7,482	27,561	15,719	441	454	3,895	587	7,520	-	5,773
14 Nonantum Place	22,741	2,116	428	-	48,564	13,013	3,771	-	-	1,322
90 Christina Street	2,688	-	21,895	22,972	8,055	7,608	7,836	51,673	9,495	34,263
2148-2150 Commonwealth	17,117	12,693	-	-	492	67,518	522	2,521	2,894	-
54 Eddy Street	4,926	900	13,110	44,715	75,487	-	-	-	-	-
54 Taft Avenue	15,939	4,745	3,707	-	-	4,440	30,451	14,727	-	7,978
228 Webster Street	7,660	-	1,250	198	19,414	25,159	11,054	61,075	-	-
Annual Totals	101,302	50,783	63,573	76,521	165,547	214,781	75,073	180,794	81,100	50,476
Capital Needs	101,302	50,784	63,573	76,521	165,547	214,779	75,071	180,793	81,100	50,477
Capital Needs Inflated by 15%	116,497	58,402	73,109	87,999	190,379	246,996	86,332	207,912	93,265	58,049

65-20



Ruthanne Fuller Mayor

City of Newton, Massachusetts

Department of Planning and Development 1000 Commonwealth Avenue Newton, Massachusetts 02459

Telephone (617) 796-1120 Telefax (617) 796-1142 TDD/TTY (617) 796-1089 www.newtonma.gov

Barney S. Heath Director

MEMORANDUM

То:	Planning and Development Board & Community Preservation Committee	This mem submitt
From:	Eamon Bencivengo, Housing Development Planner	January 20
	Amanda Berman, Director of Housing and Community Development	public h schedu
Re:	Newton Housing Authority Acquisition of CAN-DO Portfolio	February
Date:	February 11, 2020	

BACKGROUND

In January 2017, CAN-DO (Citizens for Affordable Housing in Newton Development Organization) executed an affiliation agreement with Metro West Collaborative Development (Metro West) for Metro West to oversee management of CAN-DO's 33-unit real estate portfolio. In 2019, the two organizations agreed to disaffiliate, placing the management of the CAN-DO portfolio in jeopardy. Several months ago, the Newton Housing Authority (NHA) approached the City of Newton with the intent to acquire the CAN-DO portfolio. In the intervening months, City Planning Staff has worked closing with the NHA to create financing structure that transfers ownership and management of the portfolio to NHA to ensure its long-term stabilization.

The 33-unit portfolio is spread across 12 scattered site projects serving very low-income individuals who require a variety of supportive services. Not only is the City concerned in the well-being of these individuals should the portfolio be neglected, but it is also committed to preserving the deep level of affordability provided in these units. With the approximate \$126,700 of City investment awarded each bedroom of the the portfolio over the life span of CAN-DO, the City is compelled to ensure the portfolio continues to serve the most vulnerable in Newton.

PROPOSED PROGRAM RESTRUCTURING

Over the past several weeks, Planning Department Staff, in consultation with the assistance of a third-party consultant and advice from the Newton Housing Partnership (NHP), has collaborated with the NHA to develop a financing structure that allows the NHA to acquire the portfolio through both the responsible allocation of public dollars and leveraging of private investment. As a result, the portfolio maintains a reasonable debt service coverage ratio and healthy replacement reserve over the 20-year projection.

The following two tables summarize the requested funding sources and their corresponding uses. CPA and CDBG funds will be used to reduce the portfolio's existing debt, with remaining CDBG funds being used to support eligible rehab projects outlined in the first year of NHA's capital needs projection.

CPC staff note:

<mark>no was</mark> tted 29 020 for hearing uled 11 v 2020.

Table 1. Sources for Uses

SOURCES		
NHA Grant over 10 Years	250,000	
TVB Grant over 10 Years	250,000	
New TVB Loan	650,000	1
City CPA	1,105,000	
City CDBG - FY 2019 & 2020	1,200,000	
TOTAL SOURCES	3,455,000	
	r	
USES		
TVB Loan Repayment	1,498,784	
CSB Loan Repayment	343,486	
BCLF Loan Repayment	80,378	
Replacement Reserve	500,000	
Operating Reserve	250,000	2
Capital Improvements	551,352	2
Financing Fees (1%)	6,500	
Legal Fees	150,000	
Title & Recording	40,000	
Development Consultant	30,000	
Appraisal	4,500	
TOTAL USES	3,455,000	
SURPLUS / (DEFICIT)	0	

¹ New TVB Debt at 4.75%, 30 year amortization. ² To fund capital needs in 2020.

Table 2. Uses for Sources

			New	City	City	TOTAL
SOURCES	NHA	TVB	Loan	СРА	FY 19 &	SOURC
TVB Loan Repayment			169,0	681,1	648,6	1,498,7
CSB Loan Repayment				343,4		343,4
BCLF Loan Repayment				80,3		80,3
Replacement Reserve	250,0	250,0				500,0
Operating Reserve			250,0			250,0
Capital Improvements					551,3	551,3
Financing Fees (1%)			6,5			6,5
Legal Fees			150,0			150,0
Title & Recording			40,0			40,0
Development Consultant			30,0			30,0
Appraisal			4,5			4,5
			00			00
USES	250,0	250,0	650,0	1,105,0	1,200,0	3,455,0
SURPLUS / (DEFICIT)	-	-	-	-	0	0

3

STAFF RECOMMENDATIONS

Given the uniqueness and complexity of this portfolio deal, Planning Staff commends the NHA willingness to utilize the feedback offered by the NHP and third-party consultants in order to preserve the deep affordability of these critical housing units. As a result, Planning Staff is supportive of the NHA funding structure and request to acquire the CAN-DO portfolio. Planning Staff is confident the NHA will not only stabilize, but strengthen the portfolio, ensuring that residents continue to experience a high-quality of life.

Newton Housing Authority Acquisition of CAN-DO Portfolio

Community Preservation Committee Planning and Development Board February 11, 2020

> Amy Zarechian, Executive Director Vincent O'Donnell, Commissioner



Newton Housing Authority

• Newton Housing Authority (NHA)

- Established in 1959
- Largest provider of affordable housing in Newton
- Over 1300 residents
- 500 public housing units
- 441 Rental Assistance Vouchers
- 57 management units

• Mission of the NHA

- Provide a high standard of housing
- Create a sense of community for residents
- Increase affordable housing opportunities in City of Newton
- Provide robust social services



Jackson Gardens

NHA Programs

- Federal Public Housing
 - 298 units for seniors and individuals with disabilities
 - Funded by operating and capital subsidies from US Housing and Urban Development (HUD)

• State Public Housing

 216 units for families, elders, and individuals with disabilities funded by operating and capital subsidies from MA Dept. of Housing and Community Development (DHCD)

• Housing Choice Voucher Program (Section 8)

- 441 federally subsidized vouchers
- Includes 15 vouchers set-aside for victims of domestic violence

• YMCA Project-Based Section 8

• 25 project-based section 8 vouchers at the West Suburban YMCA for single, homeless men

• Mass Rental Voucher Program

• 32 state-subsidized vouchers

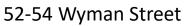


NHA Management Program

• Management Portfolio

- 57 units of NHA owned and operated unsubsidized units
- Purchased with Inclusionary Zoning Funds, donated in two cases
- Occupied by NHA Section 8 voucher holders
- Locations:
 - 52-54 Wyman Street
 76 Webster Park
 1115 #8 Beacon Street
 23 Considine Rd.
 15-17 Jackson Terrace
 45 Pelham Street
 83-85 West Street
 68-70 Wyman Street
 68, 38, 40, 46 Crescent St.
 9A, 17A Baldwin Street
 90 Newtonville Ave.







NHA Resident Services

Tenant Demographics

Federal Public Housing:

67% Elderly (62yrs +)

33% Persons with disabilities

30% Mandaring speaking

State Public Housing:

33% Under 18 years old

14% Persons with disabilities

Resident Services Department

2 Licensed Social Workers- fluent in Spanish and Mandarin

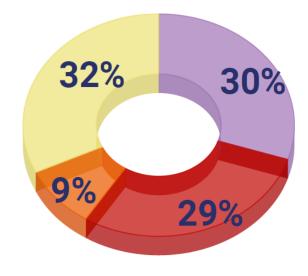
102 clinical cases open in 2019- 48% clinical cases involved mental health as contributing factor

262 residents served in 2019





165-20





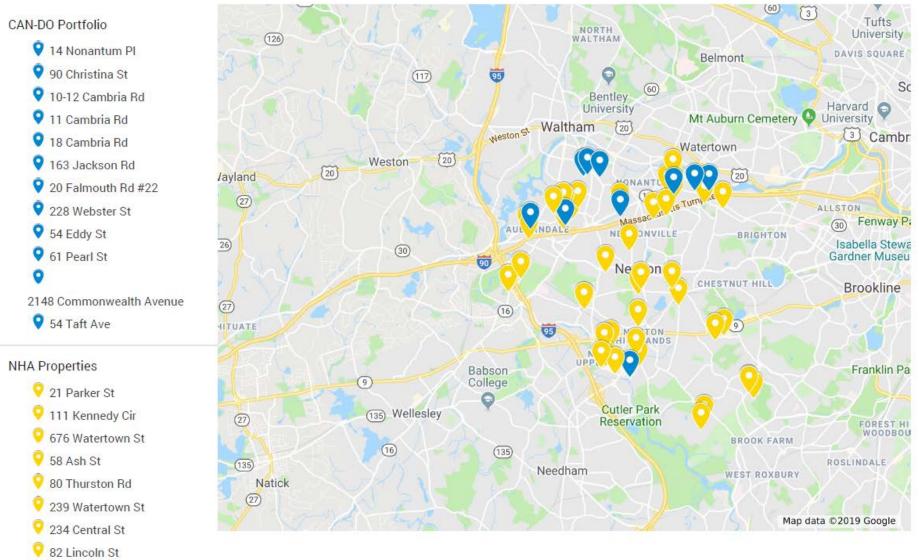
CAN-DO Acquisition

165-20

- On January 1, 2017, CAN-DO and Metro West Collaborative Development became affiliates upon retirement of CAN-DO's Executive Director
- The two organizations have disaffiliated and Metro West CD management contract expired 1/31/2020
- NHA began a due diligence process, looking carefully at financial projections and commissioning a Capital Needs Assessment
- Due diligence has shown that the portfolio does not have sufficient operating income to break even over time and does not have the reserves necessary for long-term management
- NHA committed to increasing the number of affordable units in the City and preserving CAN-DO portfolio as an important resource, particularly for the vulnerable tenant population served



CAN-DO and NHA Properties





541 Grove St
 15 Wilson Cir

CAN-DO Portfolio

Address	Units	City Sources	Total City \$
14 Nonantum			
Place/Garfield House	3	HOME, NHRF	\$308,611
90 Christina St./Kayla			
House	5	CDBG, HOME	\$695,574
10-12 Cambria Rd.	2	CDBG, HOME, CPA	\$855,370
11-13 Cambria Rd.	2	CDBG, CPA	\$630,850
18-20 Cambria Rd.	2	CDBG, CPA	\$541,417
163 Jackson Rd.	2	CDBG, CPA	\$587,750
20-22 Falmouth Rd.	2	CDBG, CPA	\$651,202
228 Webster St.	6	HOME, NHRF	\$237,957
54 Eddy Street	2	CDBG, CPA	\$945,250
61 Pearl Street	3	CDBG, HOME, CPA	\$1,145,000
2148 Comm. Ave./Veteran			
House	2	CDBG, CPA	\$675,000
54 Taft Ave.	2	CDBG, HOME, CPA	\$1,089,029



228 Webster Street



CAN-DO Acquisition

- NHA worked closely with the City's Department of Planning and Development to align proposed funding sources with permissible uses
- At the Department's suggestion, NHA increased CDBG request to \$1,200,000 to address immediate capital needs and fund a portion of the elimination of existing private debt
- This allowed for a decrease in the new private debt to \$650,000
- CPA funds request reduced to \$1,105,000, which will also fund a portion of the elimination of existing private debt
- Based on comments from the Newton Housing Partnership, NHA increased capital budget by 15% and supportive services budget by \$1000/unit/year
- The annual contribution to the replacement reserve has been increased to \$2,000/unit/year
- New Village Bank debt will be used to create \$250,000 operating reserve
- Village Bank grant of \$250,000 and NHA grant of \$250,000 will be placed into replacement reserve in annual \$25,000 installments



CAN-DO Acquisition Sources for Uses

Sources:

Village Bank (TVB) Grant ov	ver 10 years	\$250,000
NHA Grant over 10 years		\$250,000
New TVB Loan*		\$650,000
City CPA		\$1,105,000
City CDBG		\$1,200,000
	Total:	\$3,455,000

*New TVB debt at 4.75%, 30 year amortization

Uses:

Total:	\$3,455,000
Appraisal	\$4,500
Development Consultant	\$30,000
Title & Recording	\$40,000
Legal Fees	\$150,000
Financing Fees (1%)	\$10,381
Operating Reserve	\$250,000
Replacement Reserve	\$500,000
Boston Community Loan Fund Repayment	\$80,378
Cambridge Savings Debt Repayment	\$343,486
TVB Debt Repayment	\$1,498,784



CAN-DO Acquisition Uses for Sources

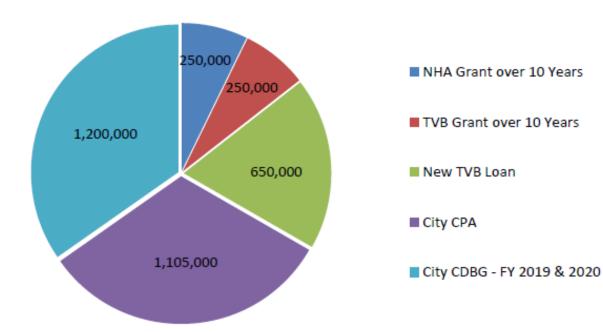
			New TVB	City	City CDBG	TOTAL
SOURCES	NHA	TVB	Loan	СРА	FY 19 & 20	SOURCES
TVB Loan Repayment			169,000	681,136	648,648	1,498,784
CSB Loan Repayment				343,486		343,486
BCLF Loan Repayment				80,378		80,378
Replacement Reserve	250,000	250,000				500,000
Operating Reserve			250,000			250,000
Capital Improvements					551,352	551,352
Financing Fees (1%)			6,500			6,500
Legal Fees			150,000			150,000
Title & Recording			40,000			40,000
Development Consultant			30,000			30,000
Appraisal			4,500			4,500
USES	250,000	250,000	650,000	1,105,000	1,200,000	3,455,000



SURPLUS / (DEFICIT) - - - - 0 0

CAN-DO Acquisition Sources

CAN DO DEVELOPMENTS





CAN-DO 20 Year Projection

Trend: 2% Income			1	2	3	4	5	6	7	8	9	10
Trend: 3% Expense	2019	Per Unit	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Gross Possible Rent	626,016	18,970	638,536	651,307	664,333	677,620	691,172	704,996	719,096	733,478	748,147	763,110
Vacancy	(93,902)	(2,846)	(95,780)	(97,696)	(79,720)	(81,314)	(69,117)	(70,500)	(57,528)	(58,678)	(59,852)	(61,049)
Vacancy Rate	15%	15%	15%	15%	12%	12%	10%	10%	8%	8%	8%	8%
Net Effective Income	532,114	16,125	542,756	553,611	584,613	596,305	622,055	634,496	661,568	674,799	688,295	702,061
Max Can Do or NHA Expenses												
Administrative	112,998	3,424	116,388	119,879	123,476	127,180	130,995	134,925	138,973	143,142	147,437	151,860
Maintenance	122,388	3,709	126,059	129,841	133,736	137,748	141,881	146,137	150,521	155,037	159,688	164,479
Supportive Services	33,000	1,000	33,990	35,010	36,060	37,142	38,256	39,404	40,586	41,803	43,058	44,349
Replacement Reserve	66,000	2,000	67,980	70,019	72,120	74,284	76,512	78,807	81,172	83,607	86,115	88,698
Utilities	75,580	2,290	77,847	80,183	82,588	85,066	87,618	90,246	92,954	95,742	98,614	101,573
Real Estate Taxes	-	-	-	-	-	-	-	-	-	-	-	-
Insurance	34,018	1,031	35,039	36,090	37,173	38,288	39,437	40,620	41,838	43,094	44,386	45,718
Total Expenses	443,984	13,454	457,303	471,022	485,153	499,708	514,699	530,140	546,044	562,425	579,298	596,677
Net Operating Income	88,130	2,671	85,453	82,589	99,460	96,598	107,356	104,356	115,524	112,374	108,997	105,384
Debt Service												
New TVB Debt Service	40,688		40,688	40,688	40,688	40,688	40,688	40,688	40,688	40,688	40,688	40,688
New TVB Loan Amount		650,000	-	-	-	-	-	-	-	-	-	-
Total Debt Service	40,688		40,688	40,688	40,688	40,688	40,688	40,688	40,688	40,688	40,688	40,688
Net Cash Flow	47,441		44,764	41,900	58,772	55,909	66,668	63,668	74,835	71,686	68,309	64,696
Debt Service Coverage Ratio	2.17		2.10	2.03	2.44	2.37	2.64	2.56	2.84	2.76	2.68	2.59

CAN-DO Capital Needs

165-20

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
<u>Can-Do Developments</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>
10-11 Cambria Road	16,852	-	-	279	-	190	1,164	3,628	-	-	4,991
11-13 Cambria Road	47,780	1,751	-	-	549	3,058	15,463	-	-	848	3,696
18-20 Cambria Road	6,940	-	-	30,383	732	754	-	3,690	1,001	-	3,091
163 Jackson Road	95,395	-	-	-	-	2,611	1,194	2,460	-	-	5,423
20-22 Falmouth Road	100,030	-	-	-	-	4,408	-	2,400	-	-	5 <i>,</i> 548
61 Pearl Street	7,491	7,472	1,326	328	2,983	3,322	-	11,376	-	77,520	7,482
14 Nonantum Place	94,218	9,553	1,247	-	-	12,204	-	39,487	-	984	22,741
90 Christina Street	6,108	11,647	39,165	18,251	18,102	25,512	8,866	1,291	784	9,786	2,688
2148-2150 Commonwealth	48,474	2,987	-	-	366	2,622	388	1,876	1,520	-	17,117
54 Eddy Street	11,391	2,802	-	1,366	4,097	424	-	-	24,548	3,392	4,926
54 Taft Avenue	13,863	80	-	10,015	5,121	-	2,004	-	-	4,071	15,939
228 Webster Street	34,664	6,956	45,996	4,819	1,756	3,547	1,863	25,697	-	-	7,660
Annual Totals	483,206	43,248	87,734	65,441	33,706	58,652	30,942	91,905	27,853	96,601	101,302
Capital Needs	483,205	43,248	87,733	65,440	33,704	58,652	30,941	91,965	27,854	96,601	101,302
Capital Needs Increased by											
15%	555,685.75	49,735.20	100,892.95	75,256.00	38,759.60	67,449.80	35,582.15	105,759.75	32,032.10	111,091.15	116,497.30



CAN-DO Acquisition Replacement Reserve

REPLACEMENT RESERVE BALANCE

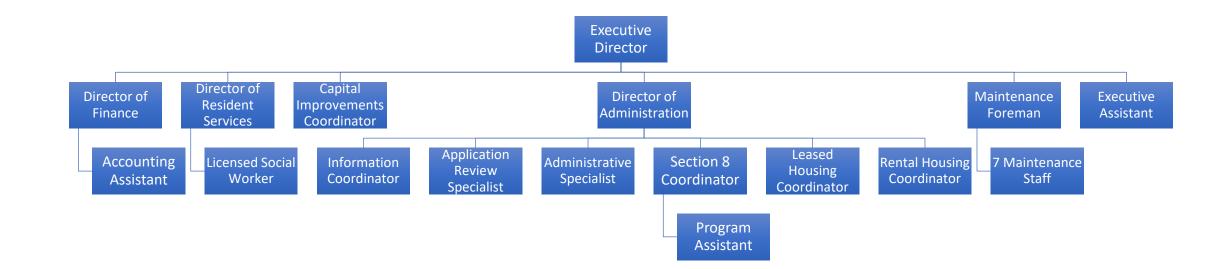
	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Can-Do Developments	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>Z</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>
Starting Replacement Reserve		(439,191)	(377,024)	(363,028)	(321,068)	(239,803)	(183,764)	(92,704)	(68,074)	33,107	59,273
Monthly Contribution at 3%	5,500	5,665	5,835	6,010	6,190	6,376	6,567	6,764	6,967	7,176	7,392
Yearly Contribution at 3%	66,000	67,980	70,019	72,120	74,284	76,512	78,807	81,172	83,607	86,115	88,698
Total Replacement Reserve	66,000	(371,211)	(307,005)	(290,908)	(246,785)	(163,291)	(104,957)	(11,533)	15,533	119,222	147,971
Interest on Reserve at 1.5%	495	(6,078)	(5,130)	(4,905)	(4,259)	(3,023)	(2,165)	(782)	(394)	1,142	1,554
Total Funds Available	66,495	(377,289)	(312,135)	(295,812)	(251,044)	(166,314)	(107,122)	(12,314)	15,139	120,364	149,526
NHA & TVB Grants	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	-
Capital Needs	555,686	49,735	100,893	75,256	38,760	67,450	35,582	105,760	32,032	111,091	116,497
Reserve Balance	(439,191)	(377,024)	(363,028)	(321,068)	(239,803)	(183,764)	(92,704)	(68,074)	33,107	59,273	33,028

Over 20 Years

Yearly Contributions	1,773,445
Interest on Reserve @ 1.5%	(21,779)
Capital Needs	(2,391,184)
NHA & TVB Grants	500,000
Reserve Balance in Year 20	(139,517)

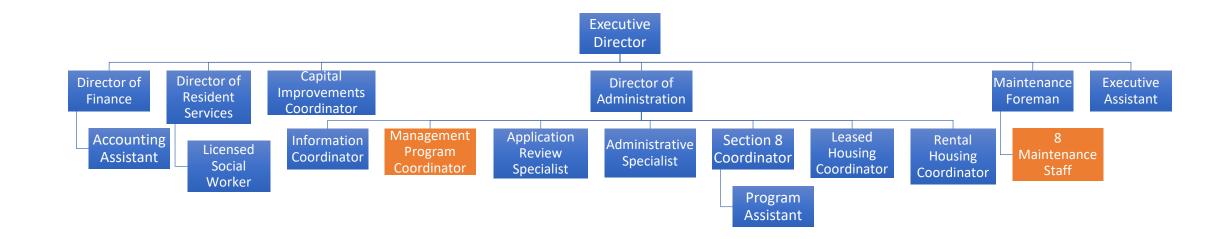


NHA Organizational Chart December 2019





NHA Organizational Chart December 2019 Post CAN-DO Property Acquisition





CAN-DO Acquisition Timeline

- CPC/P&D full-proposal/public hearing
- Purchase and Sale Agreement
- CPC/CDBG funding awards
- Closing

February 2020 March 2020 April 2020 Spring 2020





CPA Proposals & Projects

Newton Housing Authority

contacts:

 Amy Zarechian, Executive Director Newton Housing Authority
 82 Lincoln Street, Newton Highlands, MA 02461 email: <u>azarechian@newtonhousing.org</u> phone: 617.552.5501

projects below:

- Housing Authority Acceptance of CAN-DO Portfolio
- Haywood House/Jackson Road New Senior Housing
- Wyman Street Apartments

Housing Authority Acceptance of CAN-DO Portfolio

Sites throughout the city. See map submitted with the proposal.

goals:

Preserve the 33 units of scattered-site, deed-restricted rental housing developed throughout the City by CAN-DO (Citizens for Affordable Housing in Newton Development Organization), by reducing bank debt and addressing deferred capital needs under Newton Housing Authority ownership and management.

total funding

(updated 31 January 2020, based on 29-31 January 2020 submission below)



\$1,200,000	CDBG funds requested (Newton-controlled federal funds)	165-20
\$250,000	Newton Housing Authority contribution	
\$250,000 \$650,000	Village Bank grant Village Bank debt (new)	
\$3,455,000	total project cost	

Funding Process

24-25 June 2019 - pre-proposal, including:

- pre-proposal, including: project summary, property descriptions, maps & budgets
- <u>CAN-DO portfolio capital needs assessment</u>, completed in November 2018 for the Newton Housing Authority, including photos of CAN-DO properties

2 January 2020 - full proposal, divided into the following files:

- proposal with attachments, including: project summary, map & description of CAN-DO's scattered-site housing
 portfolio, market analysis, project team qualifications, affirmative marketing and fair housing policies, letters of
 support; please note revisions below submitted 29 January 2020
- appraisal of CAN-DO portfolio, with photos
- **project finances**, including: sources, uses, and 20-year projections for operating income, operating expenses, replacement reserves and capital needs; please note revisions below submitted 29 January 2020
- <u>organizational information for both the Housing Authority and CAN-DO</u>, including: organizational charts, audits or financial statements, and a description of the Housing Authority's own scattered-site "management portfolio"

29 January 2020 - revised funding request and project finances

31 January 2020 - <u>letters and memos about this proposal (</u>Newton Housing Partnership, Planning & Development Dept. staff, community letters)

11 February 2020 - The CPC voted to recommend the requested funding. Their recommendation will be posted here shortly.

Haywood House/Jackson Road

New Senior Housing

fronting on John F. Kennedy Circle, Newton Corner, MA 02458; rear facing Jackson Road

Click on the following links to

• go directly to this project's proposal #3 to the CPC (submitted June 2018)



RUTHANNE FULLER

MAYOR

City of Newton, Massachusetts Office of the Mayor

196-20

Telephone (617) 796-1100

Telefax (617) 796-1113

TDD (617) 796-1089

E-mail <u>rfuller@newtonma.gov</u>

March 9, 2020

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

Councilors:

I respectfully submit a docket item to your Honorable Council requesting authorization to transfer the sum of \$60,000 from Acct # 0110498-579000 Current Year Budget Reserve to a non-lapsing Public Buildings Department account for the evaluation and recommendations for the upgrade of the Police Headquarters HVAC System.

As detailed in the FY21 – FY25 Capital Improvement Plan, Police Headquarters will undergo a series of improvements over the next several years beginning with \$1 million in HVAC upgrades in FY21.

Thank you for your consideration of this matter.

Sincerely,

Fuller

Ruthanne Fuller Mayor

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Police Headquarters HVAC Improvements Project Summary of \$60,000

- 1. Evaluation of existing HVAC Systems \$6,500
- 2. Recommendations of improvements and replacements of existing HVAC Systems \$10,650
- 3. Design of accepted improvements and replacement HVAC Systems \$40,000
- 4. Contingency \$2,850



RUTHANNE FULLER

MAYOR

City of Newton, Massachusetts Office of the Mayor

197-20

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Telefax (617) 796-1113

TDD (617) 796-1089

E-mail rfuller@newtonma.gov

March 9, 2020

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

Councilors:

I respectfully submit a docket item to your Honorable Council requesting authorization to appropriate \$500,000 from June 30, 2019 Certified Free Cash for the purpose of providing interior and exterior improvements at the Horace Mann School at 225 Nevada Street.

Improvements identified in the FY21 - FY25 Capital Improvement Plan include improvements to the existing playground with programmatically accessible features and new accessible sinks on the second floor among other items.

Thank you for your consideration of this matter.

Sincerely,

Fuller

Ruthanne Fuller Mayor

RECEIVED 2020 MAR -9 PM 4: 58 CITY CLERK NEWTON, MA. 02459



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

February 24, 2020

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

Re: Funding Request for Horace Mann Improvements

Dear Mayor Fuller:

The Public Buildings Department respectfully requests \$500,000 for Interior Improvements and Exterior Improvements at the Horace Mann School at 225 Nevada Street.

Sincerely,

Josh Morse Public Buildings Commissioner

cc: Maureen Lemieux, Chief Financial Officer Alex Valcarce, Deputy Buildings Commissioner Horace Mann Elementary School Interior and Exterior Improvements Project Summary of \$500,000

- 1. Short term but permanent Interior modifications and improvements to the building. These include but are not limited to plumbing, accessibility modifications and general building modifications to create both educational classrooms and learning areas to meet the unique needs of the school \$340,000
- 2. Installation of a new playground to meet existing school's needs \$135,000
- 3. Contingency \$25,000



City of Newton, Massachusetts Office of the Mayor

199-20 Telephone

(617) 796-1100

Telefax (617) 796-1113

TDD (617) 796-1089

E-mail rfuller@newtonma.gov

March 9, 2020

сл Сл

RUTHANNE FULLER MAYOR

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

Councilors:

All of us are watching the evolving COVID-19 situation closely and, understandably, we're all concerned.

Here in the City of Newton, I am working closely with Deb Youngblood (Commissioner of Health and Human Services), Bruce Proia (Acting Emergency Management Director), Michelle Pizzi O'Brien (Human Resources Director), and many others to maintain a safe workplace, to adopt practices protecting the health of all our employees and to help employees if they are impacted by COVID-19 even as we ensure the continuity of municipal operations.

City of Newton Department Heads are also working with City of Newton Health and Human Services to develop specific protocols for their individual Departments. Examples include providing N95 masks for first responders when necessary, making hand sanitizer/wipes available, placing signage about handwashing in public view, and additional steps by our custodians to disinfect our work sites.

With this in mind and out of an abundance of caution, I respectfully submit a docket item to your Honorable Council requesting authorization to appropriate and expend up to \$250,000 from June 30, 2019 Certified Free Cash for the purpose of being prepared to act, should the need arise. Funds should be appropriated to Acct # 0121030-543500 Emergency Operations – Supplies. We will carefully track utilization of these funds and will keep your Honorable Council apprised. 2020 MAR - 9 PM 4:

Thank you for your consideration of this matter.

Sincerely,

Ruthanne Fuller Mayor



RUTHANNE FULLER MAYOR City of Newton, Massachusetts Office of the Mayor 200-20

Telephone (617) 796-1100

Telefax (617) 796-1113

TDD (617) 796-1089

E-mail rfuller@newtonma.gov

March 9, 2020

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

Councilors:

I respectfully submit a docket item to your Honorable Council requesting authorization to accept \$270,000 of lighting equipment as well as authorization to accept more funds to be expended on the installation of a field light system for the Newton South High School Winkler Stadium Field which is on Newton Parks and Recreation property. The funds are being donated by the Newton South High School Booster Club.

Thank you for your consideration of this matter.

Sincerely,

Fuller

Ruthanne Fuller Mayor

RECEIVED



RUTHANNE FULLER MAYOR

NEWTON PARKS, RECREATION

AND CULTURE DEPARTMENT

246 Dudley Road, Newton, MA 02459 Office: (617) 796-1500 TDD/TTY: (617) 796-1089 parks@newtonma.gov





NICOLE BANKS COMMISSIONER

March 9, 2020

Honorable Mayor Ruthanne Fuller Newton City Hall 1000 Commonwealth Ave Newton, MA 02459

Dear Mayor Fuller,

I am writing to respectfully request that you docket with the Honorable City Council for consideration a request for the acceptance of \$270,000 of lighting equipment with technical details attached along with permission to accept more funds to be expended on the installation of a field light system for the Newton South High School Winkler Stadium Field which is on Newton Parks and Recreation property. The funds are being donated by the Newton South High School Booster Club.

Thank you for your consideration in this matter.

Sincerely,

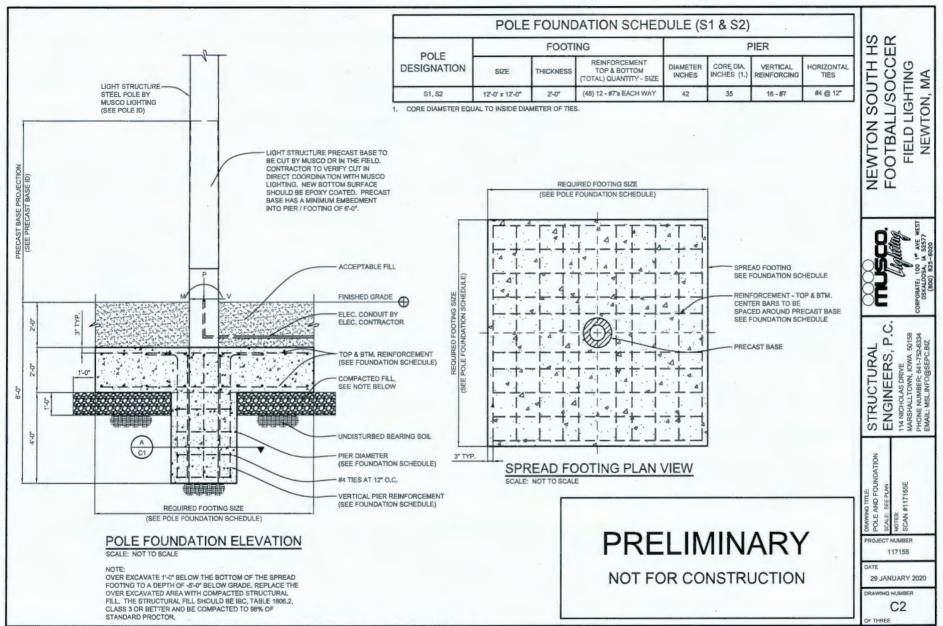
Nicole Banks, Commissioner

CC: Jonathan Yeo, Chief Operating Officer Maureen Lemieux, Chief Financial Officer

	POLE	DENTIFI	ICATION AN	ID RESUL	TANT FO	RCES		DESIGN NOTES	10.01
POLE	POLE	PRECAST	FIXTURE	FIXTURE AND		FORCES (1.)		DESIGN PARAMETERS: WIND: V _{ut} = 127 MPH, V _{and} = 98 MPH (EXPOSURE C, RISK CATEGORY II) PER	R R
DESIGNATION		BASE TYPE	CONFIGURATION (FIX. PER XARM)	ACCESSORIES EPA (FT ²)	MOMENT (M) FT-LBS	SHEAR (V) LBS	VERTICAL (P) LBS	MASSACHUSETTS STATE BUILDING CODE - 760 CMR, 9TH EDITION (IBC 2015 / ASCE 7-10). GEOTECHNICAL PARAMETERS:	I SOUTH LL/SOCC LIGHTING TON, MA
S1, S2	LSS80C	6B	11 (5+4)	29.4	152,192	2,986	4,037	ALLOWABLE END BEARING SOIL PRESSURE: 1,200 PSF (S1 & S2) LATERAL SOIL RESISTANCE PARAMETERS: AS PROVIDED IN SOIL REPORT	
\$3, \$4	LSS80C	68	12 (5+4)	29.6	152,452	2,991	4,087	IN ACCORDANCE WITH MASSACHUSETTS STATE BUILDING CODE - 780 CMR, 9TH EDITION, CHAPTER 18.	D S I D S
VERTICAL FORM		ED FIXTURE AT	70'-0" AGL INCLUDED A 15'-6" AGL INCLUDED					OVER EXCAVATE 1-0" BELOW THE BOTTOM OF THE SPREAD FOOTING TO A DEPTH OF -5-0" BELOW GRADE, REPLACE THE OVER EXCAVATED AREA WITH COMPACTED STRUCTURAL FILL. THE STRUCTURAL FILL SHOULD BE IBC, TABLE 1806.2, CLASS 3 OR BETTER AND BE COMPACTED TO 98% OF STANDARD PROCTOR. DESIGN SOIL PARAMETERS ARE AS NOTED. ACTUAL ALLOWABLE SOIL PARAMETERS MUST BE VERIFIED ON SITE. REFERENCE SOILS AND FOUNDATION REPORT, FILE NO.	NEWTON SO FOOTBALL/S FIELD LIGH NEWTON
								01.0174475.00, PREPARED BY GZA GEOENVIRONMENTAL, INC.; BOSTON, MA. A GEOTECHNICAL ENGINEER OR REPRESENTATIVE OF IS RECOMMENDED (NOT REQUIRED) TO BE AVAILABLE AT THE TIME OF THE FOUNDATION INSTALLATION TO VERIFY THE SOIL DESIGN PARAMETERS AND TO PROVIDE ASSISTANCE IF ANY PROBLEMS ARISE IN FOUNDATION INSTALLATION.	
			ID FOR SP		oting (S			ENCOUNTERING SOIL FORMATIONS THAT WILL REQUIRE SPECIAL DESIGN CONSIDERATIONS OR EXCAVATION PROCEDURES MAY OCCUR. POLE FOUNDATIONS WILL NEED TO BE ANALYZED ACCORDING TO THE SOIL CONDITIONS THAT EXIST. IF ANY DISCREPANCIES OR INCONSISTENCIES ARISE, NOTIFY THE ENGINEER OF SUCH DISCREPANCIES, FOUNDATIONS WILL THEN BE REVISED ACCORDINGLY. REVISIONS WILL BE ANALYZED PER RECOMMENDATIONS DIRECTED BY A REGISTERED ENGINEER.	Lingletter
PRECAST BASE TYPE 6B	PRECAST BASE WEIGHT (1.) 6.930 LBS	PRECAST BASE LENGTH (1.) 26'-1"	PROJECTION ABOVE GRADE 8'-1"	STANDARD EMBEDMENT (1.) 18'-0"	OUTSIDE DIAMETER	CUT LENGTH OFF BOTTOM (2.) 10'-0"	EMBEDMENT INTO FOOTING & PIER (3.) 6'-0"	ALL EXCAVATIONS MUST BE FREE OF LOOSE SOIL AND DEBRIS PRIOR TO FOUNDATION INSTALLATION AND CONCRETE BACKFILL PLACEMENT. FOR DRILLED PIERS, TEMPORARY CASINGS OR DRILLERS SLURRY MAY BE USED TO STABILIZE THE EXCAVATION DURING INSTALLATION. CASINGS MUST BE REMOVED DURING CONCRETE	CORPORATE CORPORATE
2. EPOXY COAT N	EW BOTTOM SURF	ACE OF PRECAS	D EMBEDMENT ARE PF ST BASE AFTER CUTTI PLUS 4-0" PIER HEIGH	NG				BACKFILL PLACEMENT. CONCRETE BACKFILL MUST BE PLACED WITH A TREMIE WHEN SLURRY OR WATER IS PRESENT WITHIN THE EXCAVATION OR WHEN THE FREE DROP EXCEEDS 6-0*. CONTRACTOR MUST BE FAMILIAR WITH THE COMPLETE SOIL INVESTIGATION REPORT AND BORINGS, AND CONTACT THE GEOTECHNICAL FIRM (IF NECESSARY) TO UNDERSTAND THE SOIL CONDITIONS AND THE POSSIBILITY OF GROUND WATER PUMPING AND EXCAVITION STABILIZATION OR BRACING DURING PRECAST BASE	RAL RS, P.C. SNA 50158 MA 50158 MITTZ-6334
								INSTALLATION AND PLACEMENT OF CONCRETE BACKFILL.	AEEF AS DRIV TOWN, IC
									STRUCTURAL ENGINEERS, P.O. 144 NICHOLAS DRIVE MARISHALLTDWN, IOWA 50158 PHONE NUMBER 5477253333
	PR	GHT STRUCTURE		DNCRETE	REINFO	RCEMEN	T NOTES	INSTALLATION AND PLACEMENT OF CONCRETE BACKFILL. <u>GENERAL NOTES:</u> FIXTURES MUST BE LOCATED TO MAINTAIN 10°-0° MINIMUM HORIZONTAL CLEARANCE FROM ANY OBSTRUCTION. ENGINEER MUST BE NOTIFIED IF FOUNDATIONS ARE NEAR ANY RETAINING WALLS OR WITHIN / NEAR ANY SLOPES STEEPER THAN 3H: 1V. POLES, FIXTURES, PRECAST BASES, ELECTRICAL TEMS AND INSTALLATION PER MUSCO	
	9 4 4 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	RECAST BASE EE PRECAST BA TIES AT 12° O.C MIN. 18° LAP SP TAGGER SPLICE	ASE SCH.) CONC MIXTL C. AGG PUICE ACI 3 ES) HAVE COMF DESIC	RETE SHALL CON JRE WITH ASTM C REGATES (MAX 0.7 18. CONCRETE SI A MAXIMUM WATI PRESSIVE STRENG SN SLUMP LIMITS	PLY WITH THE FC 64, PORTLAND CC 5") WITH ASTM C- IALL BE AIR-ENTR R-CEMENT RATIC TH AT 28 DAYS O ARE 4" MINIMUM A SED BY THE USE	LLOWING ASTM S MENT WITH ASTM 33 AND BE IN CON AINED (COMPLY W), w/cm = 0.45 AND	TANDARDS: I C-150 TYPE 1-A, FORMANCE WITH (TH ASTM C-260), HAVE A MINIMUM); 3,000 PSI (S3, S4). THE JOB SITE	INSTALLATION AND PLACEMENT OF CONCRETE BACKFILL. <u>GENERAL NOTES:</u> FIXTURES MUST BE LOCATED TO MAINTAIN 10°-0° MINIMUM HORIZONTAL CLEARANCE FROM ANY OBSTRUCTION. ENGINEER MUST BE NOTIFIED IF FOUNDATIONS ARE NEAR ANY RETAINING WALLS OR WITHIN / NEAR ANY SLOPES STEEPER THAN 3H: 1V. POLES, FIXTURES, PRECAST BASES, ELECTRICAL TEMS AND INSTALLATION PER MUSCO	
	PF (SI (SI (SI (SEE (SEE))	RECAST BASE EE PRECAST BA TIES AT 12" O.C MIN. 18" LAP SP	ASE SCH.) CONC MIXTI C. AGGF PLICE ACI 3 ES) HAVE COMF COMF DESIC SLUM FORCEMENT MEET DULE) CONC	RETE SHALL CON IRE WITH ASTM C LEGATES (MAX 0.7 18. CONCRETE SI A MAXIMUM WATI RESSIVE STRENC SIN SLUMP LIMITS . MAY BE INCREA ING ASTM C494-92 RETE REINFORCI	PLY WITH THE FO 64, PORTLAND CC 5) WITH ASTM C-4 IALL BE AIR-ENTR R-CEMENT RATIO TH AT 28 DAYS O ARE 4" MINIMUM A SED BY THE USE	ALLOWING ASTM S EMENT WITH ASTM 33 AND BE IN CON AINED (COMPLY w 0, w/cm = 0.45 AND F 4,500 PSI (S1, S2 ND 6° MAXIMUM. OF A WATER REDI	TANDARDS: IC-150 TYPE 1-A, FORMANCE WITH ITH ASTM C-280), HAVE A MINIMUM J; 3,000 PSI (S3, S4). THE JOB SITE JCING AGENT	INSTALLATION AND PLACEMENT OF CONCRETE BACKFILL. <u>GENERAL NOTES:</u> FIXTURES MUST BE LOCATED TO MAINTAIN 10°-0° MINIMUM HORIZONTAL CLEARANCE FROM ANY OBSTRUCTION. ENGINEER MUST BE NOTIFIED IF FOUNDATIONS ARE NEAR ANY RETAINING WALLS OR WITHIN / NEAR ANY SLOPES STEEPER THAN 3H : 1V. POLES, FIXTURES, PRECAST BASES, ELECTRICAL ITEMS AND INSTALLATION PER MUSCO LIGHTING.	DRAWING TTLE: POLE AND FOUNDATION POLE AND FOUNDATION POLE SEE PLAN MOTES: SCAN #117155E

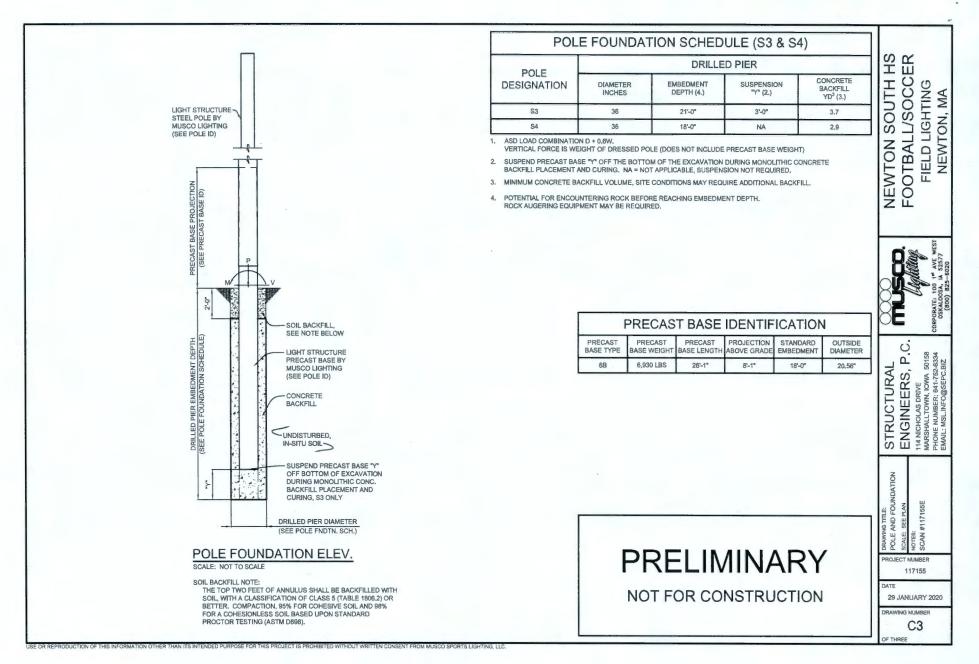
DIAMETER - SEE FOOTING SCH.

200-20



USE OR REPRODUCTION OF THIS INFORMATION OTHER THAN ITS INTENDED PURPOSE FOR THIS PROJECT IS PROHIBITED WITHOUT WRITTEN CONSENT FROM MUSCO SPORTS LIGHTING, LLC.

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Project Specific Notes:

Materials Checklist

Contractor/Customer Supplied:

- A dedicated control circuit must be supplied per distribution panel location.
 - If the control voltage is NOT available, a control transformer is required.
- Electrical distribution panel to provide overcurrent protection for circuits
 - HID rated or D-curve circuit breaker sized per full load amps on Circuit Summary by Zone Chart
- U Wiring:
 - See chart on page 2 for wiring requirements
 Equipment grounding conductor and splices
 - must be insulated. (per circuit) — Lightning ground protection (per pole), if not Musco supplied.
- Electrical conduit wireway system
 - Entrance hubs rated NEMA 4: must be die-cast zinc, PVC, or copper-free die-cast aluminum
- Mounting hardware for cabinets
- Breaker lock-on device to prevent unauthorized power interruption to control power and powerline connection (if present)
- Anti-corrosion compound to apply to ends of wire, if necessary

Call Control-Link Central ™ operations center at 877/347-3319 to schedule activation of the control system upon completion of the installation. Note: Activation may take up to 1 1/2 hours

Control System Summary

Project Information

Project #: 117155 Project Name: Newton South High School Football/Soccer Date: 02/14/20 Project Engineer: TLanphier Sales Representative: Mike Berry Control System Type: LED C&M PowerLine-ST Communication Type: Scan: 117155F Document ID: 117155P1V4-0214092014 Distribution Panel Location or ID: Electrical Service #1 Total # of Distribution Panel Locations for Project: Design Voltage/Hertz/Phase: 208/60/3 Control Voltage: 120

Equipment Listing

of distribution panels

 DESCRIPTION
 APPROXIMATE SIZE

 1.Control and Monitoring Cabinet
 24 X 48

 Paralleline
 24 X 48

 Total Contactors
 24 X 48

 Total Off/On/Auto Switches:
 1

 Control and Monitoring Cabinet
 1

IMPORTANT NOTES

- Please confirm that the design voltage listed above is accurate for this facility. Design voltage/phase is defined as the voltage/phase being connected and utilized at each lighting pole's electrical components enclosure disconnect. Inaccurate design voltage/phase can result in additional costs and delays. Contact your Musco sales representative to confirm this item.
- 2. In a 3 phase design, all 3 phases are to be run to each pole. When a 3 phase design is used Musco's single phase luminaires come pre-wired to utilize all 3 phases across the entire facility.
- One contactor is required for each pole. When a pole has multiple circuits, one contactor is required for each circuit. All contactors are UL 100% rated for the published continuous load. All contactors are 3 pole.
- If the lighting system will be fed from more than one distribution location, additional equipment may be required. Contact your Musco sales representative.
 A single control circuit must be supplied per control system.
- Size overcurrent devices using the full load amps column of the Circuit Summary By Zone chart- Minimum power factor is 0.9.

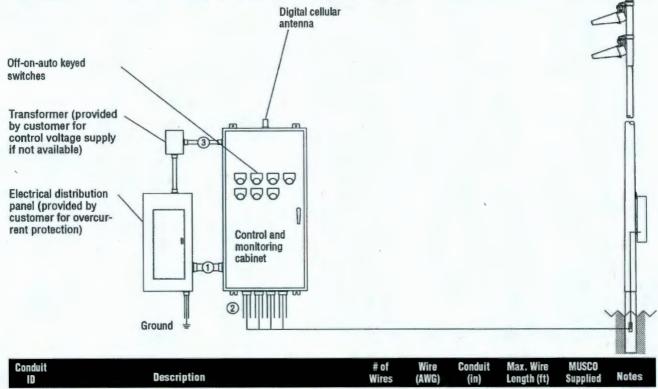
NOTE: Refer to Installation Instructions for more details on equipment information and the installation requirements

© 1999,2020 Musco Sports Lighting,LLC Form: T-5030-1



Newton South High School Football/Soccer / 117155 - 117155F Electrical Service #1 - Page 2 of 4

Control·Link. Control and Monitoring System



UD.		MIICO	(Alle)	tiny	rouges (ed	anhhuan	
1	Line power to contactors, and equipment grounding conductor	*A	*B	*C	N/A	No	A-E
1	Power-line Communication Connection (dedicated, 20A)	*A	12	*C	N/A	No	A-E
2	Load power to lighting circuits, and equipment grounding conductor	*A	*В	*C	N/A	No	A-E
3	Control power (dedicated, 20A)	3	12	*C	N/A	No	C,E

* Notes:

R60-100-00_A

A. See voltage and phasing per the notes on cover page.

B. Calculate per load and voltage drop.

C. All conduit diameters should be per code unless otherwise specified to allow for connector size.

D. Equipment grounding conductor and any splices must be insulated.

E. Refer to control and monitoring system installation instructions for more details on equipment information and the installation requirements.

IMPORTANT: Control wires (3) must be in separate conduit from line and load power wires (1, 2).





Control System Summary

Newton South High School Football/Soccer / 117155 - 117155F Electrical Service #1 - Page 3 of 4

SWITCHING SCHEDULE

Field/Zone Description	Zones
FB/SO	1

CONTROL P	OWER CONSUMPTION
120V Single F	Phase
VA loading	INRUSH: 1553.0
of Musco Supplied	SEALED: 179.8
Equipment	SEALED. 119.0

	CIRCUI	SUMMAR	RY BY Z	ONE			
POLE	CIRCUIT DESCRIPTION	# OF FIXTURES	# OF DRIVERS	*FULL LOAD AMPS	CONTACTOR SIZE (AMPS)	CONTACTOR ID	ZONE
S1	FB/SO	11	11	50.1	60	C1	1
S2	FB/SO	11	11	50.1	60	C2	1
S3	FB/SO	11	11	50.1	60	C3	1
S4	FB/SO	11	11	50.1	60	C4	1

*Full Load Amps based on amps per driver.



Control System Summary

Newton South High School Football/Soccer / 117155 - 117155F Electrical Service #1 - Page 4 of 4

-			PANEL SUMMARY			
CABINET #	CONTROL MODULE LOCATION	CONTACTOR ID	CIRCUIT DESCRIPTION	FULL LOAD AMPS	DISTRIBUTION PANEL ID (BY OTHERS)	CIRCUIT BREAKER POSITION (BY OTHERS)
1	1	C1	Pole S1	50.07		
1	1	C2	Pole S2	50.07		
1	1	C3	Pole S3	50.07		
1	1	C4	Pole S4	50.07		

ZONE SCHEDULE						
-			CIRCUIT	DESCRIPTION		
ZONE	SELECTOR SWITCH	ZONE DESCRIPTION	POLE ID	CONTACTOR ID		
Zone 1	1	FB/SO	S1	C1		
			S2	C2		
			S3	C3		
			S4	C4		

Newton South High School Football/Soccer

Lighting System

Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
S1-S4	80'	80'	9	TLC-LED-1500	12.87 kW	A
		16'	2	TLC-BT-575	1.15 kW	A
4	-	-	- 44		58.08 kW	-

A Soccer 58.08 kW 44

Type	Source	Wattage	Lumens	L90	LIO	L70	Quantit
TLC-BT-575	LED 5700K - 75 CRI	575W	52,000	>81,000	>81,000	>81,000	8
TLC-LED-1500	LED 5700K - 75 CRI	1430W	160,000	>81,000	>81,000	>81,000	36

alculation Grid Summa	iry and the second second second							
Grid Name	Calculation Metric			Bumination			Circuita	Fixture Qt
		Ave	Min	Max	Max/Min	Ave/Min		
Bleachers	Horizontal Illuminance	0	0	0	0.00	1	В	0
Football	Horizontal Illuminance	51	41	59	1.48	1.24	A	44
Property Line	Horizontal	0	0	0.04	0.00		A,B	44
Property Line	Max Candela (by Fixture)	286	0	2317	0.00		A,B	44
Property Line	Max Vertical Illuminance Metric	0.01	0	0.08	0.00		A,B	44
Soccar	Horizontal Illuminance	50.1	41	59	1.46	1.22	A	44
Wetlands Grid	Horizontal	0.01	0	2	0.00		A,B	44
Zero Grid	Horizontal	14.6	0	62	12539.03		A.B	44

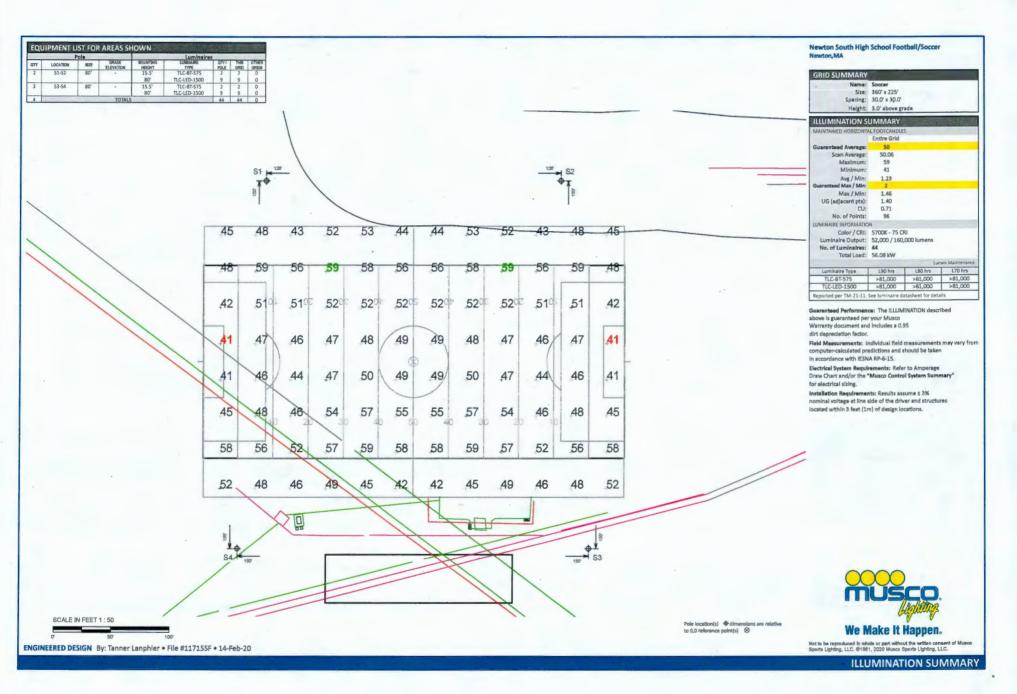
From Hometown to Professional

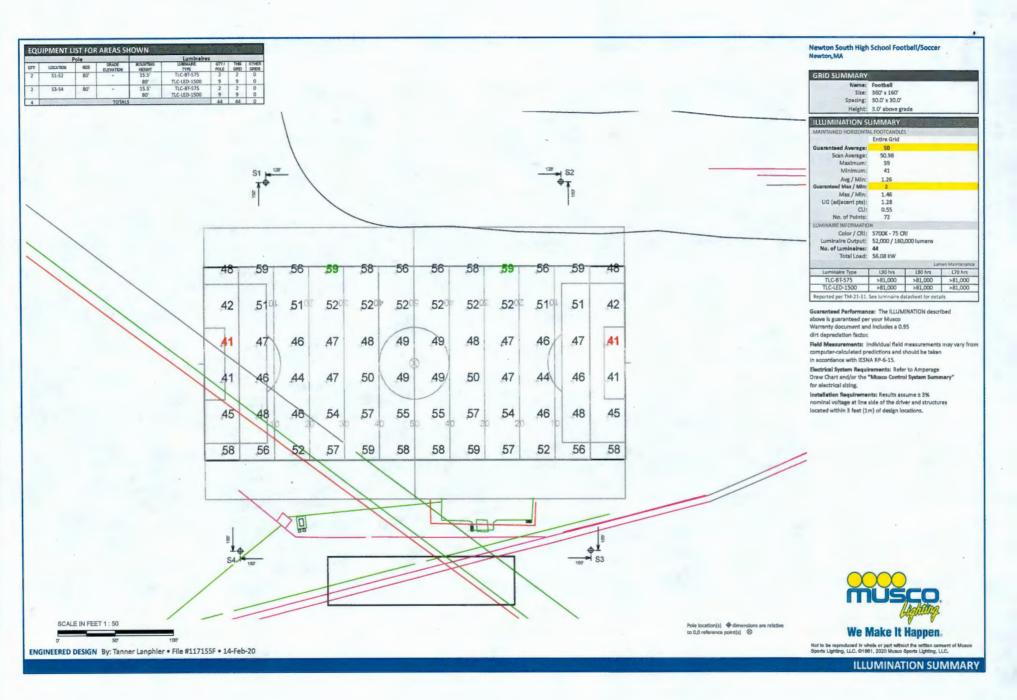




PROJECT SUMMARY

ENGINEERED DESIGN By: Tanner Lanphier • File #117155F • 14-Feb-20





EQUIPMENT LIST FOR AREAS SHOWN Pole Of Location Register Listing Of Location Register Listing Register	Newton South High School Football/Soccer Newton,MA
Ann. Control Head EEXAMON Heigherr TYPE Port amon 2 51:52 80° - 80° TLC-LED-1500 9 9 0 2 53:54 80° - 55:55 TLC-LED-1500 9 9 0	GRID SUMMARY Name: Zero Grid
80' TLC-LED-1500 9 9 0 4 TOTALS 44 44 0	She: 360' x 160' Spading: 40.0' x 40.0' Height: 3.0' above grade
	ILLUMINATION SUMMARY MAINTAINED HORIZONTAL FOOTCANDLES
	Entire Grid Scan Average: 14,63 Maximum: 52
	Minimum: 0 Avg/Min: 2980.88
	Max / Min: 12539.03 UG (adjacent pts): 31.56
	CU: 0.93 No. of Points: 240 LUMINARE INFORMATION
The second of the second se	Color / CRI: 5700K-75 CRI Luminaire Output: 52,000 / 160,000 lumens No. of Luminaires: 44
	Total Load: <u>56,08 kW</u> Lumen Manteram Luminaire Type <u>150 hrs</u> L80 hrs <u>170 hrs</u>
	TLC-BF575 881,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 >81,000 %81,000 %81,000
	Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco
	Warranty document and includes a 0.95 dirt depredation factor.
	Rick Measurements: Individual field measurements may vary for computer-calculated predictions and should be taken in accordance with ISNA RPs-61.5.
	Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Masco Control System Summary"
	for electrical sizing. Installetion Regultements: Results assume ± 3%
	nominal voitage at line side of the driver and structures located within 3 feet (1m) of design locations.
Inst Contract Inte Kay Light Start ToPC Control Support Oner Start CoPC	MUSCO.
SCALE IN FEET 1: 200 σ 20σ 40σ	Pole location(s) & dimensions are relative to 0,0, reference point(s) & We Make It Happen.



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	Seven Amage Seven Amage GRID SUMMARY Seven Amage Marrie & Wethands Grid Size 360'' x 160' Specing: 20.0'' x 20.0'' Height: 3.0'' above grade ILLUMINATION SUMMARY Maintraine: Maintraine: 0.0'' Maintraine: 0.0'' Maximum: 2 Minimum: 0 Awg Min: - Max / Min: - UG (sidjacen trpt): 1.4.1.3 CU: 0.00 No. of Points: 1.428 Luminaire Output: 5.200/ 1.60,000 lumeres No. of Joints: 1.428 Luminaire Output: 5.200/ 1.60,000 lumeres No. of Clait: 5.700 / 3.60,000 lumeres No. of Luminaires: 44 Total Lad: 5.60.6 kW Luminaire Type 190 hrs 100 hrs TLC-E17-575 >81,000 >81,000 >81,000 Reported per Mid-111. See Levin-faare datasheet for detata 81,000 >81,000 >81,000
In the set of the s	MULUMINATION SUMMARY MAINTAINED HORIZONTAL FOOTCANDLES Endre Grid Scan Average: 0.0 Maximum: 2 Minimum: 0 Avg / Min: - UG (adjacent pts): 14.13 Cool 0.00 No. of Points: 14.28 LUMINARE INFORMATION Color / CRI: Color / CRI: 52,000 / 160,000 luments No. of Liminalines / L20 hts Laton the arthr and Total Load: 56.08 kW Lament Manthers #1 TLC-EF1-550 >81,000 >81,000 >81,000
e na na se	Suamated Performance: The ILLUMINATION described shove is guaranteed per your Musco Warranty document and Includes a 0.35 Sift deprecision factor: Reid Measurements: Individual field measurements may vary for compute-calculated predictions and should be taken a accordance with IESNA RP-6-15. Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" tor electrical sizing. Installeton Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (Im) of design locations.
SCALE IN FEET 1: 120 Pole location(s)	Lighting
	We Make It Happen

ILLUMINATION SUMMARY

Pole Bio	Newton South High School Football/Soccer Newton,MA
arry Loca Tool Mode Theo Mode Theo Mode Theo Mode Theo 2 51-52 60° FLAMTMSH 80° TLC-LED-1500 9 9 0 2 53-54 60° - 15.5° TLC-LED-1500 9 9 0 2 53-54 60° - 15.5° TLC-LED-1500 9 9 0 4 - TOTAL5 - 444 0 - - - 44 - - - - - - - - 44 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - </td <td>GRID SUMMARY Name: Property Une Spacing: 3.0.7 Height: 3.07 above grade</td>	GRID SUMMARY Name: Property Une Spacing: 3.0.7 Height: 3.07 above grade
	ILLUMINATION SUMMARY
	Entrie Grid Scan Avenage: 10.0038 Maximum: 0.04
	Minimum: 0.00 No. of Points: 47 LUMINNRE INFORMATION
your 1	Color / CRI: 5700K - 75 CRI Luminaire Output: 52,000 / 160,000 lumens No. of Luminaires: 44 Total Load: 55.08 kW
S1 \$2	Luminaire Type 190 hrs 120 hrs TLC-87:575 >81,000 >81,000 >81,000 TLC-120:1500 >81,000 >81,000 >81,000 TLC-120:1500 >81,000 >81,000 >81,000 Reported per TM-71:15.ee lum-naire databated >81,000 >81,000
e e e e e e e e e e e e e e e e e e e	Guarantaed Performance: The ILLUMINATION described above is guarantaed per your Musco Warranty
	document. Field Mesurements: Individual field messurements may vary from computer-calculated predictions and should be taken In accordance with IESNA RP-6-15. Electrical System Requirements: Electrical System Requirements: Electrical System Requirements: System Summary"
S4 \$3 O BUILT A	Unaw Chart and/or the "Musice Control System Summary" for electrical sizing. Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures
The second secon	located within 3 feet (1m) of design locations.
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SCALE IN FEET 1: 200	
0 [°] 200 [°] 400 [°]	Pole location(s) & dimensions are relative to 0.0 reference point(s) & We Make It Happen. Not to be reproduced in whole or part without the written content of Musco Sports Lighting, LLC. Of 1851, 2020 Musco Sports Lighting, LLC.
NGINEERED DESIGN By: Tanner Lanphier • File #117155F • 14-Feb-20	Sports Lighting, LLC. @1881, 2020 Musico Sports Lighting, LLC.

EQUIPMENT LIST FOR AREAS SHOWN	Newton South High School Football/Soccer Newton,MA
driv LOCLIMON HEXA EAUXATING HEXAMINE HE	GRID SUMMARY Name: Property Une Spacing: 30.0" Height: 3.0" above grade
	ILLUMINATION SUMMARY Max VERICAL FOOTCANOLS Entire Grid
	Scan Average: 0.0098 Maximum: 0.08 Minimum: 0.00 No. of Points: 47 LUMINARE INFORMATION
yme 1	Color / CRI: 5700K - 75 CRI Luminaire Output: 52,000 / 160,000 lumens Ne. of Luminaires: 44 Total Load: 56.08 kW
S1	Luminaire Type L90 hm L80 hm L00 hm L00 hm TLC-87-575 >81,000 >81,000 >81,000 >81,000 TLC-LED-1500 >881,000 >81,000 >81,000 >81,000 TLC-LED-1500 >881,000 >81,000 >81,000 >81,000
	Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.
	Held Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken In accordance with ISEAA RP-6-15. Electrical System Requirements: Refer to Amperage
S4 S3 O IBUI	Draw Chart and/or the "Musco Control System Summary" for electrical string. Installation Requirements: Results assume ± 3% nominal voltage at line side of the Advar and structures located within 5 Met (Jun) of design locations.
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SCALE IN FEET 1: 200 2007 4007 ENGINEERED DESIGN By: Tanner Lanphier • File #117155F • 14-Feb-20	Pole location(s)
	ILLUMINATION SUMMARY

200-20

UIPMENT LIST FOR AREAS SHOWN Pole Luminaires Using Usi	Newton South High School Football/Soccer Newton,MA
LOCATION MICH FLEWATION HEIGHT TYME POLE GHD	GRID SUMMARY Name: Property Line
S3-54 B0' - 15.5' TLC-8T-575 2 2 0 TOTALS B0' TLC-8T-570 2 9 0 0 0	Spacing: 30.0' Height: 3.0'above grade
	ILLUMINATION SUMMARY
	CANDELA (PER FOXTURE) Entire Grid
	Scen Average: 286.1185 Maximum: 2316.63
	Minimum: 0.00 No. of Points: 47
	LUMINAIRE INFORMATION Color / CRI: 5700K - 75 CRI
- the second sec	Luminaire Output: 52,000 / 160,000 lumens No. of Luminairea: 44
S1 52 14	Total Load: 56.08 kW Lumen Maintenand
S1 S2	Luminaire Type L90 hrs L80 hrs L70 hrs TLC-BT-575 >81,000 >81,000 >81,000
I have and have and have a second sec	TLC-LED-1500 >81,000 >81,000 >81,000 Reported per TM-21-11. See furnihaire datasheet for details.
	Guaranteed Parformance: The ILLUMINATION described above is guaranteed per your Musco Warranty
	document. Field Measurements: Individual field measurements may vary fro
off off the	computer-calculated predictions and should be taken In accordance with IESNA RP-6-15.
	Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summery"
S4 53 O BU II A	for electrical sizing. Installation Requirements: Results assume ± 3%
	nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.
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SCALE IN FEET 1: 200 Pole	scation(s) ♦dimensions are relative reference point(s) ⊗ We Make It Happen。
0° 200' 400'	
NEERED DESIGN By: Tanner Lanphier • File #117155F • 14-Feb-20	Not to be reproduced in whole or part without the written consent of Musco Sports Lighting, LLC. @1861, 2020 Musco Sports Lighting, LLC.



ENGINEERED DESIGN By: Tanner Lanphier • File #117155F • 14-Feb-20



EQUIPMENT LAYOUT

Ruthanne Fuller Mayor

City of Newton, Massachusetts

Department of Planning and Development 1000 Commonwealth Avenue Newton, Massachusetts 02459 Telephone (617) 796-1120 Telefax (617) 796-1142 TDD/TTY (617) 796-1089 www.newtonma.gov

Barney S. Heath Director

January 31, 2020

Luis Perez-Demorizi City of Newton Parks, Recreation, and Culture 246 Dudley Road Newton, MA 02459

RE: 140 Brandeis Road, Request for Determination of Applicability

Project summary

- Install 4 field light poles at the currently unlit Newton South High School field, with related trenching for electrical wiring.
- Work within the buffer zone is limited to the installation of the bases for 2 of the light structures and the trenching
 associated with the necessary electrical conduit.
- Erosion controls are proposed to be installed between the proposed lights and the resource area.

Approved plans

- "Electrical Site Plan E1.01" prepared by Richard Alexy (1/12/20)
- "Illumination Summary (wetlands grid)" prepared by Musco (11/11/19)
- "Newton South High School Football/Soccer Lighting Design" by Musco (10/4/19)

Dear Mr. Perez-Demorizi:

Enclosed is the Newton Conservation Commission's Determination of Applicability under the Wetlands Protection Act, MGL Ch. 131, s. 40 and the Newton Floodplain/Watershed Protection Ordinance, Section 22-22. The Determination is "Negative-Conditional", i.e., the Commission has determined that <u>by following the referenced plan(s) and the following mandatory conditions listed below, no</u> adverse alteration of the wetland resource area will occur and so no further wetland filing is needed.

- The applicant must schedule and attend a pre-construction site visit to check erosion controls.
- All spoils from trenching and auguring must be properly disposed of off-site.
- Concrete for the footings must be mixed on site to reduce waste. Any excess concrete must be properly disposed of off-site.
- Any concrete washout must occur outside the 100' buffer zone.
- All disturbed areas must be fine-graded, loamed, and seeded to ensure permanent stabilization.

If you have any questions regarding this Determination, please contact me.

Sincerely Claire Rundelli Assistant Environmental Planner

CC: Wetlands Division, DEP - NERO, 205B Lowell St., Wilmington, MA 01887

Preserving the Past 🕅 Planning for the Future

200-20



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

WPA Form 2 – Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Important: When filling out forms on the computer, use only the tab key to move your cursor do not use the return key.

From:

Newton

	Conservation Commission				· · ·	·
To:	Applicant	•	11 .		Property Owner (if different from	n applicant):
	Luis Perez Demorizi, I	Parks, Rec.,	and Culture		City of Newton	
	Name				Name	
	246 Dudley Road		. :		1000 Commonwealth Ave	
	Mailing Address		*		Mailing Address	
	Newton	MA	02459		Newton MA	02459
	City/Town	State	Zip Code	•	Clty/Town State	Zip Code

1. Title and Date (or Revised Date if applicable) of Final Plans and Other Documents:

"Electrical Site Plan E1.01" prepared by Richard Alexy	1/12/20
Title	Date
"Illumination Summary (wetlands grid)" prepared by Musco	11/11/19
Tille	Date
"Newton South High School Football/Soccer Lighting Design" by Musco	10/4/19
Tille	Date

2. Date Request Filed:

A. General Information

1/14/20

B. Determination

Pursuant to the authority of M.G.L. c. 131, § 40, the Conservation Commission considered your Request for Determination of Applicability, with its supporting documentation, and made the following Determination.

Project Description (if applicable):

The scope of work at the Newton South High School Field encompasses the retrofitting of the unlit field with new high efficiency lighting that will help extend the playability of the fields. Excavation occuring on the WPA jurisiction involves digging the light pole foundations and trenching associated with the installation of new electrical conduit. The lighting proposed at the fields has been designed for the least possible spillage.

Project Location:

140 Brandeis Road Street Address 81051 Assessors Map/Plat Number

	 Parcel/Lot I	Numb	er
	0047		• .
	City/ I own		

Newton



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

WPA Form 2 – Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

B. Determination (cont.)

The following Determination(s) is/are applicable to the proposed site and/or project relative to the Wetlands Protection Act and regulations:

Positive Determination

Note: No work within the jurisdiction of the Wetlands Protection Act may proceed until a final Order of Conditions (issued following submittal of a Notice of Intent or Abbreviated Notice of Intent) or Order of Resource Area Delineation (issued following submittal of Simplified Review ANRAD) has been received from the issuing authority (i.e., Conservation Commission or the Department of Environmental Protection).

1. The area described on the referenced plan(s) is an area subject to protection under the Act. Removing, filling, dredging, or altering of the area requires the filing of a Notice of Intent.

☐ 2a. The boundary delineations of the following resource areas described on the referenced plan(s) are confirmed as accurate. Therefore, the resource area boundaries confirmed in this Determination are binding as to all decisions rendered pursuant to the Wetlands Protection Act and its regulations regarding such boundaries for as long as this Determination is valid.

2b. The boundaries of resource areas listed below are <u>not</u> confirmed by this Determination, regardless of whether such boundaries are contained on the plans attached to this Determination or to the Request for Determination.

3. The work described on referenced plan(s) and document(s) is within an area subject to protection under the Act and will remove, fill, dredge, or alter that area. Therefore, said work requires the filing of a Notice of Intent.

☐ 4. The work described on referenced plan(s) and document(s) is within the Buffer Zone and will alter an Area subject to protection under the Act. Therefore, said work requires the filing of a Notice of Intent or ANRAD Simplified Review (if work is limited to the Buffer Zone).

5. The area and/or work described on referenced plan(s) and document(s) is subject to review and approval by:

Name of Municipality

Pursuant to the following municipal wetland ordinance or bylaw:

Name

Ordinance or Bylaw Citation



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands

WPA Form 2 – Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

B. Determination (cont.)

- 6. The following area and/or work, if any, is subject to a municipal ordinance or bylaw but not subject to the Massachusetts Wetlands Protection Act:
- 7. If a Notice of Intent is filed for the work in the Riverfront Area described on referenced plan(s) and document(s), which includes all or part of the work described in the Request, the applicant must consider the following alternatives. (Refer to the wetland regulations at 10.58(4)c. for more information about the scope of alternatives requirements):
 - Alternatives limited to the lot on which the project is located.
 - Alternatives limited to the lot on which the project is located, the subdivided lots, and any adjacent lots formerly or presently owned by the same owner.
 - Alternatives limited to the original parcel on which the project is located, the subdivided parcels, any adjacent parcels, and any other land which can reasonably be obtained within the municipality.
 - Alternatives extend to any sites which can reasonably be obtained within the appropriate region of the state.

Negative Determination

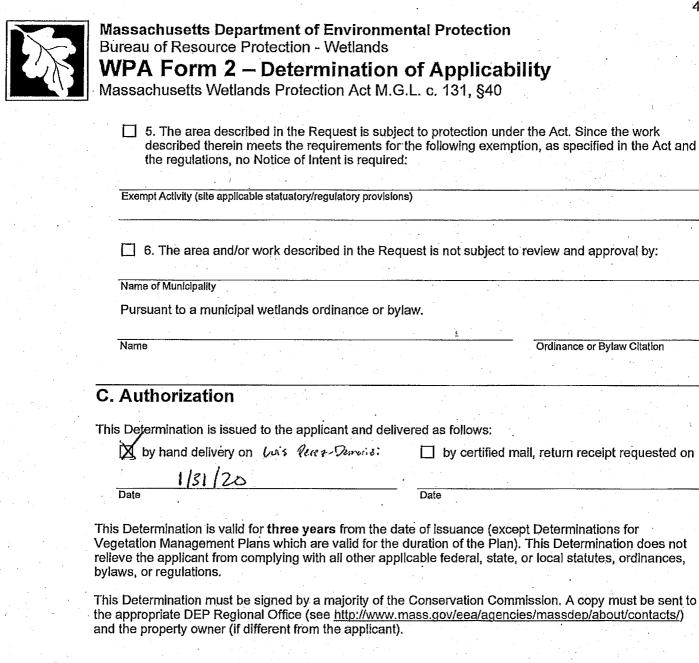
Note: No further action under the Wetlands Protection Act is required by the applicant. However, if the Department is requested to issue a Superseding Determination of Applicability, work may not proceed on this project unless the Department fails to act on such request within 35 days of the date the request is post-marked for certified mail or hand delivered to the Department. Work may then proceed at the owner's risk only upon notice to the Department and to the Conservation Commission. Requirements for requests for Superseding Determinations are listed at the end of this document.

- 1. The area described in the Request is not an area subject to protection under the Act or the Buffer Zone.
- 2. The work described in the Request is within an area subject to protection under the Act, but will not remove, fill, dredge, or alter that area. Therefore, said work does not require the filing of a Notice of Intent.
- 3. The work described in the Request is within the Buffer Zone, as defined in the regulations, but will not alter an Area subject to protection under the Act. Therefore, said work does not require the filing of a Notice of Intent, subject to the following conditions (if any).

1) Applicant must schedule and attend a pre-construction site visit to check erosion controls. 2) All spoils from trenching and auguring shall be properly disposed off-site. 3) Concrete for backfilling of footings shall be mixed on site to reduce waste and any excess concrete must be disposed properly off-site. 4) Any concrete washout must occur outside the 100' buffer zone. 5) All disturbed areas must be fine graded, loamed, and seeded to ensure permanent stabilization.

4. The work described in the Request is not within an Area subject to protection under the Act (including the Buffer Zone). Therefore, said work does not require the filing of a Notice of Intent, unless and until said work alters an Area subject to protection under the Act.

B. Determination (cont.)



Signatures:

1/31/20 Dale **D.** Appeals



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands WPA Form 2 – Determination of Applicability Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

The applicant, owner, any person aggrieved by this Determination, any owner of land abutting the land upon which the proposed work is to be done, or any ten residents of the city or town in which such land is located, are hereby notified of their right to request the appropriate Department of Environmental Protection Regional Office (see http://www.mass.gov/eea/agencies/massdep/about/contacts/) to issue a Superseding Determination of Applicability. The request must be made by certified mail or hand delivery to the Department, with the appropriate filing fee and Fee Transmittal Form (see Request for Departmental Action Fee Transmittal Form) as provided in 310 CMR 10.03(7) within ten business days from the date of issuance of this Determination. A copy of the request shall at the same time be sent by certified mail or hand delivery to the Conservation Commission and to the applicant if he/she is not the appellant. The request shall state clearly and concisely the objections to the Determination which is being appealed. To the extent that the Determination is based on a municipal ordinance or bylaw and not on the Massachusetts Wetlands Protection Act or regulations, the Department of Environmental Protection has no appellate jurisdiction.

	ureau of Resource Pr				DEP File	IAUUDA!
F	Request for Dep	artmental A	ction Fee		Provided	DED
\ 	ransmittal Forn	n			Provided	DY DEP
N	lassachusetts Wetland	ds Protection Act	M.G.L. c. 131,	§40	-	
A	. Request Informa	ation		· · · ·	•	•
	Leasting of Davis of			•		· · ·
1.	Location of Project					
	a. Street Address		b. City/Tow	n 7in	· · · · · · · · · · · · · · · · · · ·	
н. 1919 - П. С.	a. Oncer Address		D, ORYTOW	ա շփ		
•	c. Check number		d. Fee amo	unt		
t: ng 2.	Person or party making	request (if appropriat	e, name the citize	en group's rep	presentative):	
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uter,	Name	AN	······································	· · ·	·····	,·.
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o	City/Town			State		Zip Co
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•	Phone Number	· ·		Fax Number	(ii applicable)	
3.	Applicant (as shown on I					
	(Form 4B), Order of Con		storation Order of	Conditions (r	onn 5A), or i	Notice
Ν	Non-Significance (Form					
	Non-Significance (Form	- // ·				
	Non-Significance (Form	- //				
	Name	- //		•		· · · · · ·
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	Name			State		Zip Coo
	Name Mailing Address City/Town					Zip Coo
	Name Mailing Address City/Town Phone Number			State Fax Number	(if applicable)	Zip Cod
2	Name Mailing Address City/Town	- "			(if applicable)	Zip Co
4.	Name Mailing Address City/Town Phone Number	- "			(if applicable)	Zip Cod

- 1. When the Departmental action request is for (check one):
 - Superseding Order of Conditions Fee: \$120.00 (single family house projects) or \$245 (all other projects)
 - Superseding Determination of Applicability Fee: \$120
 - Superseding Order of Resource Area Delineation Fee: \$120

Send this form and check or money order, payable to the Commonwealth of Massachusetts, to:

Department of Environmental Protection Box 4062 Boston, MA 02211

200-20



Massachusetts Department of Environmental Protection Bureau of Resource Protection - Wetlands Request for Departmental Action Fee Transmittal Form

DEP File Number:

Provided by DEP

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

- **B. Instructions** (cont.)
- 2. On a separate sheet attached to this form, state clearly and concisely the objections to the Determination or Order which is being appealed. To the extent that the Determination or Order is based on a municipal bylaw, and not on the Massachusetts Wetlands Protection Act or regulations, the Department has no appellate jurisdiction.
- 3. Send a **copy** of this form and a **copy** of the check or money order with the Request for a Superseding Determination or Order by certified mail or hand delivery to the appropriate DEP Regional Office (see <u>http://www.mass.gov/eea/agencies/massdep/about/contacts/</u>).
- 4. A copy of the request shall at the same time be sent by certified mail or hand delivery to the Conservation Commission and to the applicant, if he/she is not the appellant.



RUTHANNE FULLER

MAYOR

City of Newton, Massachusetts Office of the Mayor

201-20 Telephone (617) 796-1100

Telefax (617) 796-1113

TDD (617) 796-1089

E-mail rfuller@newtonma.gov

March 9, 2020

2020 MAR - 9 PM 4:

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

Councilors:

I respectfully submit a docket item to your Honorable Council requesting authorization to transfer the sum of \$650,000 from June 30, 2019 Certified Free Cash to the Newton Public Schools for the purpose of reimbursing NPS for one-time costs associated with several projects that were necessary to accomplish the move of the Horace Mann Elementary School community to the former Carr School on Nevada Street.

Projects to be included in this reimbursement are as follows:

- ▶ new bus loop \$235k,
- ➤ technology upgrades \$120k,
- ▶ installation of two modular classrooms \$215k, and
- \triangleright installation of acoustical tiles where needed \$80k.

Thank you for your consideration of this matter.

Sincerely, Fulle thin.

Ruthanne Fuller Mayor

		Horace M	ann - Phase 1
Phase 1	1.		
Bus Loop	\$	71,249.54	
Construction	\$	163,586.24	
moving cost	\$	28,085.00	
Technology Costs	\$	122,236.98	
Total	\$	385,157.76	
	1.		
	<u> </u>	lorace Mann - (Construction Phase
	1.		
Construction Phrase 2		Amount PD	Notes
Mod 1 -Rental	\$	41,304.00	Contract Signed
delivery & Install	\$	31,937.00	Money transferred
return charges	\$	977.00	
Mod 2 - rental	\$	48,384.00	Contract Signed
delivery & Install	\$	33,437.00	Money transferred
return charges	\$	2,477.00	
	\$	158,516.00	Amount encumbered
	Ť	100,010,000	
Acoustical Tile Install	\$	20,783.17	Vanguard Invoice 8520
Acoustical Tile Install	\$	20,783.18	Vanguard Invoice 8522
Acoustical Tile Install	\$	24,492.00	Vanguard Invoice 8529
Acoustical Tile Install	\$	12,412.36	Vaniguard Invoice 8524
Acoustical Tile Install	\$	8,565.00	Vanguard Invoice 8534
		0,505.00	
			l
Acoustical Tile Install	\$	6,800.00	\$6,800.00 paid - see 11/21 Invoice
		0,800.00	
Mod Architect	\$	6,400.00	RDA - Invoice 20191218.2 - 12/18 Invoice
Furniture	Ş	6,522.51	paid from Cindy's accoun
Lockers	\$	1,531.98	School Speciality 20812448015
· · ·	<u> </u>		
IT for Mod Classrooms	\$	14,099.08	Reimburse IT / transfer bill
Electrical Work HM Mod	\$	95,500.00	Yes Invoice 174638
Horace Mann Modular Deck	\$	23,200.00	Vanguard invoice 8530
F	\$	19,316.00	Vanguard Construction Invoice 8546
Furniture Consultant	\$.	1,947.50	Todd Tsiang - PA2012
Misc costs	\$	6,287.32	
	\$	2,900.00	ADI - PO 20203092 - fire alarm supplies
	\$	5,450.00	HM - design for Homer / Vanguard Work
	\$	276,990.10	
Total Cost	\$	435,506.10	

	Total amount Pd
HM Phase 1	\$ 385,157.76
HM Phase 2	\$ 435,506.10
Total Paid to dat	\$ 820,663.86