Needham CATH Space Utilization Study

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PERMANENT PUBLIC BUILDING COMMITTEE

BUILDING DESIGN & CONSTRUCTION DEPARTMENT

DEPARTMENT OF HEALTH AND HUMAN SERVICES

CENTER AT THE HEIGHTS (CATH)

COUNCIL ON AGING

DPW - BUILDING MAINTENANCE DIVISION

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Introduction

This space utilization study by Bargmann Hendrie + Archetype, Inc. (BH+A) documents their observations and recommendations made to optimize the 20,000 sf Center at the Heights (the CATH) building. This study was authored for the Town of Needham's Department of Health & Human Services and the Permanent Public Building Committee (PPBC).

These observations and recommendations respond to information gathered from three sources:

- The 2020 planning study authored by the Center for Social and Demographic Research on Aging at UMASS Boston's McCormick School, referred to in this study as "the UMASS report,"
- The 2022 feasibility study looking at converting the "lay" kitchen to commercial kitchen authored by Socotec Architects, referred to in this study as "the Socotec report," and
- Multiple site visits, interviews, and meetings with the Aging Services Division Staff (CATH Staff), Council on Aging members, and CATH patrons.

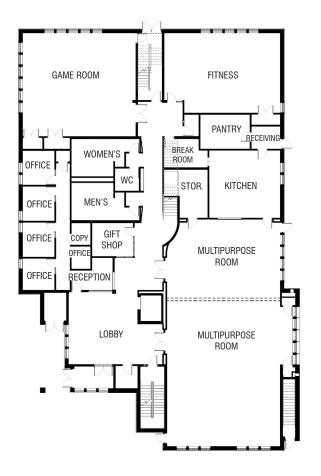
Copies of these reports and meeting minutes can be found in this study's appendix.

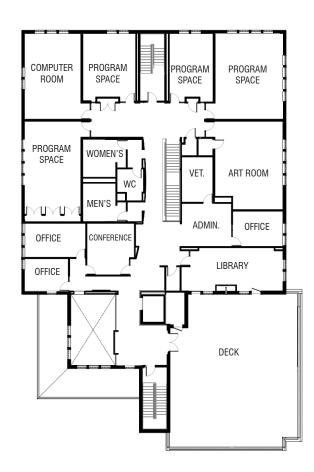


Figure 1.1: Multipurpose room filled with tables and chairs next to kitchen.

INTRODUCTION

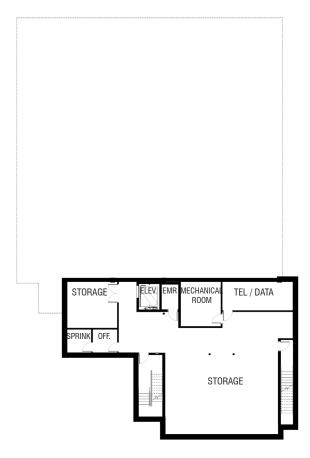
Needham CATH Building Overview





First Floor Second Floor

INTRODUCTION



Basement



SECTION 2 EXECUTIVE SUMMARY



Background

The Center at the Heights (CATH), the town of Needham's senior center, supports the health of senior citizens and their families via a variety of recreational, educational, and wellness programs by connecting patrons to social services in the community. The current CATH facility opened in 2014, having previously operated out of the basement of the Stephen Palmer Building.

This new CATH building reflects the town of Needham's commitment to its senior citizens. The center's original design responded to an increased need for services, programming, and the associated space required. With its opening in 2014, the CATH had more than threefold from approximately 6,000 to 20,000 sf.

The CATH was also designed to anticipate future needs, and this is the context within which this study is authored. While the 20,000 sf CATH facility has allowed for the expansion of programming and services, there are multiple challenges to optimizing this space so that the CATH can accommodate the present needs of its clientele.

Subsequent studies, including the UMASS and Socotec reports have returned to the issue of flexibility and ongoing improvement of the CATH facility.

BH+A vetted the recommendations from these reports and explored additional possible solutions recommended by the town's Department of Health and Human Services, Building Design and Construction Department, and Council on Aging. This vetting was done in consultation with CATH staff and patrons over a series of public meetings, focus groups, and interviews.

The intent is for this report to offer a "menu" of renovation alternates or options, and their associated costs. The town can then carry out any of these alternates as stand-alone projects or combine them into one large project. This report offers these renovation alternates in order of preference, to assist the town in prioritizing future work.



Figure 2.1: Patrons playing billiards in the game room.

Observations

The space utilization study builds on the research presented in the 2020 UMASS report. This report included a resident survey, two focus groups, and two site visits. This complete study is included in the appendix to this report.

Key findings are summarized below:

- 75% of survey respondents valued the CATH and the services it offered.
- By 2030, the senior population (60+) in Needham is projected to increase by 33% from 7,500 residents to 10,000 residents.

Specific to programming and the building itself, patrons shared the following barriers to accessing programming and services:

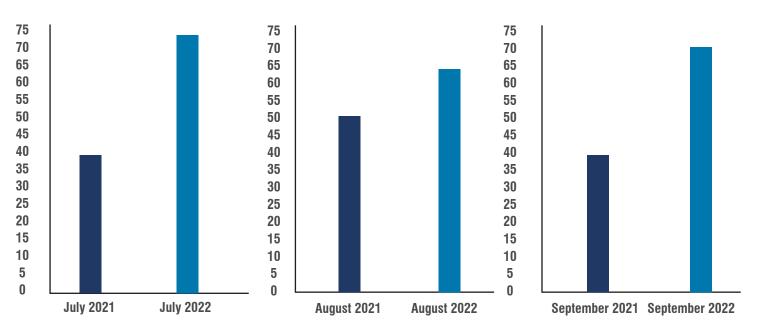
- Inconvenient parking.
- Inconvenient program schedules.
- Not enough space/offerings for physical fitness programming.
- Additional space for social services staff.
- Underused kitchen and roof deck.

Many of the UMASS report's conclusions remain valid and BH+A's own observations echo these findings. BH+A has organized these findings into two categories: challenges and barriers to programming at the CATH.

The following negatively impact the use of space at the CATH, putting pressure on limited programming space:

Increased Participation Post-COVID: The CATH is attractive to Needham's seniors, and is on track to recover post COVID. The UMASS study notes that pre-COVID, the center had 200 daily users on average and noted the senior population in Needham would continue to grow in years to come. Data collected in 2021 and 2022 show daily users increased from a low of 53 daily users to a peak of 205 daily users. Over this same time period, the number of general daily check-in patrons rose 50% from 27 to 42 patrons.

It should be noted that the accuracy of this data is limited by the configuration of the My Senior Center check-in system, which only records patrons who actively check-in at the front desk. Many patrons do not check-in or use the rear entrance to the multipurpose room which has no senior center check-in kiosk.



INCREASED GENERAL CHECK-IN PARTICIPATION POST-COVID

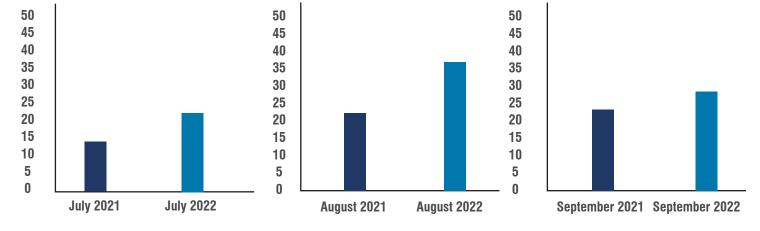
Figure 2.2: Daily participation numbers for 2021 and 2022.

NEEDHAM CATH SPACE UTILIZATION STUDY

- Popularity of Meals Programs: The center's meals program is one of its most popular. The meals program serves 150 patrons a day. This program is hybrid; breakfast and lunch are served at the CATH and patrons can also opt to have two meals delivered to their home. Prior to COVID, only homebound patrons were eligible for meal delivery. This requirement was suspended during COVID and the CATH is transitioning to the pre-COVID requirement.
- The meals program operates out of the smaller half of the center's multipurpose room. There is limited time between breakfast and lunch programs and limited time after the lunch program to use this space for other programming. In addition, it is difficult to set up and break down the large tables and chairs in this room, further restricting its use. As a result, the full-size multipurpose room is generally unavailable for other programming.
- Popularity of Physical Fitness Programs: The CATH's physical fitness classes are equally popular, including use of the fitness room's equipment. These types of programs are also space-intensive as patrons require considerable room to allow their free range of movement. For example, a yoga class with 10 students would be difficult to fit in any of the second floor program rooms. By contrast, at 3,000 sf, the full-size mutlipurpose room could accommodate 40 yoga students. The larger half of the multipurpose room can currently accommodate 25 yoga participants when the smaller half of the multipurpose room is used as a dining room.

 Limited Hours of Operation: The CATH currently operates Monday through Friday 8:30- 5:00 PM. There are no regular activities on the weekends of evenings. In addition, the shuttle does not operate after 2:00 PM.

As membership increases and in-person programming returns to pre-COVID levels, the scheduling of the most popular programs at the CATH will be increasingly challenging, specifically physical fintess activities that need a large space over 1,000 sf.



INCREASED FITNESS PARTICIPATION POST-COVID

Figure 2.3: Daily participation numbers for 2021 and 2022.

The following help create programming spaces at the CATH:

- Remote Learning: There are two program rooms at the CATH that are equipped for hybrid learning: the arts & crafts room and program room. These rooms are both 600 sf. Hybrid technology accommodates patrons' schedules and allows for social distancing and does not require the same amount of space as traditional in-person learning. However, this class format does not promote social activity which is particularly important for seniors who can be isolated in their homes and cutoff from the community.
- Remote Work: According to the UMASS report, 71% of Needham seniors age 60-62 and 43% of seniors age 65-74 work. Post-COVID, these seniors are likely to be working remotely, and have the flexibility to participate in daytime CATH activities they might not have been able to prior to the pandemic. In addition, remote work has dramatically changed the parking situation at the CATH. While the CATH parking lot is frequently full, the abutting MBTA parking lot is relatively empty. Parking scarcity was the number one complaint of survey respondents in the UMASS report. This problem seems to have a readily available solution.
- Increased Municipal Office Space: The town of Needham has continued to invest in its municipal properties, renovating and expanding community and office space for various municipal departments. Of note, the Rosemary Recreation Complex, constructed in 2018, provided additional programming and office space for the town, freeing up space, such as the Veterans' Department Office, at the CATH. In addition, the Rosemary Pool Complex's multipurpose room is large enough to be used for a wide range of programming from fitness classes to vaccine clinics. This space can also be used as overflow space for CATH programming.
- Neighboring Senior Centers: Senior centers are open to all, and Needham seniors are welcome to partake in activities at any neighboring community's senior center. The town of Newton is currently planning a large multigenerational center, the Newton Center for Active Living (NewCAL). When complete, this center may attract Needham residents. Demand on the CATH's amenities and program may diminish.

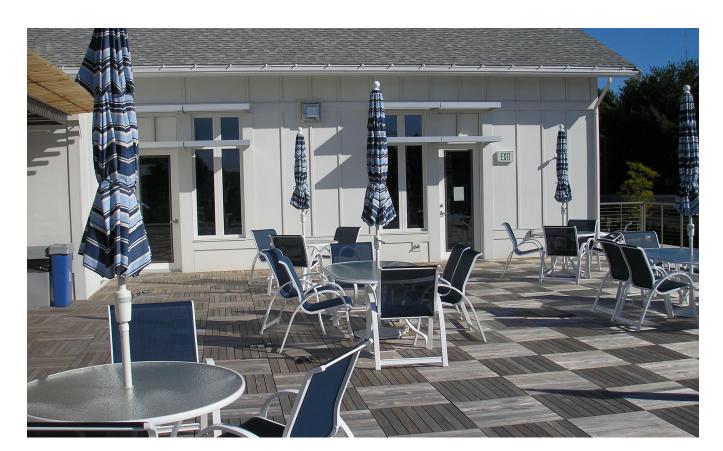


Figure 2.4: Tables and chairs on the roof deck.

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- Potential Use of Outdoor Space: Outdoor space, the
 center's front lawn, patio, and roof deck have great
 potential. The front lawn can be programmed with a bocce
 court or outdoor lounge seating. The roof deck can be
 used as overflow space for fitness activities or used for
 meal programs in lieu of the small multipurpose room. This
 outdoor space with natural ventilation is attractive to seniors
 to address concerns of COVID transmission.
- Potential Use of Informal Gathering Spaces: The CATH
 is designed with informal social spaces on the first and
 second floors: the lobby and the second floor waiting area
 outside of the roof deck. These spaces can also serve as
 alternative spaces for meals.

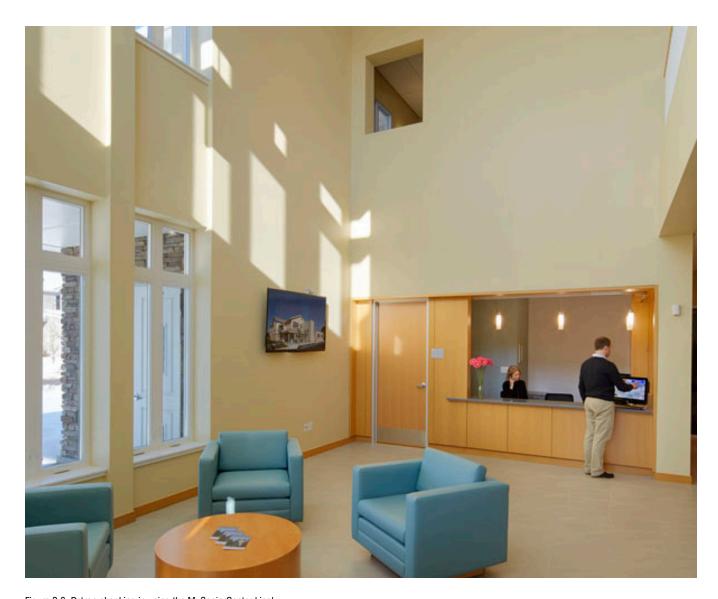


Figure 2.5: The upstairs reading area outside of the roofdeck doors is underused. It could be fitted out with a coffee bar and used for meals.

Recommendations

The CATH's physical layout compliments the center's administrative policies. Though not the focus of this study, cultivating supportive policies will aid in the best use of the center's spaces. BH+A proposes the following for consideration:

- Increase the CATH's Hours of Operation: Expanding the hours of operation for programming and transportation will reduce pressures on available rooms, specifically the multipurpose room and the fitness room.
- Incentivize In-Person Programming: To encourage patrons to return from remote to in-person programming, consider offering incentives such as discounts and free food.
- Create Social and Food-Friendly Spaces: The CATH's
 current food policy, which allows food and drink in all
 spaces, should be promoted. Mobile "grab n' go" carts can
 be set up in the lobby and the space outside of the roof deck
 to encourage to activate these spaces and lessen the burden
 on the small multipurpose room.
- Install Second My Senior Center Kiosk: Setting up a My Senior Center kiosk will help the CATH get more accurate headcounts. It should be noted that even though using a second kiosk can capture who is visiting the CATH, patrons cannot use it to sign in for specific programming.



 $\label{prop:continuous} \mbox{Figure 2.6: Patron checking in using the MySeniorCenter kiosk.}$

NEEDHAM CATH SPACE UTILIZATION STUDY

Alternates

In addition to these administrative solutions, BH+A proposes the following space renovations and reconfigurations. These recommendations are proposed as stand-alone alternates and projects, which the town can carry out as funds become available. The alternates were reduced from a much larger pool of ideas after vetting by the town, Council on Aging, and CATH patrons. These recommendations are listed in order of preference and discussed in more depth under the Alternates section of this report:

- Commercial Kitchen Conversion: Convert the existing "lay" kitchen to a commercial kitchen for large-scale meal production.
- Fitness Room Expansion: Provide additional strength-training equipment by moving the fitness room to the current game room and move the game room to the former fitness room space.
- Vestibule Addition & Accessible Parking: Provide a second rear entrance, legitimizing the small multipurpose room's egress door which is an unofficial entrance to the building. Equip this entrance with a My Senior Center kiosk. Provide accessible parking closer to both the existing main entrance on Hillside Avenue and the new rear entrance.
- Basement Renovation: Provide additional flexible and overflow program space by finishing out the CATH's basement. Provide an accessible restroom at this level.
- Roof Deck Renovation: Provide new furniture, privacy screens and a shade structure to make this space more inviting. Equip this space with a mobile food cart to activate the space.
- Café Lounge Reconfiguration: As part of the commercial kitchen renovation, convert the existing fitness room into a café-lounge space. Café lounge spaces are becoming increasingly popular in senior centers and can help take pressure off of the small multipurpose room.
- Office Reconfiguration: In order to provide a more private
 office space for the social service staff, convert the current
 computer lab into an open office for the programming staff,
 and use the current private offices on the first floor for social
 services.



Figure 2.7: Volunteers working inside the kitchen.



Figure 2.8: Gym equipment inside the fitness center.



Figure 2.9: Parking lot.



Figure 2.10: Basement space.



Figure 2.11: Roof deck.



Figure 2.12: Computer lab space.



Figure 2.13: Cafe/Lounge at Falmouth Senior Center.

Community Engagement & Surveys

BH+A engaged CATH patrons and staff through presentations, focus groups, interviews, and questionnaires. Presentations and focus groups included (* indicates minutes from these presentations are included in the appendix to this study):

- Programming Staff Focus Group October 6, 2022: This
 was a small in-person focus group with the programming
 staff at the CATH. Five staff members participated.
- Social Services Staff Focus Group October 6, 2022: This
 was a small in-person focus group with the social services
 staff at the CATH. Five staff members participated.
- Transportation and Maintenance Staff Focus Group October 6, 2022: This was a small in-person focus group with the transportation staff at the CATH. Two staff members participated.
- Fitness Staff Interview October 13, 2022*: BH+A interviewed Stephen Cadigan, fitness instructor.
- Council on Aging (CoA) Presentation, October 13, 2022 *: BH+A gave a preliminary design presentation to the CoA and open to the public. The meeting was hybrid.

- Coffee Group Presentation 1, October 18, 2022: BH+A gave an in-person preliminary design presentation to CATH patrons and distributed questionnaires.
- Coffee Group Presentation 2, November 21, 2022: BH+A gave an in-person preliminary design presentation to CATH patrons and distributed questionnaires.
- Pool Users Focus Group, November 21, 2022: BH+A met with CATH patrons who used the game room's pool tables frequently. Three patrons participated.
- Permanent Public Buildings Committee (PPBC)
 Presentation 1 October 25, 2022*: BH+A presented preliminary findings and recommendations via ZOOM to the PPBC. This meeting was open to the public.
- Permanent Public Buildings Committee (PPBC)
 Presentation 2 February 27, 2023: BH+A presented follow-up findings and recommendations via ZOOM to the PPBC. This meeting was open to the public.

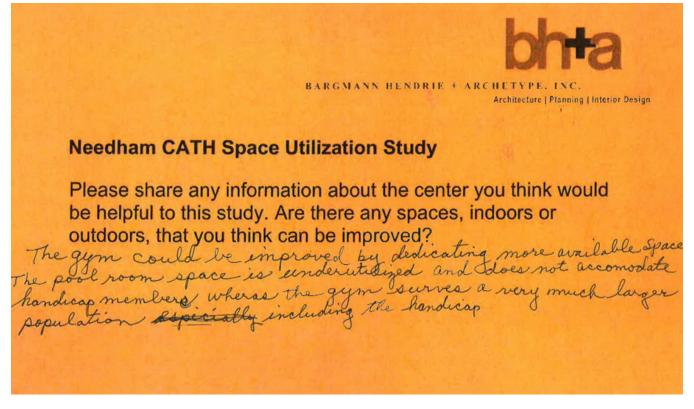


Figure 2.14: CATH Patron Questionnaire Response.

NEEDHAM CATH SPACE UTILIZATION STUDY

BH+A issued an open-ended questionnaire intended to solicit feedback on presentations and received 23 responses.

BH+A also referenced data collected from two earlier community surveys authored by UMASS Boston and the CATH. The UMASS community survey was conducted in Spring 2020 and received nearly 700 responses. The CATH conducted a "Getting Back to the CATH" follow-up survey in Winter 2021 and received almost 200 responses.

Some key findings from all three of these outreach efforts with citations:

- Parking and class times were inconvenient: CATH
 patrons could not participate in programs because of either
 inconvenient parking (33%) or inconvenient class times
 (15%) (UMASS survey).
- Fitness programs are popular and fitness classes and space should be expanded. CATH patrons primarily came to the center for its fitness programs (51%) and asked that additional fitness program be offered (17%) (CATH survey) and that the fitness room be expanded (43%) (BH+A questionnaire).
- CATH hours should be expanded. CATH patrons asked to have the center's hours expanded to evenings and weekends.
- CATH spaces should be more inviting. CATH patrons asked for a more inviting space, such as "relaxing lounges" (UMASS survey).

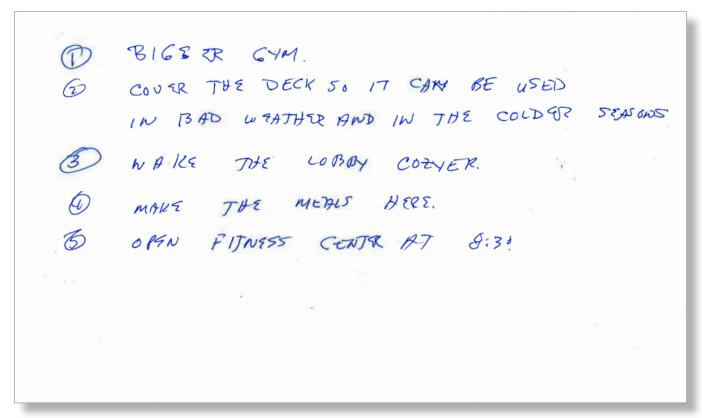


Figure 2.15: CATH Patron Questionnaire Response.





Alternates

After reviewing the recommendations in the UMASS study, and meeting with CATH staff, patrons, and the Council on Aging, BH+A presented a series of proposed renovation options in the Fall of 2022.

Based on feedback on these proposals, BH+A reduced these renovation options to twelve preferred options. PM&C estimated the costs of these preferred options as stand-alone projects. After reviewing these costs, the town's Department of Health and Human Services and Building Design and Construction Department reduced the options to the seven alternates below. These seven alternates were presented to the Public Building Commission in February 2023. These alternates are listed in order of preference.



Figure 3.1: Alternate Colored Plan Diagram.

Alternate 3.1: Commercial Kitchen Conversion

The CATH currently partners with Beth Israel Deaconess Hospital to provide in-home meals. This program is run out of the hospital's commercial kitchen but it is anticipated this space will not be available in the near future. Therefore, an alternate commercial kitchen space needs to be located to continue this important program for seniors.

The existing kitchen is designed as a lay kitchen, designed for use by volunteers and used for light cooking and teaching. It was not designed as a commercial kitchen, capable of large-scale production. Needham's Public Health Division engaged Socotec Architects to study the requirements and costs associated with converting the lay kitchen to a commercial kitchen. BH+A assisted by providing a peer review and helping with value engineering.

Alternate 3.2: Fitness Room Expansion

As noted in the UMASS study, physical fitness activities are extremely popular at the CATH and the existing Fitness Room is well-used. The space is undersized, and does not allow for several desired pieces of strength training fitness equipment. BH+A looked at gaining more space by either borrowing space from the adjacent kitchen, or relocating the fitness room to another location in the building, such as the existing game room or the basement. The alternate presented in this report looks at swapping the location of the fitness room and the game room.

Alternate 3.3A and 3.3B: Vestibule Addition and Accessible Parking

Presently, the front entrance is inconvenient due to its proximity to accessible parking. There is limited accessible parking, and it is located at the rear of the site. This parking is closer to the egress door to the small multipurpose room. Given the popularity of meals programs, this entrance is heavily used. However, because this door is intended as egress only, it is not equipped with an accessible push button or a My Senior Center kiosk. In addition, frequent use of this door allows unconditioned air to escape, making the small multipurpose room drafty in the winter months.

Alternate 3.3A looks at providing a vestibule at the rear of the CATH that can act as an airlock and house a My Senior Center kiosk.

Alternate 3.3B proposes providing additional accessible parking spaces near both the front and rear entrances.

Alternate 3.4: Basement Renovation

As mentioned earlier in this report, the CATH building was designed to accommodate future growth by providing a large basement that can be converted from its current use as shared municipal storage into program space. The ceiling heights in this space are low, though satisfy code minimums. This alternate looks at the costs associated with finishing the basement and providing a bathroom at this level.

Alternate 3.5: Roof Deck Renovation

The roof deck is underused but offers great potential to be used as both an overflow space for physical activities and a space for meals and informal gathering. BH+A first explored fully or partially enclosing the deck but did not pursue these options further as the associated costs were excessive. The renovation of this space will consist of providing additional furnishings that will help break up the large 2,000 sf space into zones: spaces for large and small groups. This will make this space feel more inviting and allow for it to be used for a variety of activities. Privacy screens will help shield views of the MBTA parking lot and limit train noise and also serve as planting beds for gardeners. A simple shade sail will limit harsh sun in the warmer seasons.

Alternate 3.6: Café/Lounge Reconfiguration

Café lounges are increasingly popular at area senior centers; they provide a large informal gathering area that is used as a lobby, for meals and unprogrammed social activities. A café lounge would free up the smaller half of the multipurpose room which is currently used primarily as a dining room. The café lounge would be fit out with a combination of soft seating and café tables. It would also include a pass-through window to the kitchen so patrons could easily eat meals there.

Alternate 3.7: Office Reconfiguration

Reconfiguring the office space is intended to address the needs of the social services staff and provide additional rooms for private consultations with patrons and their families. There are several available offices on the first floor in the current administration wing that is used by programming and transportation staff. These staff members do not need the private offices the social service staff require. This study proposes converting the existing computer lab to a shared open office for the programming staff. It would be fit out with new workstations, and take advantage of the existing tel-data and power infrastructure. Moving the programming staff to the former computer lab would then make two to three private offices on the first floor available for the social service staff to use. Converting the computer lab to office space would minimally impact current technology programs as laptops could be used in other program rooms in lieu of dedicated lab space.



3.1 **COMMERCIAL KITCHEN CONVERSION**



ALTERNATES ALTERNATE 3.1



Figure 3.2: Existing kitchen with volunteers. Photo by Socotec AE Consulting.



Figure 3.3: Volunteers working in the kitchen.

Overview

Though not identified in the UMASS study, renovating the existing "lay" kitchen was also identified as a priority. Socotec AE Consulting and ColburnGuyette food service designers were the lead consultants on this endeavor. BH+A peer-reviewed their work and provided value engineering assistance in consultation with Needham School's Nutritional Services director, Danielle Collins, and Crabtree McGrath foodservice designers.

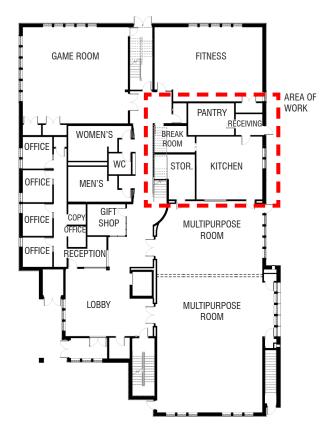
The CATH kitchen as originally designed is a "lay" kitchen, designed for light cooking and as a teaching kitchen.

The kitchen was fit out with a combination of residential-grade appliances and materials that untrained volunteers can operate easily, and specific commercial-grade equipment critical for a large lay kitchen to operate. For example, an undercounter dishwasher is used instead of a commercial dishwashing station. Existing commercial equipment includes a commercial hood and ANSUL system, two large commercial freezers provide bulk storage, and grease trap.

There is currently no head nutritionist or chef that oversees kitchen operations.

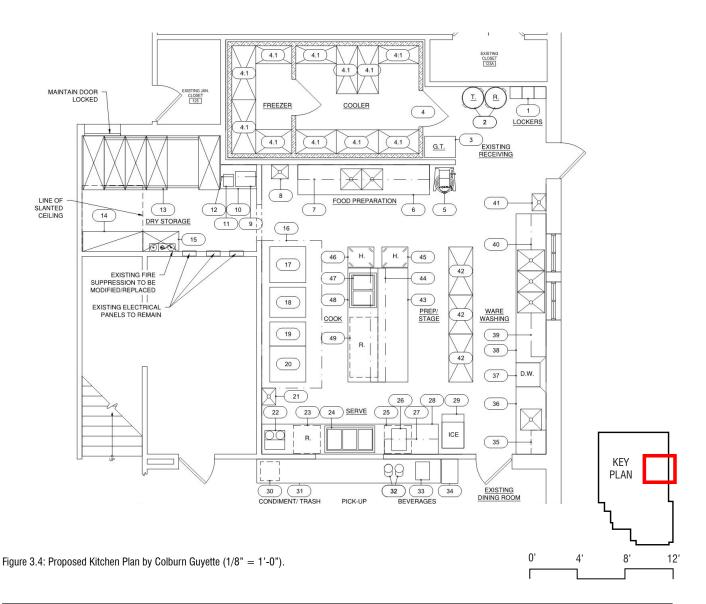
The existing kitchen is primarily used to support light meal programs in the adjacent multipurpose room. This space can also be used for cooking classes and can be rented out to community members.

The existing kitchen is not a commercial kitchen designed for bulk meal production. Currently, the home meal delivery program uses the Beth Israel Deaconess Hospital's commercial kitchen to prepare food. It is uncertain how long the hospital will continue to provide this service. Therefore, it may be be necessary to upgrade the CATH's kitchen to a commercial kitchen.



Key Plan (First Floor)

ALTERNATES ALTERNATE 3.1



EQUIPMENT LIST					
ITEM NO.	DESCRIPTION				
1 2 3 4 3.1 5 6 7 8 9 10 11 12 13 14 15	LOCKERS TRASH/RECYCLE GREASE TRAP (BY PLUMBER) WALK-IN COOLER/FREEZER WALK-IN SHELVING 30 QT. MIXER PREP TABLE W/ SINKS WALL SHELF HAND SHELF MICROWAVE OVEN (EMPLOYEE BREAK USE) WORK TABLE COFFEE BREWER (EMPLOYEE BREAK USE) WALL SHELF HIGH-DENSITY DRY STORAGE SHELVING DUNNAGE RACK DRY STORAGE SHELVING EXHAUST HOOD	17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33	COMBI OVEN (CONVECTION & STEAM) (ELECTRIC) BRAISING PAN/TILT SKILLET (ELECTRIC) 24" GRIDDLE (ELECTRIC) 6-BURNER RANGE (ELECTRIC) HAND SINK COFFEE BREWER UNDERCOUNTER REFRIGERATOR THREE-WELL HOT/COLD QUICKSWITCH FOOD WELL UNDERCOUNTER TOASTER OVEN CONVEYOR TOASTER OVEN WALL SHELF SERVING COUNTER ICE MACHINE W/ BIN TRASH BIN PICK-UP COUNTER (NEW) COFFEE DISPENSERS JUICE DISPENSERS	34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49	WATER/ICE DISPENSER GLASS RACK SHELF SOILED DISHTABLE VENTLESS DISHWASHER, DOOR-TYPE CLEAN DISHTABLE W/ POT SINKS WALL SHELF WALL SHELF HAND SINK CLEAN POT/PAN STORAGE SHELVING WORK TABLE OVERSHELF/POT/UTENSIL RACK HEATED CABINET, MOBILE HEATED CABINET, MOBILE TWO-WELL HOT FOOD WELL WORK TABLE UNDERCOUNTER REFRIGERATOR

Figure 3.5: Table of the equipment list as noted in Colburn Guyette's proposed kitchen plan.

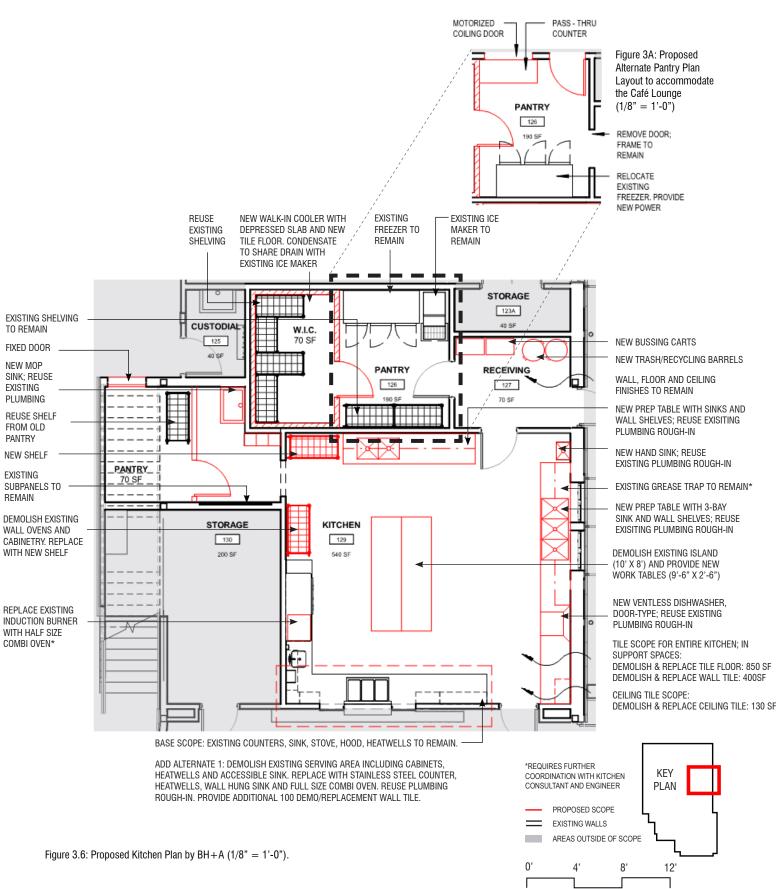
SOCOTEC AND COLBURN GUYETTE COMMERCIAL KITCHEN RENOVATION PLAN

Socotec and ColburnGuyette recommended completely renovating the kitchen to convert it from a lay kitchen to a commercial kitchen. The new kitchen would allow for bulk meal production with larger commercial grade appliances and bulk food storage. Larger pots, pans and trays could be washed and stored in a commercial-grade sinks and dishwashing station. Residential finishes like laminate cabinets would be replaced with easy-to-clean stainless steel.

Key features of their proposed design included:

- · Replacing all floor and ceiling finishes.
- Replacing all residential grade cabinets and counters to commercial grade stainless steel.
- · Converting the existing pantry to a walk-in cooler/freezer.
- Converting the staff breakroom to a pantry.
- Replacing all residential-grade appliances with commercialgrade appliances.
- Relocating plumbing infrastructure in support of the above.
- Increasing the capacity of the commercial hood in support of the above.

ALTERNATES ALTERNATE 3.1



BH+A COMMERCIAL KITCHEN RENOVATION PLAN

BH+A reviewed the kitchen renovation design Socotec and ColburnGuyette proposed. In order to reduce costs, but still have a functional commercial kitchen, BH+A proposed a design that reused:

- Existing infrastructure to the greatest extent possible,
- · Any existing commercial equipment already in place, and
- Commercial-appropriate finishes where appropriate.

Significant cost savings were realized by reusing the existing commercial hood and rooftop fan, grease trap, icemaker, commercial freezers, heatwells, and sneezeguard.

In addition, all new plumbing reused existing rough-in locations. For example, a new three bay sink that can accommodate large pots and pans is shown to be installed where a smaller sink was located.

Any new equipment that would require new plumbing infrastructure was eliminated from the design. This allowed the existing grease trap to remain, and also reduced infrastructure costs.

Lastly, any existing finishes that were easy to clean and therefore appropriate for a commercial kitchen were retained. The existing washable ceiling tile was retained. The existing serving line area was priced as an alternate. While this area uses laminate cabinets, this is a material that can be considered commercial-grade as it is easy to wipe down. Ultimately, the Needham Public Health Division has discretion to approve all kitchen finishes. The CATH may choose to have a more detailed discussion concerning finishes with the Needham Public Health Division.



3.2 FITNESS ROOM EXPANSION



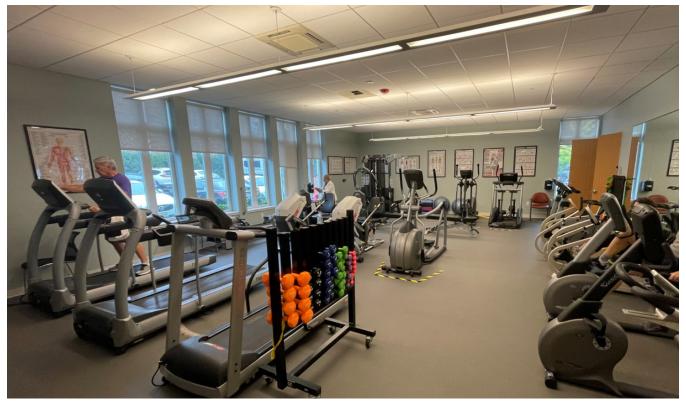


Figure 3.7: Users exercising in the fitness center.

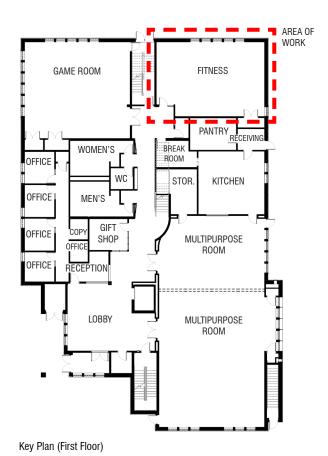


Figure 3.8: Gym equipment inside the fitness center.

FITNESS ROOM EXPANSION ALTERNATES

The CATH is unique in that it offers a large 1,000 sf fitness room with cardio and strength training equipment. This amenity is well-used. On multiple site visits, 10-12 patrons were using this space. The space is well-maintained and offers a variety of equipment. The storage closet was difficult to access and was underused. Coats were stored in addition to fitness equipment. The UMASS report noted that the accessible clear floor areas were not provided at some equipment, which indicates that there is not enough space for the number of pieces of equipment in the room. In addition, when interviewed, the CATH's athletic director expressed interest in purchasing several new pieces of strength training equipment as well as adding an additional stretching cot.

BH+A studied various approaches to providing additional space for fitness equipment including: expanding the fitness room into the adjacent pantry and loading area of the kitchen, relocating the fitness room to the basement, and swapping the location of the fitness room and the 1,300 sf game room. The third option was the most well-received by patrons and town officials. The basement space was seen as less desirable because of its low-ceilings and lack of windows, while the proposed commercial kitchen would require the pantry and loading spaces.



NEEDHAM CATH SPACE UTILIZATION STUDY

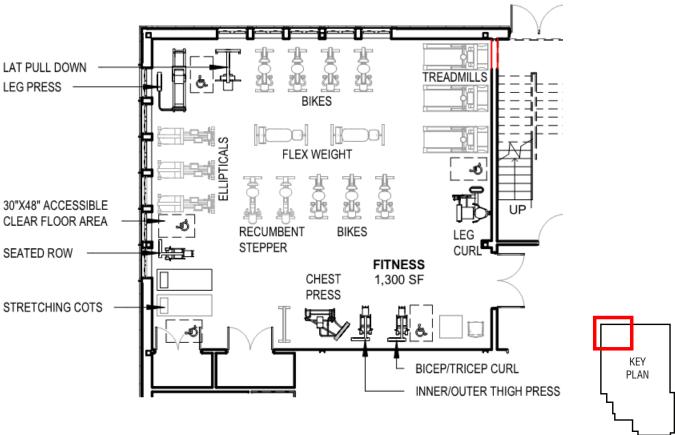
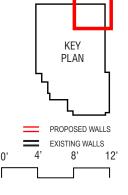


Figure 3.9: Proposed Fitness Room Plan (3/32" = 1'-0").



Figure 3.10: Proposed Game Room Plan (3/32" = 1'-0").



FITNESS ROOM EXPANSION ALTERNATES

The preferred option, repurposing the game room, accommodates all of the existing and new fitness equipment and stretching cots, including the associated accessible clear floor areas. One drawback of this option is the location of the closets in the new fitness room. The existing closets, located at the far side of the room, would still be difficult to access and inconvenient for storing coats and personal belongings.

Moving the fitness room to the game room would require replacing the game room floor and providing additional dedicated power receptacles for the motorized fitness equipment. The proposed plan shows removing the second means of egress as it is not required by code. In addition to the costs associated with these upgrades, the CATH would also purchase strength-training equipment and an additional stretching cot.

In the proposed design, the former fitness room is repurposed as the game room. Though this space is 300 sf smaller, it still can comfortably accommodate two pool tables and spectator seating. Note that the two pool tables are required for pool tournaments. The collapsible ping pong table and desktop computers currently in the game room would need to be relocated. Patrons did not prefer a conversion top pool table that would allow a pool table to also be used as a ping pong table. The ping pong table could be relocated to the roof deck.

BH+A studied alternative new locations for the game room elsewhere in the building. There are no other program rooms large enough to accommodate two pool tables. Two smaller program rooms would have to be combined and this is cost prohibitive.

Renovations to this space would be largely cosmetic. New flooring and pendant lighting over the pool tables would be installed. The new game room would require a second means of egress, similar to the egress door in the existing pool room that connects directly to the stair. Alternate 3.3A and 3.3B Vestibule Addition and Accessible Parking also discusses additional egress options for this room.

FITNESS EQUIPMENT	QUANTITY (EXISTING)	QUANTITY (ALTERNATE)
TREADMILLS	3	3
BIKES	7	7
RECUMBENT STEPPER	2	2
FLEX WEIGHT	2	2
ELLIPTICALS	3	3
MULTI-GYM	1	0
SEATED ROW	0	1
BICEP/TRICEP CURL	0	1
INNER/OUTER THIGH PRESS	0	1
LEG CURL	0	1
LAT PULL DOWN	0	1
LEG PRESS	0	1
CHEST PRESS	0	1
STRETCHING COTS	0	2
TOTAL EQUIPMENT	18	26

Figure 3.11: Table of Existing and New Equipment.





ALTERNATES ALTERNATE 3.3A AND 3.3B



Figure 3.12: Rear entrance to small multipurpose room and adjacent accessible parking.

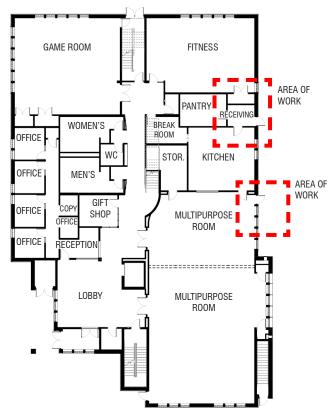


 $\label{eq:figure 3.13:multipurpose room; a potential location for an additional vestibule. \\$

The CATH was designed with 65 onsite parking spaces as well as an additional 12 offsite parking for staff located on Mark Lee Road. For special events, the town executed a memorandum of understanding with the Avery Crossing facility to provide 20 parking spaces and a shuttle. The adjacent MBTA commuter rail parking lot has 85 parking spaces. There are an additional 10 unrestricted use parking spaces on Hillside Avenue. Of the 65, there are 3 accessible parking spaces for the CATH's use. The CATH also provides a shuttle which transports patrons to and from the center and operates between the hours of 8:00 AM and 2:00 PM Monday through Friday.

The UMASS report noted that limited parking was a barrier to participating in CATH activities. In addition, the accessible parking spaces are located at the rear of the property, approximately 100' from the main entrance on Hillside Avenue. As a result, the multipurpose room's egress door is used as an unofficial entrance.

BH+A studied these two related issues, parking scarcity, and the need for a secondary entrance. BH+A engaged a traffic and parking consult, Pare Corporation, to evaluate parking needs and the impact of the secondary entrance on parking and circulation in the parking lot. BH+A and Pare made two site visits on Tuesday, September 20th and Thursday, September 29th at 11:00 AM. These dates and times are considered to represent peak activity at the center.



Key Plan (First Floor)

ALTERNATES ALTERNATE 3.3A AND 3.3B

These are the key findings from these site visits:

 The dedicated CATH parking lot was more heavily used than the MBTA parking lot. The MBTA lot had 60 available parking spaces while the CATH parking lot had no available parking spaces.

- 7 parking spaces at the CATH were coned off for the generator, or were taken up by a wooden ramp in lieu of a curb cut.
- 95 patrons were observed in the building on September 20th at 11:00 am. Of these, 24 patrons were using the small multipurpose room.
- Patrons were observed entering and exiting the building using the small multipurpose room's egress door.
- The small multipurpose room was drafty, as the egress door was in almost constant use.

A new emergency generator will require 3 parking spaces.

Parking is limited at the CATH and a solution should address both current and future needs, anticipating future growth. PARE made the following recommendations:

- Encourage use of the offsite staff parking.
- Add additional shuttle service.
- Lease additional parking spaces from the MBTA parking lot.
- Consider reserved spaces for older patrons or veterans.
 These spaces are more efficient as they do not include a striped transfer area.
- Provide 2-4 additional fully accessible parking spaces.

BH+A studied three locations for a new secondary entrance and additional accessible parking:

- Converting the small multipurpose room egress door to ingress and restriping parking spaces in this general area,
- Providing a new entrance at the rear associated with a proposed Café Lounge and restriping parking spaces in its vicinity, and
- Restriping MBTA parking spaces in close vicinity to the front entrance on Hillside Avenue.

The preferred accessible parking and vestibule solution creates a rear entrance and vestibule at the small multipurpose room, and adds two accessible parking spaces close to both the front and rear entrances.

VESTIBULE ADDITION AND ACCESSIBLE PARKING

ALTERNATES

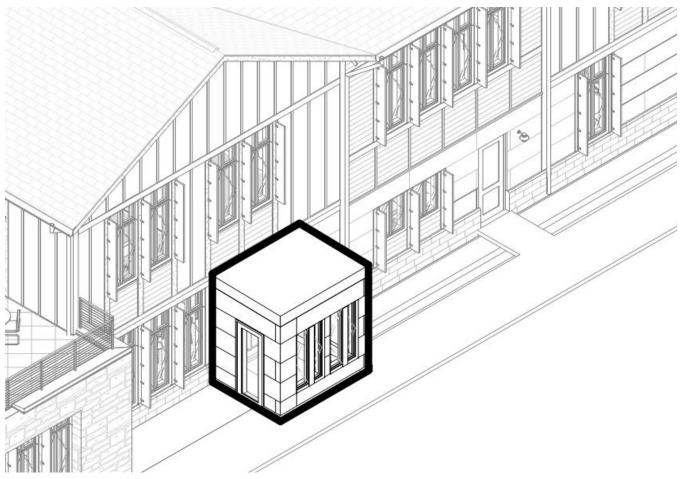


Figure 3.14: Axonometric view of the entry vestibule addition.

ALTERNATES ALTERNATE 3.3A AND 3.3B

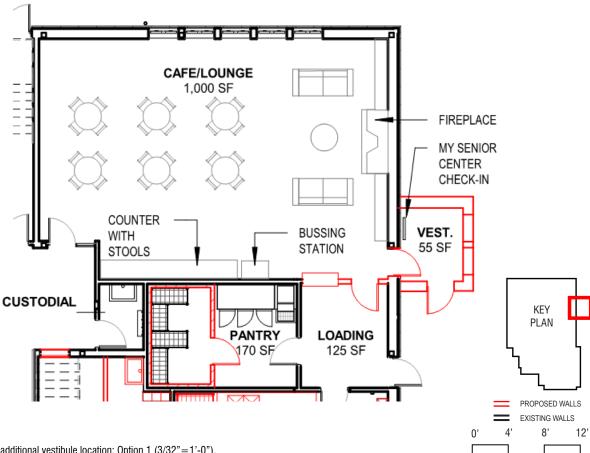


Figure 3.15: Proposed additional vestibule location: Option 1 (3/32"=1'-0").

OPTION 1

BH+A looked at several options for locating a second entrance at rear of the CATH.

Each conceptual design includes a vestibule. The vestibule allows for access control, provides an area for a patron to wait for a ride, and includes a My Senior Center check-in kiosk. A vestibule also functions as an airlock, limiting the amount of unconditioned air entering the building. Patrons noted that the small multipurpose room is drafty because patrons frequently use the egress door there.

The multipurpose room's egress door gets use because patrons can conveniently access one of the center's most popular programs: breakfast and lunch.

The first vestibule option looks at relocating the meals program to a new café lounge space converted from the former fitness room. A new vestibule addition would be built outside of the café lounge space. The multipurpose room door would return to solely be used for egress.

This option could be carried out independently of the kitchen renovation. It would, however, need to be carried out as part of the fitness room expansion work.

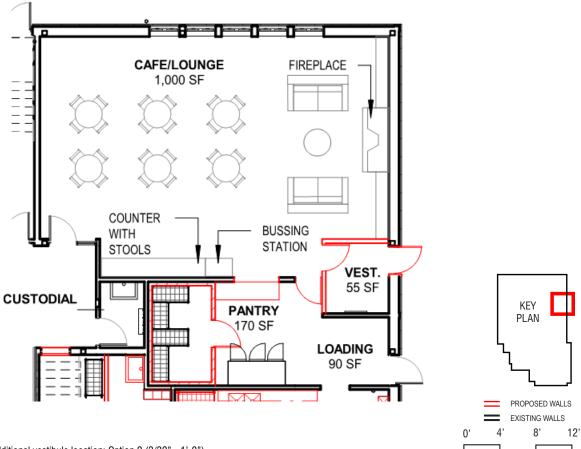


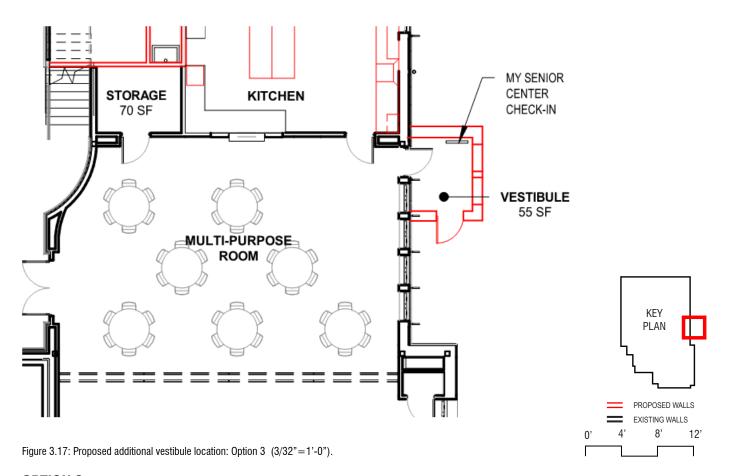
Figure 3.16: Proposed additional vestibule location: Option 2 (3/32"=1'-0").

OPTION 2

The second vestibule option also is associated with a new café lounge. With this design, the vestibule is not an addition to the existing building. Instead, the vestibule is converted out of the former fitness room's closet. This option is less expensive as it requires no exterior walls, foundations or roofing.

This option would need to be carried out as part of the commercial kitchen renovation.

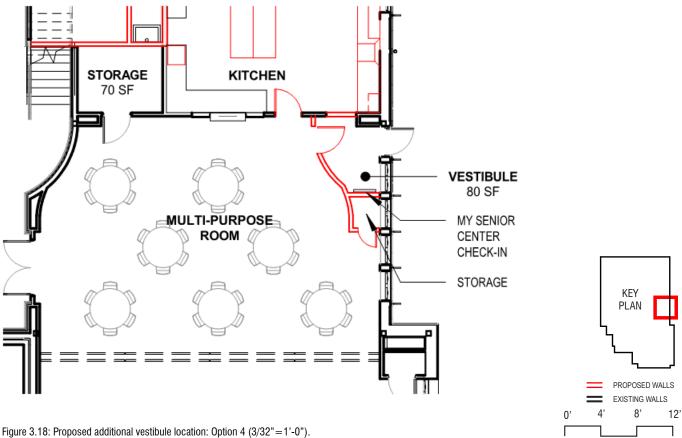
ALTERNATES ALTERNATE 3.3A AND 3.3B



OPTION 3

The third vestibule option proposes an addition immediately outside of the small multipurpose room. Similar to the first option, this vestibule would have access control, a seating area, and a My Senior Center check-in kiosk.

This option could be carried out independent of the commercial kitchen renovation.



OPTION 4

The fourth and final vestibule option proposes an interior vestibule just inside of the small multipurpose room. This vestibule design, while less expensive, results in less useable space in the small multipurpose room and also impacts the design of the commercial kitchen; the door between the kitchen and multipurpose room would need to be relocated and the serving counter and heat wells would need to be rebuilt. This work would need to be carried out at the same time the commercial kitchen is renovated.

ALTERNATES ALTERNATE 3.3A AND 3.3B



NEEDHAM CATH SPACE UTILIZATION STUDY

VESTIBULE ADDITION AND ACCESSIBLE PARKING

ALTERNATES

The accompanying site plan shows the proposed parking improvements at the CATH.

The MBTA commuter parking lot is located to the south (Figure 3.19) of the CATH at the corner of Hillside Avenue and West Street. It was originally designed with 85 parking spaces. Thirteen spaces would be leased to the CATH for the use of staff and patrons. Three of these existing spaces would be converted to two accessible parking spaces with a shared striped aisle.

The CATH parking lot is located to the north and west of the CATH. It was originally designed with 65 parking spaces. Three parking spaces would be used to locate an emergency generator. One parking space is occupied by a temporary ramp. The proposed design would convert three existing parking spaces to two accessible parking spaces with a shared striped aisle.



3.4 BASEMENT RENOVATION





Figure 3.20: Basment space.



 $\label{eq:Figure 3.21: Storage usage in the basement.}$

BASEMENT RENOVATION ALTERNATES

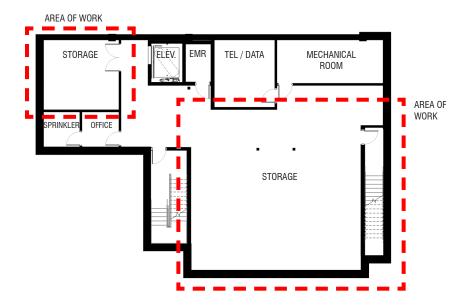
The basement was designed as fit-out space, to be converted into a formal program room as the CATH expanded services.

The CATH basement is approximately 3,500 gsf and houses the maintenance office, dedicated custodial storage, general use storage, the elevator machine room, main electrical room, mechanical, and sprinkler rooms. The elevator and two stairs service this level. There is approximately 1,900 sf of space that is available for fit-out. For comparison, this is equal to the size of two of the existing fitness rooms combined. This room could accommodate approximately 40 occupants.

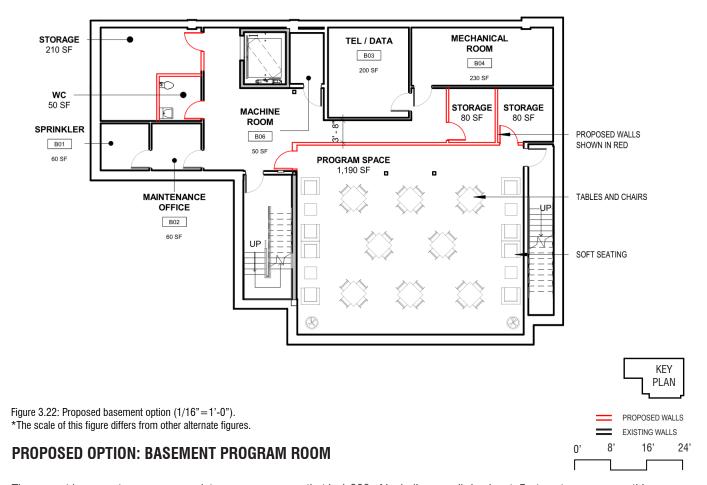
However, this space, while large, has a low ceiling and no windows. Patrons and CATH staff were not generally receptive to moving programs into the basement; both relocating the fitness room and the pool room were discussed.

In focus groups, several CATH patrons expressed to desire for more movie programming. This basement space would be the perfect venue for movie watching programs.

Converting this space into a useable program room would require finding a new home for the wide array of items various town departments store in the basement. BH+A also recommends building an accessible bathroom at this level. Additional improvements would include providing adequate heating, cooling and ventilation, new walls to partition the space, and finishes.



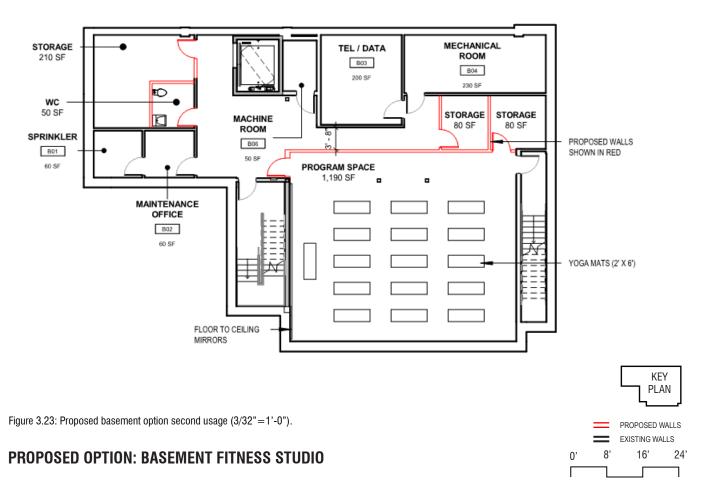
Key Plan (Basement)



The current basement can accommodate a program room that is 1,200 sf including a walk-in closet. Forty patrons can use this space when set-up with tables and chairs and soft seating.

In addition to fitting out the basement program room, the existing maintenance storage room can be converted into an accessible bathroom. Existing plumbing infrastructure in this area make this a relatively affordable renovation.

BASEMENT RENOVATION ALTERNATES



If the room was used for a physical activity like yoga, sixteen patrons could use this space.

Finishes can help transform this space from a generic "rec room" to a purpose-built exercise studio. Large mirrors installed along the back wall and an economical sports floor can be used for a range of activities from tap dance to tai chi.



3.5 ROOF DECK RENOVATION





Figure 3.24: The roof deck overlooks the MBTA parking lot and across the train tracks.

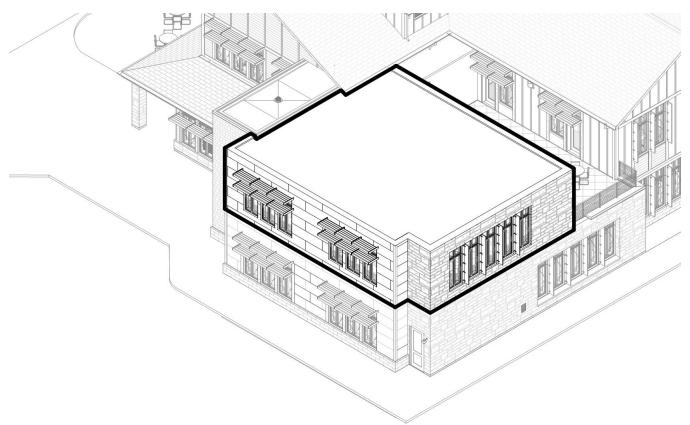


Figure 3.25: Axonometric view showing a roof fitness center option. This option was not preferred.

ROOF DECK RENOVATION ALTERNATES

The 2,000 sf roof deck provides a large and flexible space for a variety of activities and has great potential.

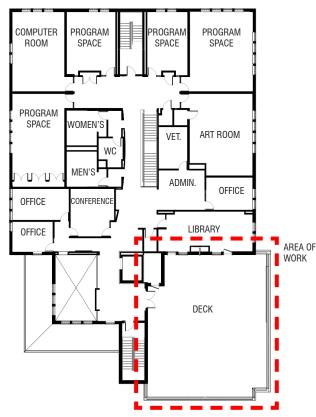
This space's size is both an asset and a barrier to its use. Though spacious, the roof deck is sparsely furnished and as a result feels uninviting and without purpose. Currently, there are several patio tables and raised planters spread out across the deck.

The roof deck's location to the southeast corner of the building also proves challenging. This area is exposed to both harsh summer sun, wind in the cooler seasons, and train noise throughout the year. The roof deck offers views of the parking lot and commuter rail line and affords little privacy. There is a small trellis at the southwest corner of the site, but its coverage is limited.

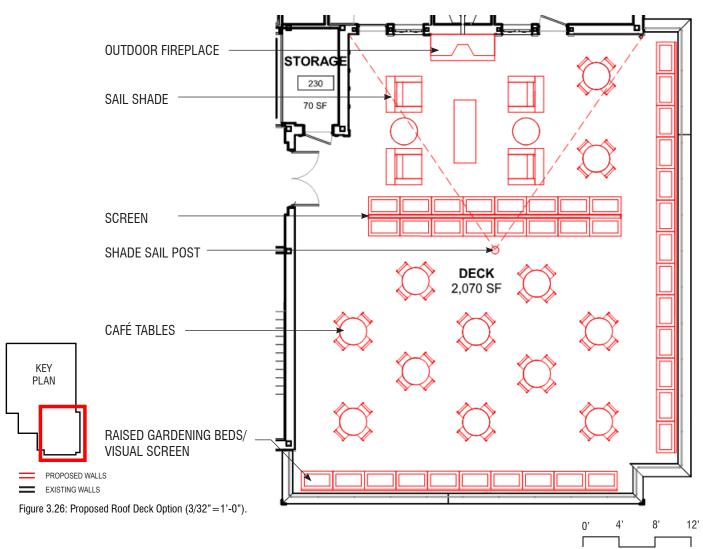
BH+A looked at two approaches to better utilizing the roof deck:

- Build an addition, capturing some of the roof deck area to create additional program space, and
- Leave the roof deck as an outdoor space, updating furnishings to create a more functional and inviting space.

Building an addition on top of the roof deck was not preferred because it was expensive and would eliminate one of the only outdoor spaces at the CATH. The building's structure was not designed to anticipate a future addition on top of the multipurpose room and an addition would require significant structural upgrades. Egress requirements would limit the addition to 1,200 sf and preserve 700 sf of the roof deck.



Key Plan (Second Floor)



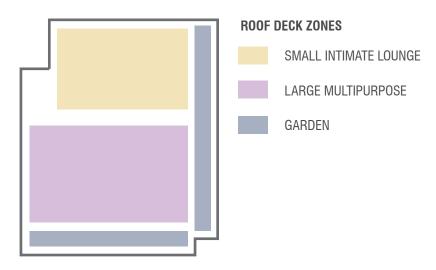


Figure 3.27: Roof Deck Zone Diagram.

ROOF DECK RENOVATION ALTERNATES

PROPOSED OPTION

BH+A proposed using new furnishings to subdivide the roof deck into three unique zones: a small intimate lounge zone to the north, a larger multi-purpose zone to the south, and a garden zone along the perimeter.

In the lounge zone, soft lounge seating would be clustered around an outdoor fire place. Is intended for this furniture to remain in place. A shade sail helps define this zone and helps block the harsh summer sun. The other half of the roof deck would be a multi-use zone, furnished with small tables and chairs. During warmer seasons, patrons could take meals on the roof deck. Smaller tables and chairs could be easily moved aside so the space could be used for outdoor fitness classes.

A planting bed and trellis placed between the two zones subdivides the deck and help create privacy between the two zones. Additional planting beds with trellises along the perimeter seperates the deck from the parking and train below.



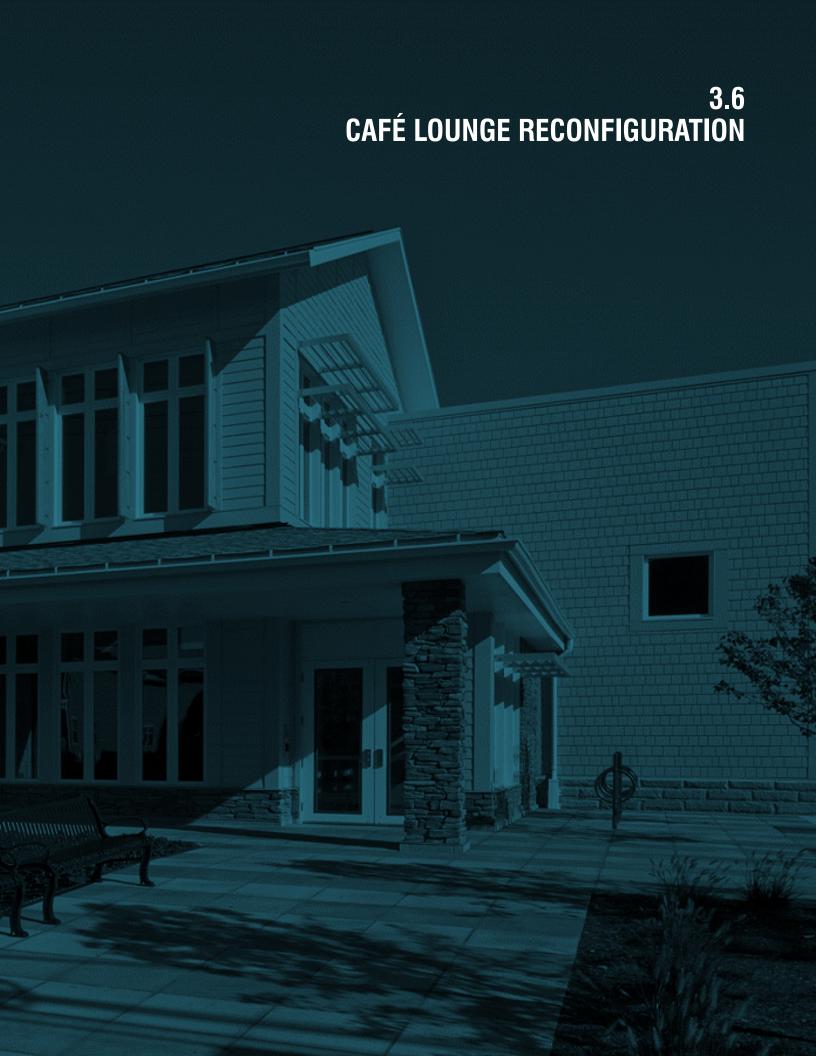




Figure 3.28: Patrons gathered around eating and chatting with each other in the smaller multipurpose room.



Figure 3.29: Café Lounge space at Scituate Senior Center.

CAFÉ LOUNGE RECONFIGURATION ALTERNATES

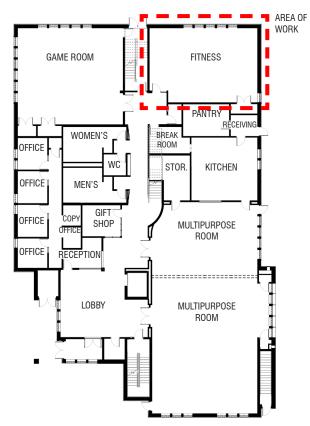
BH+A observed that the small multipurpose room is the hub of the center. Patrons were observed socializing and eating here throughout the day.

Though well-used, the small multipurpose room also feels institutional and cold, and its dedicated use as a dining room restricts the use of the full multipurpose room. The CATH currently has a need for a large space to accommodate popular in-person gross motor programs.

The UMASS report recommended solving this problem by providing dedicated fitness space and/or hiring additional staff to set up and break down the multipurpose room. Another perhaps more viable option is to better use the existing multipurpose room by creating a dedicated dining space.

Currently, only half of the multipurpose room can be used. Providing an alternate space to eat meals would allow the full multipurpose room to be used for classes like yoga that require significant space.

Senior centers are increasingly moving away from using the multipurpose room as a formal dining space and instead incorporating a café lounge, a large "living room" space furnished with a combination of lounge chairs and café tables. These spaces are adjacent or in close proximity to the kitchen so meals can easily be served. CATH patrons are already familiar with the concept of an informal space for passive recreation and meals. When the multipurpose room floors were replaced, meal programs were temporarily moved to the game room.



Key Plan (First Floor)

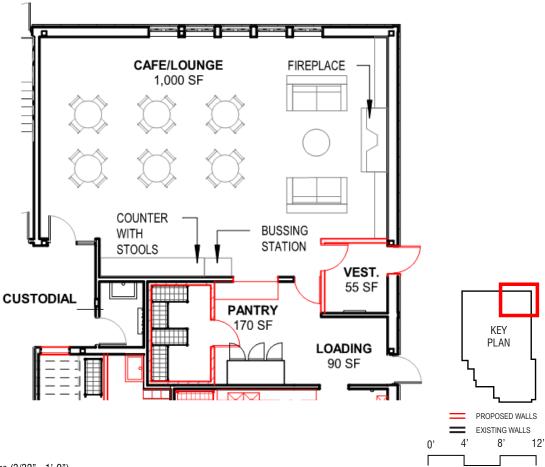


Figure 3.30: Proposed Café Lounge (3/32"=1'-0").

PROPOSED CAFÉ LOUNGE

The proposed café-lounge would occupy the former fitness room when it moves to the former game room. Patrons could socialize at couches oriented around a fire place and tv or sit at café tables or a café counter. A new pass thru counter would connect this space to the kitchen. Grab n' go items could be served throughout the day as well as the hot meals prepared in the kitchen.

A café lounge renovation would need to be carried out at the same time as the fitness room expansion and the commercial kitchen renovation.

The café lounge renovation is one of the least preferred alternates because it would require finding adequate space for the game room. Currently, there are no existing program spaces large enough to accommodate two pool tables. Two second-floor program rooms would need to be combined to create a new game room or the game room would need to move to the basement.

CAFÉ LOUNGE RECONFIGURATION ALTERNATES



Figure 3.31: Café Lounge at Falmouth Senior Center offers a variety of seating options.



Figure 3.32: Grab and Go Counter at Falmouth Senior Center.



3.7 **OFFICE RECONFIGURATION**



ALTERNATES ALTERNATE 3.7

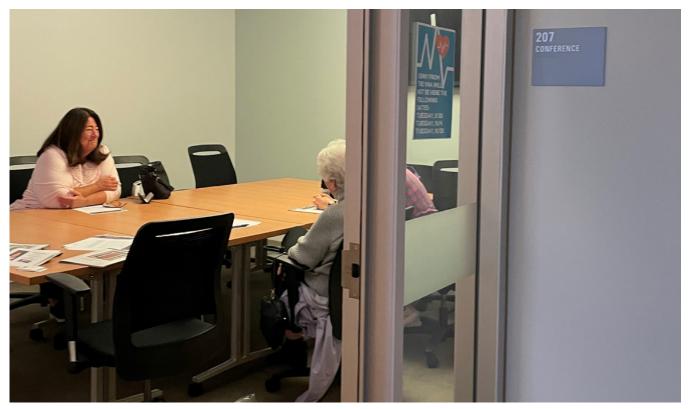


Figure 3.33: Conference Room.



 $\label{eq:Figure 3.34:Patrons using the computer room.}$

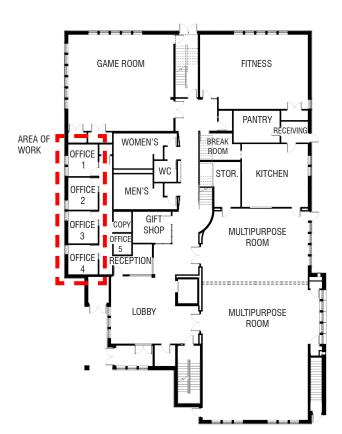
OFFICE RECONFIGURATION ALTERNATES

Overview

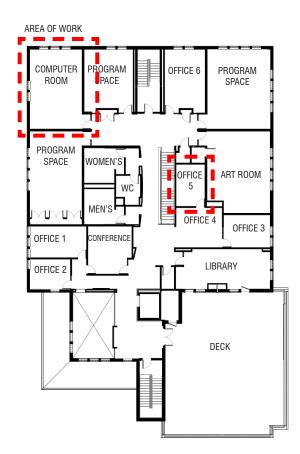
Currently, the CATH has eighteen full time and four part time staff. There are also an estimated five volunteers that work at the reception desk and in the kitchen. There are five offices on the first floor and six offices on the second floor. Currently one of the smaller program rooms is used as an office. Private office space used for confidential conversations with patrons is especially needed. In addition, BH+A studied:

- Providing a lactation room.
- Relocating the staff breakroom displaced by the commercial kitchen conversion.
- Providing additional office space by renovating the existing social work offices and conference room on the second floor to create six smaller private social work offices.

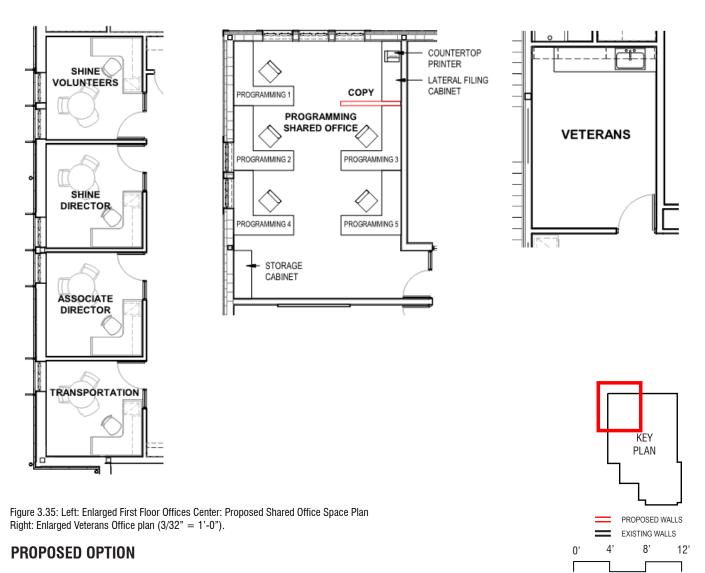
Alternatively, it would be less costly to free up already existing private offices in the building for the CATH's social workers.



Key Plans (Left: First Floor Right: Second Floor)



ALTERNATES ALTERNATE 3.7



BH+A proposes converting the existing computer lab to a shared open office for the programming staff. The computer lab is currently underused but equipped with the necessary tel-data equipment so as to be easily converted into open office space. It would be fit out with new workstations, and take advantage of the existing tel-data and power infrastructure.

Social workers could use the former program staff offices. These offices are designed to accommodate one employee but are large enough that two employees could share one office. Additional data and power receptacles would need to be installed.





OBSERVATIONS & RECOMMENDATIONS

Cost Estimation

BH+A engaged PM&C to provide cost estimates for twelve original alternates. PM&C treated each alternate as a stand-alone project. If the town elected to pursue one or more alternates together, additional economies of scale may be realized. It would be logical to take on some of the alternates under one contractor. For example, building a café lounge must be done with the expansion of the fitness room and the renovation of the kitchen.

Each estimate includes both "hard" costs and "soft" costs. Hard costs are defined as the costs associated specifically with the construction of each alternate: the labor, materials, including furniture, fixtures and equipment, and contractor's overhead. The soft costs include architectural and design fees, temporary space and moving costs, testing and inspections.

In addition, the estimates including the following assumptions:

- All contingencies, burdens and markups are included in each alternate.
- Building will be open and operational during construction.
- Scope of work will be bid and built by General Contractor.

The table below shows the total costs for each alternate. The itemized cost estimates, which breakdown each project by building components, are provided in the appendix. In the case of the accessible parking renovation, the town would assume the relatively minimal costs of restriping parking spaces and providing new signage.

These estimates do not include operational costs. The commercial kitchen, in particular, will require additional costs for supplies and staff.

Cost Summary

Scope		Estimate	
			Cost
Alternate 1: Convert Residential Kitchen to Commercial Kitchen	1,000 GSF	920,714	920,000
Alternate 2: Swap Locations of Fitness Room & Game Room	2,300 GSF	263,435	263,000
Alternate 3A: Vestibule Addition	170 GSF	297,878	297,800
Alternate 3B: Accessible Parking	NA		NA
Alternate 4: Renovate the Basement for Program Room	1,500 GSF	743,886	743,000
Alternate 5: Furnish Roof Deck	NA	177,739	177,700
Alternate 6: Café Lounge	3,600 GSF	578,475	578,000
Alternate 7: Office Configuration	600 GSF	19,837	19,000

Figure 4.1: Cost Estimate Summary Table.







APPENDIX

APPENDIX A.1 ARCHITECTURAL STUDIES: FITNESS ROOM OPTIONS

NEEDHAM CENTER AT THE HEIGHTS

300 Hillside Avenue, Needham Heights, MA 02494

#1



1) Fitness Gym Original Equipment Layout

TYPE OF EQUIPMENT	QUANTITY
TREADMILLS	3
BIKES	7
RECUMBENT STEPPER	2
"FLEX WEIGHT"	2
ELLIPTICALS	3
LAT PULLS/ROW MULTI-GYM	1
ROOM AREA	1000 SF



#2

2 Same Room Gym Equipment Layout and Fitness Billiards Layou

TYPE OF EQUIPMENT	QUANTITY	NET GAIN
TREADMILLS	4	+1
BIKES	9	+2
RECUMBENT STEPPER	2	0
"FLEX WEIGHT"	4	+2
ELLIPTICALS	4	+1
LAT PULLS/ROW MULTI-GYM	1	0
ROOM AREA		1300 SF



3 Basement Gym Equipment Layout

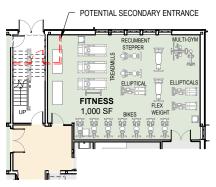
TYPE OF EQUIPMENT	QUANTITY	NET GAIN
TREADMILLS	4	+1
BIKES	8	+1
RECUMBENT STEPPER	3	+1
"FLEX WEIGHT"	5	+3
ELLIPTICALS	8	+5
LAT PULLS/ROW MULTI-GYM	2	+2
ROOM AREA		1400 SF

Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street Boston, MA 02210 Tel: (617) 350-0450 September 2022

NEEDHAM CENTER AT THE HEIGHTS

300 Hillside Avenue, Needham Heights, MA 02494

Fitness Room



PARTIAL FIRST FLOOR PLAN

TYPE OF EQUIPMENT	QUANTITY
TREADMILLS	3
BIKES	7
RECUMBENT STEPPER	2
"FLEX WEIGHT"	2
ELLIPTICALS	3
LAT PULLS/ROW MULTI-GYM	1
ROOM AREA	1,000 SF

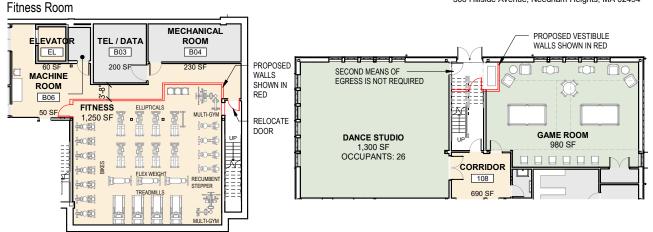
Current Fitness Room Configuration

0' 8' 16' 32'

Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street Boston, MA 02210 Tel: (617) 350-0450 September 2022 C:Users\ssabaten\Documents\Needham Senior Center-SP_012012_2021_SSabaten.rvt

NEEDHAM CENTER AT THE HEIGHTS

300 Hillside Avenue, Needham Heights, MA 02494



PARTIAL BASEMENT PLAN

PARTIAL FIRST FLOOR PLAN

TYPE OF EQUIPMENT	QUANTITY	NET GAIN FROM EXISTING CONFIGURATION
TREADMILLS	4	+1
BIKES	7	0
RECUMBENT STEPPER	4	+2
"FLEX WEIGHT"	3	+1
ELLIPTICALS	8	+5
LAT PULLS/ROW MULTI-GYM	2	+1
ROOM AREA	1,250 SF	+250 SF

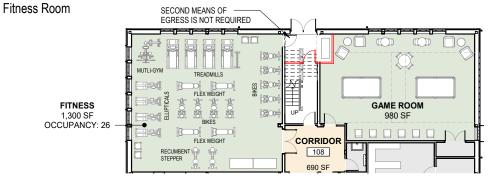
Option 1 - Relocate Fitness Room to Basement

8' 16' 32'

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NEEDHAM CENTER AT THE HEIGHTS

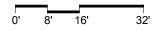
300 Hillside Avenue, Needham Heights, MA 02494



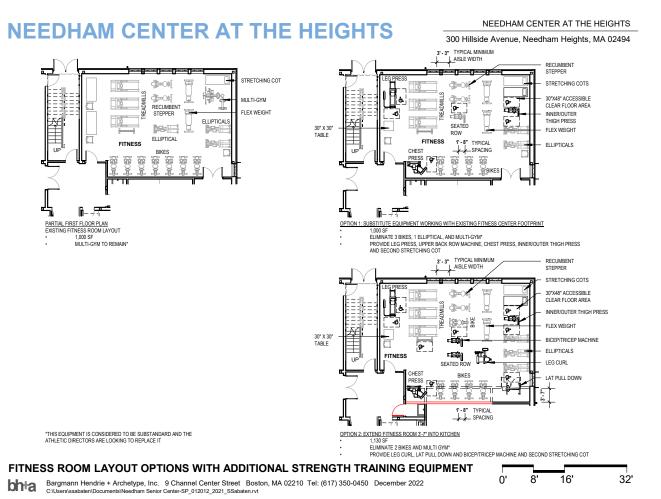
PARTIAL FIRST FLOOR PLAN

TYPE OF EQUIPMENT	QUANTITY	NET GAIN FROM EXISTING CONFIGURATION
TREADMILLS	4	+1
BIKES	9	+2
RECUMBENT STEPPER	2	0
"FLEX WEIGHT"	4	+2
ELLIPTICALS	4	+1
LAT PULLS/ROW MULTI-GYM	1	0
ROOM AREA	1,300 SF	+300 SF

Option 2 - Switch Fitness Room and Game Room Layout

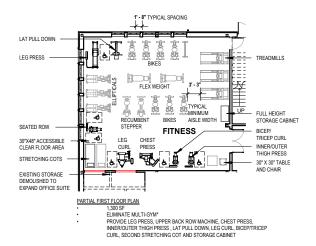


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NEEDHAM CENTER AT THE HEIGHTS

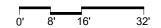
300 Hillside Avenue, Needham Heights, MA 02494



*THIS EQUIPMENT IS CONSIDERED TO BE SUBSTANDARD, AND THE ATHLETIC DIRECTORS ARE LOOKING TO REPLACE IT

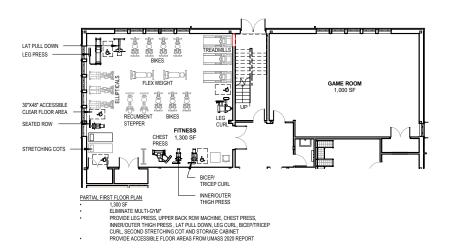
Game Room Fitness Layout with Additional Strength Training Equipment

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NEEDHAM CENTER AT THE HEIGHTS

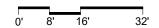
300 Hillside Avenue, Needham Heights, MA 02494



*THIS EQUIPMENT IS CONSIDERED TO BE SUBSTANDARD, AND THE ATHLETIC DIRECTORS ARE LOOKING TO REPLACE IT

Game Room Fitness Layout with Additional Strength Training Equipment

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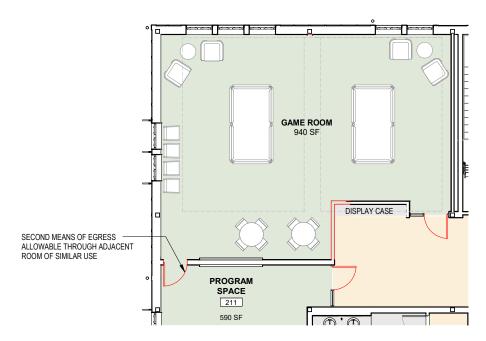




APPENDIX A.2 ARCHITECTURAL STUDIES: GAME ROOM OPTIONS

NEEDHAM CENTER AT THE HEIGHTS

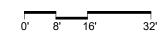
300 Hillside Avenue, Needham Heights, MA 02494

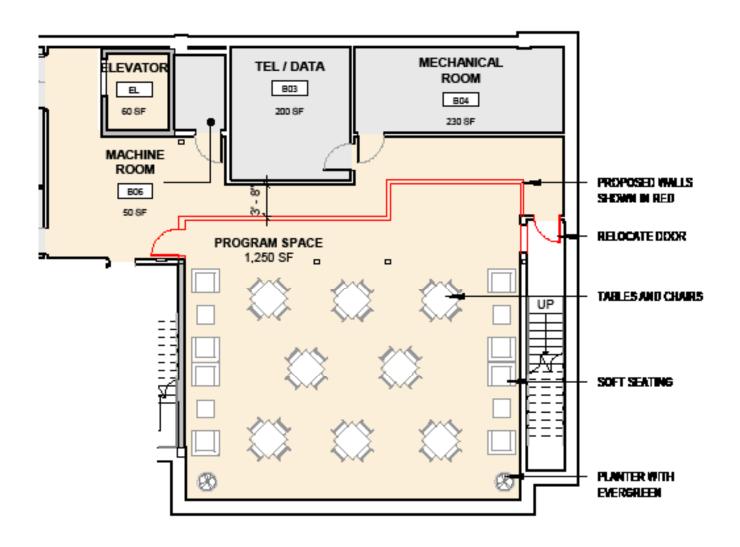


PARTIAL SECOND FLOOR PLAN

Combining Two Program Rooms for Game Room

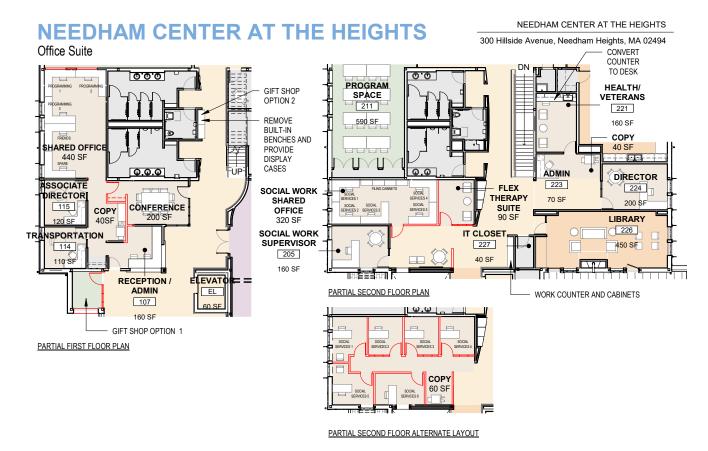
Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street Boston, MA 02210 Tel: (617) 350-0450 November 2022 C:Users\ssabaten\Documents\Needham Senior Center-SP_012012_2021_SSabaten.rvt







APPENDIX A.3 ARCHITECTURAL STUDIES: OFFICE SUITE OPTIONS



Office Suite Reconfiguration - 1st Floor and Second Floor

16' 32' 8'

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NEEDHAM CENTER AT THE HEIGHTS

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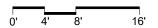
COUNTERTOP PRINTER LATERAL FILING COPY PROGRAMMING 1 CABINET PROGRAMMING SHARED OFFICE PROGRAMMING 2 PROGRAMMING 3 PROGRAMMING 4 PROGRAMMING 5

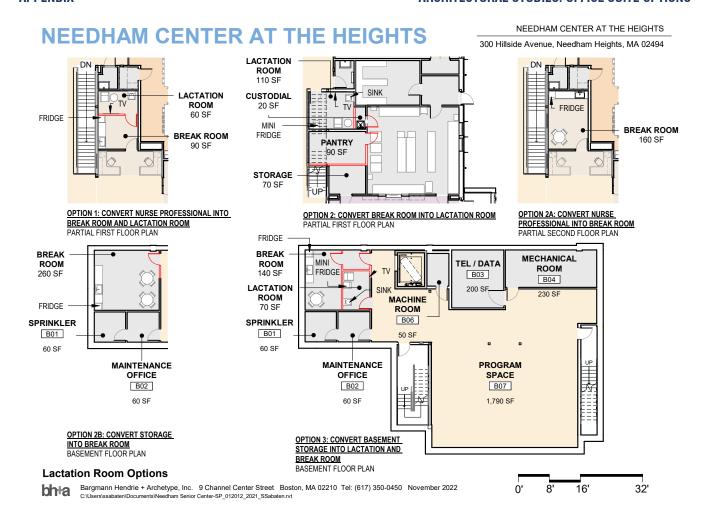
PARTIAL SECOND FLOOR PLAN

STORAGE CABINET

Programming Shared Office Space

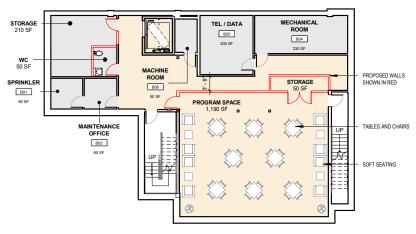
Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street Boston, MA 02210 Tel: (617) 350-0450 January 2023 C:Users\seabaten\Documents\Needham Senior Center-SP_012012_2021_SSabaten.rvt



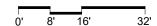


NEEDHAM CENTER AT THE HEIGHTS

300 Hillside Avenue, Needham Heights, MA 02494



PARTIAL BASEMENT PLAN



Basement Reconfiguration

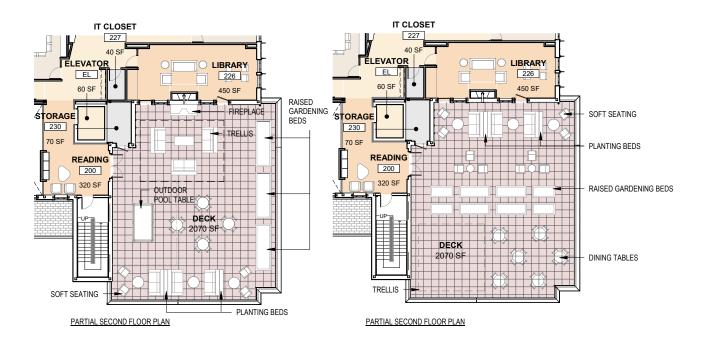
Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street Boston, MA 02210 Tel: (617) 350-0450 February 2023 C:Users\sabaten\Documents\Needham Senior Center-SP_012012_2021_SSabaten.rvt



APPENDIX A.4 ARCHITECTURAL STUDIES: ROOF DECK OPTIONS

NEEDHAM CENTER AT THE HEIGHTS

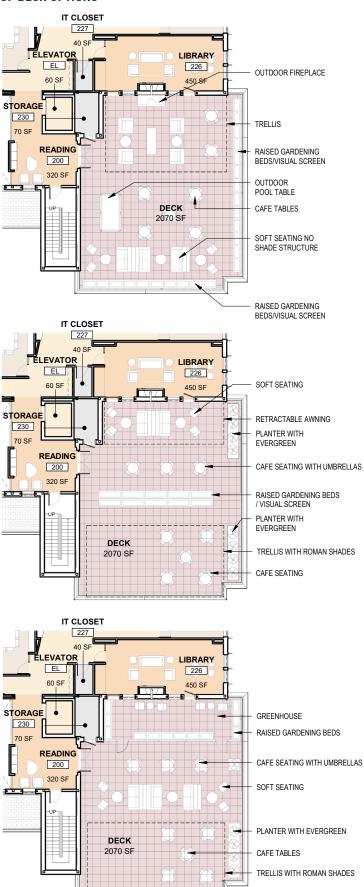
300 Hillside Avenue, Needham Heights, MA 02494



Deck Options

0' 8' 16' 32'

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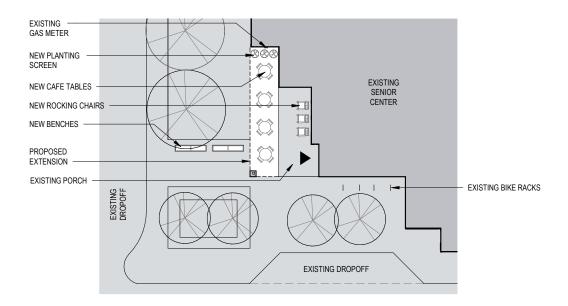




APPENDIX A.5 ARCHITECTURAL STUDIES: FRONT LAWN OPTIONS

NEEDHAM CENTER AT THE HEIGHTS

300 Hillside Avenue, Needham Heights, MA 02494

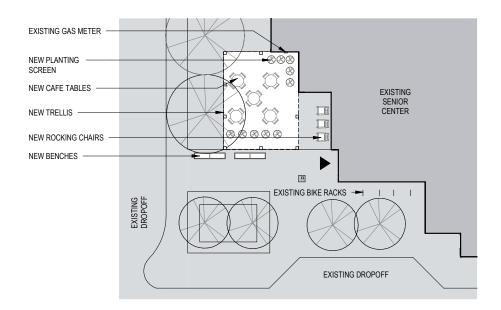


Option 1 - Extend Existing Porch Area

bhia Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street Boston, MA 02210 Tel: (617) 350-0450 October 2022 C:Users\mbarker\Documents\Needham Senior Center-SP_012012_2021_mbarkerZU82P.rvt

NEEDHAM CENTER AT THE HEIGHTS

300 Hillside Avenue, Needham Heights, MA 02494

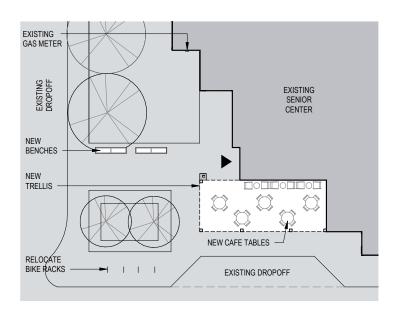


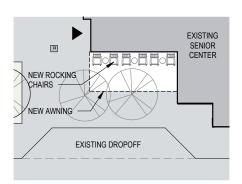
Option 2 - Large Paved Area and Trellis

Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street Boston, MA 02210 Tel: (617) 350-0450 October 2022 C:Users/mbarker/Documents/Needham Senior Center-SP_012012_2021_mbarker/ZU82P.rvt

NEEDHAM CENTER AT THE HEIGHTS

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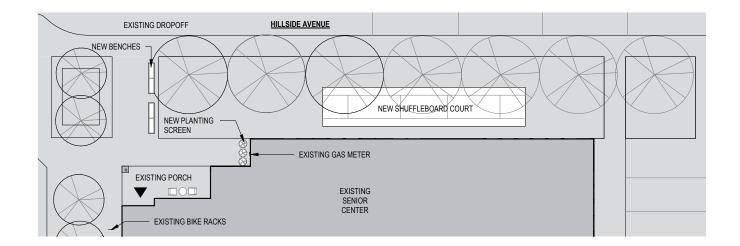




Option 3 - Small Lounge Area

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NEEDHAM CENTER AT THE HEIGHTS
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Option 4 - Shuffleboard Court

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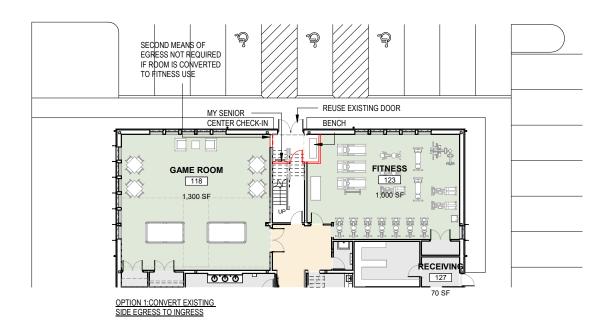


APPENDIX A.6 ARCHITECTURAL STUDIES: VESTIBULE OPTIONS

NEEDHAM CENTER AT THE HEIGHTS

300 Hillside Avenue, Needham Heights, MA 02494

Alternate Accessible Entrance



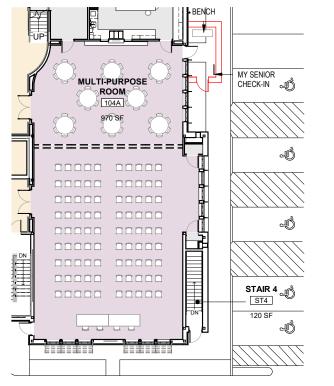
Alternate Egress Plan - Stair

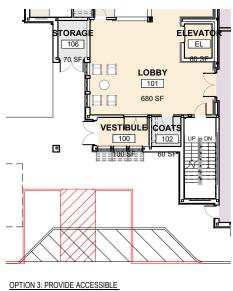
0' 8' 16' 32'

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NEEDHAM CENTER AT THE HEIGHTS

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PARKING AT MAIN ENTRANCE

OPTION 2: PROVIDE VESTIBULE AT MULTIPURPOSE ROOM

Alternate Egress Plan - Multipurpose Room

16' 32' 8'

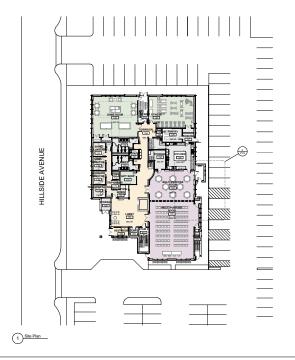
bhia Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street Boston, MA 02210 Tel: (617) 350-0450 September 2022 C:Users\sabaten\Documents\Needham\Senior Center-SP_012012_2021_SSabaten.rvt

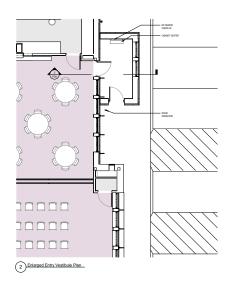
ARCHITECTURAL STUDIES: VESTIBULE OPTIONS

NEEDHAM CENTER AT THE HEIGHTS

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Vestibule at Multipurpose Room

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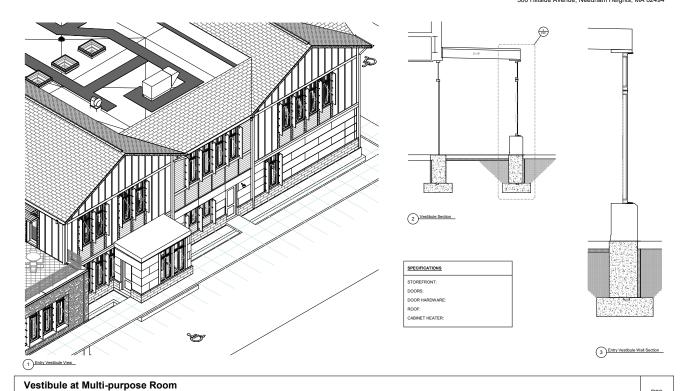
P19

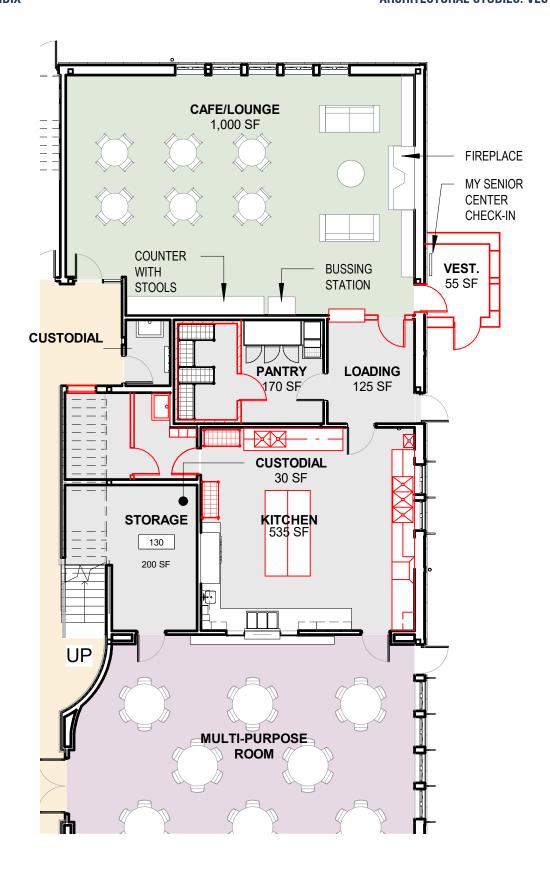
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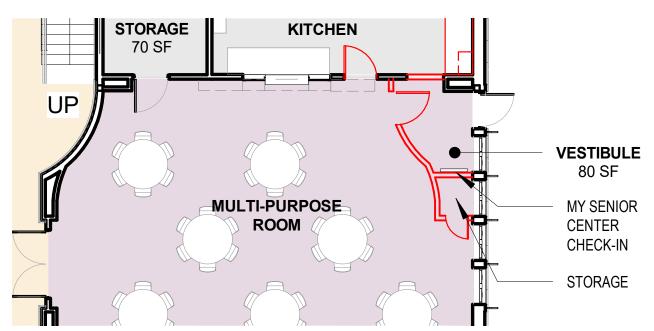
NEEDHAM CENTER AT THE HEIGHTS

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Suite 300 bha@bhplus.com
Boston, MA 02210 www.bhplus.com

meeting notes

date: September 9, 2022

project name and number: Needham CATH Space Utilization Plan #3480

subject: Kick-off Meeting

present: Hank Haff, Director, Needham Building Design & Construction Department

Tim McDonald, Director, Needham Health & Human Services Barry Dulong, Director, Needham Building Maintenance Joel Bargmann, Principal, Bargmann Hendrie + Archetype

by: Rachel Young

The following is a summary of the kickoff meeting held on Friday September 9 via Zoom:

Project Goals

Tim McDonald summarized the project goals as follows:

Assess the CATH, primarily focusing on access and uses. Some assumptions that were made during design may not have been true or have since changed. As the CATH is 10 years old, what we can do for the next ten years?

The primary spaces to study are the exercise room, computer room, and the deck. The staff think that these spaces aren't living up to their "full potential."

Concerning access, reviewing an alternate rear entry, especially for those with mobility impairment, should be studied. The town is looking for an outside expert to codify what is already fairly understood, that a rear entrance is a necessity.

Concerning parking, complaints have gone down because the CATH isn't attracting as many people post COVID. The town would like to understand if this is a permanent or temporary change? Is there an opportunity to renegotiate with the MBTA and have access to some of the closer spaces? Would this be less expensive than adding an entry?

The CATH has not transitioned back to full in-person. There are a fair number of instructors and patrons that prefer remote activities at this point. The town recognizes that there is value to in-person activities and the social emotional health of seniors.

Specific to the deck, what are the ramifications of turning the space into indoor space, especially if determined that the CATH needs more space? BH+A should review zoning (including FAR), egress and structural requirements.

Barry Dulong confirmed that the HVAC system is operational after replacing a rooftop unit.

Kitchen Renovation

Socotec has been engaged to look at converting the existing demonstration kitchen to a commercial kitchen. Traveling Meals ("Meals on Wheels") is prepared at Beth Israel hospital.



Needham CATH Space Utilization Plan #3480 September 9, 2022 Page 2

Springwell prepares meals off site and brings to CATH to heat up. Can the kitchen be modified to prepare 150 meals a day, for both 50 traveling meals packets, 50 in person lunches and 50 in person breakfasts. What is the cost to staff such an operation? The director of school nutrition did a "back of the napkin" assessment. Socotec is "85%" done. Optimistically, a draft would be available in 2-4 weeks.

Generator

Concerning the generator, Dorn Whittier is putting together proposal, project would go out to bid in December-January. Will result +/- 3 parking spaces. Trenching and repainting.

Parking

Stefan does parking counts.

Action Items:

BH+A to:

- 1. Disseminate project contact lists
- 2. Engage parking consultant to review existing conditions
- 3. Set up community outreach calendar with Tim McDonald's assistance
- 4. Send revised work plan

Needham to:

- 1. Send email of introduction to CoA staff and stakeholders
- 2. Forward Socotec's kitchen design when available



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agenda

date: October 7, 2022

project name & number: CATH Space Utilization Study #3480

subject: Progress Meeting 1

distribution: Hank Haff

Tim McDonald Barry Dulong Latanya Steele Katie King

- 1. Review project goals and key areas of study:
 - a. Parking and Accessibility
 - b. Staffing Spaces
 - c. Program Spaces:
 - i. Game Room
 - ii. Fitness Room
 - iii. Rooftop Deck
 - iv. Computer Lab
- 2. Review format for upcoming presentations to CoA and PBC
- 3. Update on community outreach and stakeholder interviews
- 4. Review information needed:
 - a. Future programming expansion goals
 - b. My Senior Center
 - c. Commercial kitchen study
 - d. Cost estimates
- 5. Schedule regular progress meetings



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meeting notes

date: October 7, 2022

project name and number: Needham CATH Space Utilization Plan #3480

subject: Kick-off Meeting

present: Hank Haff, Director, Needham Building Design & Construction Department

Tim McDonald, Director, Needham Health & Human Services Barry Dulong, Director, Needham Building Maintenance Amy Archer, Pare Corporation, Traffic Consultant

by: Rachel Young

The following are the summary of notes from the meeting on October 7 via Teams:

- 1) Background
 - a) Demographic & Usage Data
 - i) The 2020 UMass report indicated 200 daily users. Because not all patrons check-in using My Senior Center, this number is estimated to be 30% higher.
 - ii) Methodology:
 - (1) BH+A has preliminary data from this past year that I need to look into further.
 - (2) From three visits to the site on Tuesday and Thursday mornings, 95 users, including staff, were in the building.
 - b) Key findings from 2020 UMass Study:
 - i) Parking and Accessibility
 - ii) Fitness Room Use and Expanding Physical Activities
 - iii) Need for additional office space, especially for part-time staff and volunteers
 - iv) Underutilized Rooftop Deck
 - v) Underutilized Computer Lab
 - vi) CATH Commercial Kitchen*
 - vii) Solar Canopies*
 - c) Additional findings:
 - i) Underutilized spaces:
 - (1) Storage
 - (2) Informal gathering spaces
 - (3) Basement
 - (4) Break Room
 - (5) Veterans Office
 - (6) SHINE office space



Needham CATH Space Utilization Plan #3480 October 10, 2022 Page 2

- (7) 2nd floor conference room
- (8) Game Room
- ii) Commercial Kitchen
 - (a) Costs
 - (b) Impact on Adjacent Spaces
 - (c) Impact Volunteer and Programming Opportunities
- iii) Hybrid Learning Capabilities: not all program rooms have tvs equipped with cameras.
- iv) Designing for the Future
 - There are several large remote programs that may need to be accommodated in the future
 - (2) Spaces for Caregivers
 - (3) A Living Room Space
 - (a) The lobby was decked out like a living room. Staff wanted the space to be more efficient
 - (b) Lounge/Café Space from Falmouth. This type of space might be taken into consideration with the redesign of the kitchen.
 - (4) Future programming needs impact parking requirements
- v) For each of the issues noted above, there are administrative and architectural solutions.
- d) Additional Work to be Completed:
 - i) Review projected senior population demographic trends
 - ii) Review My Senior Center data from last year
 - iii) Engage with focus groups
 - iv) Speak with Steve and Lisa Cadima, fitness instructors
 - v) Review Commercial Kitchen Study
 - vi) Confirm staff counts

2) Observations and Preliminary Recommendations

- a) Parking
 - i) Parking is scarce during peak usage; generally, Tuesday and Thursday mornings
 - (1) Observed free spaces on X.X
 - (2) "" X.X
 - ii) Accessible parking is scarce
 - iii) Accessible parking is not close to the main entrance
 - iv) Accessible parking is not close to the main entrance
 - v) Van parking is limited
 - vi) We need to design parking for anticipated peak use in the *future*.

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Needham CATH Space Utilization Plan #3480 October 10, 2022 Page 3

vii) Preliminary recommendations:

- (1) Incentive staff, in addition to patrons, to use alternative parking/commuting methods such as the "Starbucks parking lot"
- (2) Add additional van service throughout the day and/or weekend
- (3) Lease additional space from the MBTA lot
- (4) Convert drop-off space to accessible parking spaces. Not recommended. It is too close to the entrance and would be a stressful scenario.
- (5) Validate parking for staff to park at the MBTA lot and reimburse them. This provides flexibility and is less of a financial commitment than leasing. This would also allow the town to study the longterm needs/cost.
- (6) Provide second building entrance in closer to accessible parking spaces
- (7) New Rear Entrance. Most preferred.
- (8) New Side Entrance. Second most preferred. Not as visible. There would need to have changes to landscape to make this entrance more prominent, accessible.
- (9) Provide a minimum of 2 additional accessible spaces. Consider reserved space (for example for octogenarians) that is not fully accessible.
- (10) Questions:
 - (a) Will popular programming ever go back to in person?
 - (b) The meal delivery program will eventually transition to serve only those in need. That will both mean that van drivers are freed up to transport patrons and there will be more in person meals.
 - (c) Where will the generator go? It should take up 2 parking spots.
 - (d) Share planning decision with Pare
 - (e) Town administration indicated that purchasing additional spaces may not be possible but leasing spaces might be possible.
 - (f) Does the MBTA have any studies for future expansion to electric and charging stations for electric vehicles
 - (g) Outdated sign indicating MBTA parking is "numbered" spaces but there are no numbered spaces
 - (h) How many seniors come to the center by van daily? Specifically for the meals program?

b) Fitness Room

- Observed 5-10 patrons using the fitness center equipment. Equipment in use was: bikes, elliptical machine, recumbent bike and treadmills.
- ii) UMass report notes that some equipment lacks required clear floor areas.
- iii) Preliminary Recommendations:
 - (1) Move the fitness room to the Game Room. This gains 300 sf and +/-6 piece of equipment. Least preferred. Town wants to retain the storage space, especially for storing voting machines. There is no natural light, windows. Price option out to show due diligence.
 - (2) Move the fitness room to the basement. This gains 250 sf and +/- 10 pieces of equipment



Needham CATH Space Utilization Plan #3480 October 10, 2022 Page 4

- (3) UMass report suggested "borrowing" space from adjacent rooms and corridor. This is not recommended. Not preferred.
- iv) There is a very popular yoga program that they would need to find space for. BHA should look at how 40 yoga users fit in the large multipurpose room space.

c) Office Space

- i) The CATH has full time and part time staff, complicating office configurations.
- ii) The CATH also has instructors and drivers who are not accounted for.
- iii) It was preferred not to provide office space at the expense of program space.
- iv) Acoustics between offices needed improvement
- v) Preliminary Recommendations:
- vi) On the first floor, consolidate offices and storage space into open office configuration. This is more efficient than individual offices.
- vii) On the second floor, eliminate the wall between Annie's desk and the Veterans office to create an open office.
- viii) Relocate conference room to first floor and relocate Friends' gift shop
- ix) Eliminate Shine offices and use flexible space, such as the computer lab, 3 months of the vear.

d) Rooftop Deck

- The deck is a large (2,000 sf) underutilized largely because it is exposed to the elements, noise from the commuter rail tracks
- ii) Preliminary Recommendations:
 - Create zones of use that subdivide the space into more intimate spaces with specific programs (this was recommended in the UMass report)
 - (2) Provide three-season space or green house
 - (3) Convert space into conditioned interior space. This option is not recommended.
- iii) Look at the FAR implications of converting the deck into conditioned space
- iv) Look at conservatory space off of the library
- v) Is there a shade structure that could be removed in the winter time? Shade sails or a trellis or a roll-out awning with a center beam?

e) Computer Lab

- i) The computer lab is not used beyond a few months in the spring and fall for tax preparation and medicare enrollment, for about six months out of the year. The computer station in the library is used with greater frequency.
- i) Preliminary Recommendations:
 - (1) The UMass report recommended mobile computers.
 - (2) Convert hallway benches to computer stations
 - (3) Combine the computer room and program space into one larger program room
- f) Additional Comments/Thoughts:

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Needham CATH Space Utilization Plan #3480 October 10, 2022 Page 5

- Using the coat closet off of the lobby for storage for the large multipurpose room. Find another location for coats.
- b. Lactation Room
- c. Find original location for the roofdeck trellis
- d. Provide images for discussion with the seniors, of trellis
- e. For the presentation, make sure to solicit thoughts/comments. Stress that this process is reflective and reiterative.
- f. Create leave-behinds for CoA presentation
- g. For the user groups, "How can we improve the space to encourage you to come back?"



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meeting notes

date: November 28, 2022

project name and number: Needham CATH Space Utilization Plan #3480

subject: Progress Meeting

present: Hank Haff, Director, Needham Building Design & Construction Department

Tim McDonald, Director, Needham Health & Human Services

by: Rachel Young

Meeting with Pool Group

Questions:

Flag (Donated)– Hang in lobby?

Use of Rosemary for more community activities like blood drives?

Wellesley

To Do:

Data from Aicha on myseniorcenter

9'7" X 5'5" pool table

Fitness room would need updated lighting

Cons:

Losing ping pong tables

*Newton residents

- Adding more lounge furniture/tables?
- Should be moved?



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meeting notes

date: December 16 and 23, 2022

project name and number: Needham CATH Space Utilization Plan #3480

subject: Progress Meeting

present: Hank Haff, Director, Needham Building Design & Construction Department

Tim McDonald, Director, Needham Health & Human Services

by: Rachel Young

Cost Estimate

Hank Haff had the following comments on the estimate:

1. The Option # columns on each page have a short description in addition to the Option Number.

For instance:

Fitness & Game Room

Option #1 - Fitness & Game rooms swap spaces

Option #2 - Game room moves to 2nd floor

Roof Deck:

Option #1 - Fitness Room Addition

Option #2 – Greenhouse Addition

Option #3- Trellis

Option #4- Shade Sail Structure

- 2. Delete the permit fees (they are not applicable on town projects.).
- 3. Pg 26 Roof Deck Option #2- Greenhouse Addition Fire protection will likely be required
- 4. Pg 28- Shade Sail- and estimated initial construction cost for the shade sail and cables should be
- Pg 29- Division 8-Door buzzer and speaker is likely required at exterior door. ADA buttons and opening hardware will be needed on both the exterior and the interior vestibule doors. This is not broken out under doors & windows
- 6. Include soft costs (Management, Construction contingency, owner's contingency and FF&E)

Commercial Kitchen

Hank Haff asked for a proposal from John Sousa at Crabtree McGrath for him to

- 1. Peer review of existing Socotec layout with recommended modifications & cost estimate
- Full redrawing and layout with modifications to fit into the other café/vestibule options & cost estimate.

Current meal program:

Home meals: 2 meals (cold lunch and hot dinner) x 50 participants

CATH meals: 40-60 in-person hot lunches



Needham CATH Space Utilization Plan #3480 December 16, 2022 Page 2

Future meal program:

The goal would be to enhance capacity of the meals program. Some senior centers that have meals programs have larger "catering" arms that allow the center to subsidize the meal program by providing food for other town departments.

The CATH, for example, could cater the high school football gatherings.

Preferred Options:

Roof Deck Option 4

The town does not want to pursue the office reconfigurations (see below).

Next Steps:

BH+A will explore the following:

"Innie" vestibule in the MPR or future café.

Locating the pool tables in the basement. (plan and rendering)

Convert the computer lab to shared program room space and move social workers to the offices downstairs.

PBC Meeting

Next meeting is scheduled for January 9.



BARGMANN HENDRIE + ARCHETYPE, INC.

Architecture | Planning | Interior Design

9 Channel Center Street Suite 300 Boston, MA 02210 617 350 0450 bha@bhplus.com www.bhplus.com

meeting notes

date: January 13, January 27 and February 3, 2023

project name and number: Needham CATH Space Utilization Plan #3480

subject: Progress Meeting

present: Hank Haff, Director, Needham Building Design & Construction Department

Tim McDonald, Director, Needham Health & Human Services Latanya Steele, Needham CATH Assistant Director of Programming

Danielle Collins, Director of Nutrition Services

Colleen

by: Rachel Young

Date

To Do:

- 1. Get a better cost estimate on the commercial kitchen.
- 2. Reach out to John Sousa.
- 3. Do a layout of the computer room used as an open office.

Follow up with Latanya about:

1. Visiting Falmouth

Office Use: Who uses the spaces when? What is the remote policy?

Time will speak with the Council on Aging (next Thursday) to get better direction on values.

January 13

Meeting with Latanya Steele, Needham CATH Assistant Director of Programming Meeting with Colleen

Latanya and Colleen were most in favor of the kitchen and expanding the fitness room.

Tim presented to the CoA on Thursday.

They liked the idea of converting the basement to a game room because you are adding space for the same cost as renovating.



Needham CATH Space Utilization Plan #3480 December 16, 2022 Page 2

January 27

Socotec provided their feasibility study with PM&C estimate.

Tim McDonald has spoken with 3 senior centers and Danielle from the schools and the staffing levels and the associated costs seem acceptable

Falmouth is a smaller center with 2 part-time staff and volunteers. The Staff Cook, volunteers bus and do the dishes

Falmouth's costs just cover food costs. The staffing costs are subsidized.

Is there an opportunity to charge other departments or community partners that use the CATH for meal events (like the high school) could pay for the CATH to cater these events?

Can card players go into the basement? They are part of a rotating league that goes to different centers. They use for examples

February 3

Meeting with Danielle Collins, Director of Nutrition Services

Danielle had the following advice:

- 1. Maybe just keep the reach-in fridges and then just have a walk-in freezer.
- 2. Combi ovens are highly recommended; they are even more valuable that the 6-burner range.
- 3. Could get by without the dishwasher.
- 4. Don't replace the cabinets if they are functional and can fit the new equipment.
- 5. Baker's rack is helpful for storage.

Needham Council on Aging Board Meeting

October 13, 2022

Present: Colleen Schaller, Chair; Helen Gregory, Penny Grossman, Sandra Prinn, Lianne Relich, Ed Cosgrove, Carol de Lemos, Kate Robey, Kathy Whitney, Sue Mullaney, Dan Goldberg, Ted Prorok, VFW representative

COA: Latanya Steele, Director

Health and Human Services Director: Timothy Muir McDonald

BD & CD: Hank Haff

Consultant for CATH: Rachel Parsons, RA Leed AP associate Bargman, Hendrie & Archetype Inc.

Guests: Carol Ditmor, Anne Brain, and Beverly Pavasaris, Friends of the Cath

Other Guest: Ann Cosgrove

1. Meeting called to order by Ms. Schaller, Board Chair at 5:02 pm combination of in person and on Zoom

2. Nominating Committee

Ms. DeLemos reported that the group had nominated Ms. Colleen Schaller as Chair for another term and Ms. Penny Grossman as Vice Chair.

Ms. Delemos made a motion to re-elect Ms. Schaller as Chair. Mr. Prorok seconded the motion. The motion passed unanimously by voice vote.

Ms. Delemos made a second motion to elect Ms. Grossman as vice chair. Ms. Mullaney seconded the motion. The motion passed unanimously by voice vote.

3. CATH Space Study Discussion

Mr. Haff introduced Ms. Young. Ms. Rachel Young noted she wants to use the meeting as a chance to receive input on the various ideas that her firm has designed as a part of the feasibility study. She noted there is a parallel study taking place on revamping the kitchen area. Ms. Young is open to suggestions. She presented a preliminary report that had already been shared with Mr. McDonald and Ms. Steele.

She noted the 2020 study used 2019 data. Ms. Young noted this is a reiterate process.

She noted that several needs are at the top of the list. These include:

- Expanding the fitness center
- Need for increased office space
- The roof deck is underutilized
- Computer lab underutilized
- Kitchen needs to be commercial especially if eventually the Traveling Meals program needs to be moved in house (which may be likely as the BEI Deaconess Needham hospital expands

- and their meal preparation space decreases.) The need to increase space in other areas impacts on the separate kitchen expansion/study plan
- The opportunity for a multi-use café/lounge area-this could include café seating and a grab and go window similar to the Falmouth, MA senior center redesign.
- Reorganization of storage space
- Hybrid learning programming capabilities where the presenter or attendees are virtual
- Right sizing the car park which is currently at capacity
- Swapping the game room with the fitness room.
- The possibility of moving the fitness room to the basement.
- Making the roof deck a series of rooms or zones which fits in with the FRA zoning
 regulations. This could include walls and plantings to screen noise and provide a sense of
 place, soft furnishings, a moveable awning to provide shade over approximately one half of
 the deck which could be over the seating area. Also, a separate space for shuffleboard/pool
 table/ping pong area and a firepit.
- Office space expansion. This could involve moving offices to the first floor and programming
 to the second floor, making the current Veteran's office for 1 staff member into two while
 remaining mindful that the social service staff needs private offices for client meetings. Mr.
 McDonald noted that when the building came online in 2013 there was only one social
 service staff person, so the staff have grown to meet many social service needs but while
 programming has increased dramatically.
- Expanding the back parking lot with a substantial new entrance to accommodate handicapped patrons.

A long and varied Board discussion occurred:

This included options for "getting back" some of the underused MBTA parking post-pandemic.

The need for a ballet bar and more floor space in the fitness area as well as new flooring if the game room is switched with the fitness room. The floor space is needed to remove tripping hazards and to accommodate increased use with the new balance machine. The Board also noted they are happy to be one of the few senior centers with licensed fitness trainers on site.

Maintenance of the roof deck greenery and including seating and soft furnishings that can withstand winter weather.

The need to maintain the Gift Shop in the CATH as it provides an important source of programming funding.

The board feels natural light and easy access is important in the fitness room and wants to keep it on the first floor.

Plant and furnishing maintenance on the roof deck are serious issues with both the custodian and staff fully occupied elsewhere in the building.

Mr. McDonald noted that the next steps could include incremental changes over time to fit in with budget plans. He noted the Town's Capital plans are always several years out.

Next Steps for Ms. Young's firm

Focus groups with seniors October 18 and 20th
Reach out to MBTA with parking questions
Meetings with Ms. Steele and her staff
Review My Senior Center and transportation data
Identify preferred options with each user group
Review roof deck options with acoustic and structural consultants
Estimate costs associated with preferred options

- 4. Aging Services Division Report Postponed until November.
- 5. Chairperson's Report Ms. Schaller
 - a. Approval of June 9, 2022, Minutes

Mr. Goldberg made a motion to approve the June 9 Minutes. Ms. Grossman seconded. The minutes were unanimously approved by voice vote.

September 8, 2022, Minutes vote postponed until November.

6. Old Business

Planning Board Meeting - Ms. Schaller and Mr. Cosgrove attended the last meeting on behalf of the Board. Colleen noted they are meeting again on the 18th. The COA Board has no idea how they are leaning re: voting on the 100 West Street/former Avery site project but the vote is first on their agenda.

The Board briefly discussed the project.

The Board agreed they wished to write a letter concerning the project. Mr. Goldberg made a motion for Ms. Schaller, Board Chair to write a letter noting the Council on Aging Board is opposed to granting a special permit for the 100 West Street project without the inclusion of independent living at that site as approved by Town meeting. Mr. Cosgrove seconded the motion. The motion passed unanimously. Ms. Schaller will send the letter prior to the October 18th meeting.

7. New Business

Ms. Schaller noted that volunteers are still needed to deliver the Springwell meals from the CATH.

Ms. Schaller noted that the Needham Exchange Club wants to use the CATH to pack 125 lunches for the Veterans Association of Boston serving one of their homeless shelters. She noted that

PERMANENT PUBLIC BUILDING COMMITTEE

TOWN OF NEEDHAM

MINUTES OF MEETING

Date: October 25, 2022 Time: 7:30 PM Location: Zoom Cloud Meeting

Attendance

PPBC Members: Present: Stuart Chandler, Richard Creem, George Kent,

Irwin Silverstein

Absent: Lynne Deninger, Roy Schifilliti, Gene Voloshin

BDCD Staff: Hank Haff (Director)

Ken Sargent (Senior Project Manager)

User Representatives: Ed Olsen Parks & Forestry Director, Ridge Hill, Rep.

Barry Dulong Bldg Maintenance Director, Ridge Hill, RTU

Replacement CATH, & Rep.

Michael Greis School Committee, Emery Grover Rep.

Anne Gulati School Finance Director, Emery Grover, Theater

Sound & Light, RTU Replacement Rep.

LeeAnn Sutton Fine & Performing Arts Director, Sound & Light

Ren.

Tim McDonald Director of Health & Human Services, CATH Rep.

Other Attendees: Deborah Robinson Bargmann Hendrie & Archetype

Matt DiSalvo GGD Consulting Engineers
Rachel Young Bargmann Hendrie & Archetype

Amy Archer PARE

Minutes prepared by: Hank Haff Director

This meeting was posted on the Town web site on October 20, 2022, as a:

Hybrid/Virtual Meeting at the PSAB and on Zoom Cloud Meetings

Meeting ID # 88414728107

https://us02web.zoom.us/j/88414728107

with the following instructions:

To view and participate remotely in this meeting on your computer, at the above date and time, go to www.zoom.us, click "Join a Meeting" and enter the Meeting ID: 884-1472-8107 Or join the meeting at link: https://us02web.zoom.us/j/88414728107

A. Approval of Minutes

The Committee reviewed the minutes from the October 11, 2022 PPBC meeting. Mr. Chandler made a motion that the Committee approve the minutes as presented. Mr. Silverstein seconded the motion. The motion was then voted upon and approved 4 yeas - 0 nays - 0 abstain.

PPBC Minutes of Meeting October 25, 2022 Page 1

B. Ridge Hill Demolition

Barry Dulong (DPW), Ed Olsen (Parks & Forest), Ken Sargent and Hank Haff (BDCD) attended the meeting remotely.

Mr. Sargent reported on the progress of the project. The kickoff meeting with S&R Corporation happened October 20th. They are applying for the demolition permit and filing for the DEP notification for the asbestos removal. In two weeks, demolition should start if all permits are obtained. The Town – Contractor Agreement contract documents are being processed.

Everything of value has been removed from the building. Some Items were delivered to the Needham Historical Society, Conservation Department removed old files, DPW removed remaining items from the garage. All remaining contents are part of the demolition.

Documents: Invoice, Updated budget

C. <u>Emery Grover Building / Hillside</u>

Michael Greis (School Committee), Anne Gulati (School Finance Director), Deborah Robinson (BH+A), Hank Haff and Ken Sargent (BDCD) attended the meeting remotely.

Mr. Chandler noted that Warrant Article #10 for supplemental funding of the Emery Grover Renovations project was approved at yesterday's Special Town Meeting. This provides \$2.725 Million in additional contingency funds. This enables the Town to proceed with the award of the contract to the low bidder, M. O'Connor Contracting, Inc. (MOCC). Mr. Haff will send the Notice of Award and draft contract tomorrow and schedule a kick-off meeting next week.

Because no elevator bids were received the BD&CD has solicited bids from four elevator contractors recommended by BH+A. The GCs all carried an estimated value of \$350,000 in their bids. Once the elevator re-bids are received on 11/3/22 the GC contract will be amended up or down by change order. If there is an increase in the cost of the elevator would be covered by the contingency. The current project budget has over \$600,000 in contingency remaining after the GC contract is awarded for \$15.747 Million which is sufficient to mover the project forward now.

Mr. Sargent reported that the Hillside Renovation work is progressing well. Some long lead items for electrical and mechanical are expected by mid-November. Bid documents for the move are being prepared. IT is now settled in the cafeteria space. The production office will move in early December with other departments moving after 12/21/22. Some staff will work remotely during the move period.

Mr. Dulong reported that the boiler work is nearing completion. Boiler commissioning is anticipated in one to two weeks. Unit ventilators are being reassembled. The electrical upgrade is awaiting a disconnect switch, now required by Eversource, which should be received by mid-November.

PPBC Minutes of Meeting October 25, 2022 Page 2

Mr. Chandler made a motion that the Committee approve the following change order for two adds:

J.J. Cardosi Construction CO #4 \$ 4,672.71

Mr. Kent seconded the motion. The motion was then voted upon and approved unanimously - 6 yeas - 0 nays - 0 abstain.

Mr. Chandler made a motion that the Committee approve the following invoices for payment: Bargmann Hendrie & Archetype September 2022 Services Hillside \$ 9,686.25 Mr. Greis seconded the motion. The motion was then voted upon and approved unanimously - 6 yeas - 0 nays - 0 abstain.

Mr. Chandler made a motion that the Committee approve the following invoice for payment: Hill International September 2022 Services \$ 21,212.33 Mr. Creem seconded the motion. The motion was then voted upon and approved unanimously - 6 yeas - 0 nays - 0 abstain.

Mr. Chandler made a motion that the Committee approve the following invoice for payment: Wakefield Moving & Storage IT move to cafeteria \$9,740.00 Mr. Creem seconded the motion. The motion was then voted upon and approved unanimously - 6 yeas - 0 nays - 0 abstain.

Documents: Invoices, CO4

D. Theater Sound & Light Study

Anne Gulati (School Finance Director), LeeAnn Sutton (Fine & Performing Arts Director), Hank Haff (BDCD) attended the meeting.

Four firms submitted their qualifications on October 13th. They were Hewshott International LLC, Schuler Shook, Studio T+L LLC, and Theater Design Inc. Hewshott International LLC, Schuler Shook, and Studio T+L LLC were shortlisted for interviews that occurred earlier today. The subcommittee of Ms. Gulati, Ms. Sutton, and Mr. Haff ranked Hewshott first, Studio T+L second and Schuler Shook third.

Mr. Chandler moved that the contract be awarded to Hewshott International LLC. Mr. Creem seconded the motion. The motion was then voted upon and approved unanimously -6 yeas -0 nays -0 abstain.

Documents: Ranking sheet

E. <u>RTU Replacement at Broadmeadow and Eliot Schools</u>

Anne Gulati (School Finance Director), Barry Dulong (DPW), Hank Haff (BDCD) and Matt DiSalvo (GGD) attended the meeting.

Mr. Haff distributed the Draft Report dated 10/14/22 to the committee last week. Mr. DiSalvo presented a slideshow overview or the key points in this report including:

• Assessment of the existing conditions of RTUs at both schools

PPBC Minutes of Meeting October 25, 2022 Page 3

MEETING MINUTES APPENDIX

- Energy Recovery RTUs will be required by the energy code in 2023
 - o Larger Unit footprint & weight
 - o Reduced energy usage
 - o Reduced heating & cooling capacity required
- Studying air sourced heat pumps (ASHP)
 - o Eliminate natural gas at the RTU reduce carbon footprint.
 - o Detailed review of electric infrastructure next
- Demand Control Ventilation
 - o 5 of 9 AHU serve VAV duct systems
 - Opportunity for reduced energy use
- Repair recommendations by Architect
 - o Some roof repairs needed to extend roof life for another decade
 - o Adapter curbs for RTUs will be studied to install new larger units
 - o Age of roof (20years) a concern for solar PV installation now
 - o Roof size and orientation ideal for future installation after roof repair
 - o MSBA accelerated repair program not eligible until roof is at least 25-years old
- Next Steps- Explore options, energy analysis, cost analysis- return in December 2022

Documents: Draft report, Overview slideshow

F. <u>CATH Space Utilization Study</u>

Tim McDonald (Health & Human Services), Barry Dulong (DPW), Hank Haff (BDCD), Rachel Young (BH+A) and Amy Archer (PARE) attended the meeting.

Ms. Young presented a slideshow on study to date which explored the following issues identified in the UMass 2020 report: 1) Parking & accessibility, 2) fitness space (too small), 3) office space expansion/reorganization, 4) computer lab (low use), 5) roof deck (underutilized). 6) Kitchen expansion to commercial kitchen being studied by others. Interviews are being conducted with staff, user groups and a presentation of these issues and opportunities has been made to the Council on Aging (COA). Concept images are included in the presentation. Town Manager is opening discussions with the MBTA about parking since post-COVID ridership remains low. These opportunities will be explored in further detail and the construction costs will be estimated to enable the PPBC and CATH to develop a priority and phasing of any future projects.

Documents: slideshow

G. Adjournment

The meeting was adjourned at 9:45 PM.

The next PPBC meeting is scheduled for Monday, November 14, 2022, at 7:30 PM, as a Virtual Meeting on Zoom Cloud Meetings.

These minutes are intended to convey the content of the discussions at the Committee meeting. If no comments are received by the next meeting, they will go to file as part of the permanent Committee record.

PPBC Minutes of Meeting October 25, 2022 Page 4

APPENDIX MEETING MINUTES

other members are providing small home repairs to Needham seniors in their homes. The Exchange Club will have a small party for the volunteers including beer and wine after the homeless shelter lunchtime meal event. Mr. Cosgrove made a motion to approve the one-day rental of the CATH for purposes of the lunch packing volunteer event. Ms. Robey seconded. The vote was unanimous to allow the 1-day rental by voice vote. Mr. McDonald noted he will process the necessary paperwork for the license to be approved.

8. Ms. Helen Gregory, Housing Subcommittee Report

Ms. Gregory provided an update. The Housing group reviewed its draft recommendation on September 29th. On October 11^{th,} the group presented the plan to the Select Board. The response was positive, and the group hopes for an implementation commitment. Their next meeting is October 27th followed by a community wide meeting for input on November 16th. The Committee will wrap up its work on December 8th.

9. Mr. Ted Prorok, VFW Representative Report

Mr. Prorok noted that Nancy Blanchard, the 5 town Veterans Representative has recently resigned.

Mr. McDonald noted it was a loss to the Town and he is working on a replacement. He noted it was a challenge with the Director deployed and the Deputy Director's resignation.

Mr. Prorok also noted that the singalong and Veterans breakfast in the November 2021 Compass was missing in the online November 2022 version. Ms. Schaller noted she will check with Ms. Kelley on the status of November veterans' events.

10. Ms. Schaller requested a Motion to Adjourn

Ms. Gregory made a motion to adjourn; Ms. Robey seconded this motion. The board unanimously adjourned at 6:29 pm

Respectfully Submitted,

Faith Crisley

Recording Secretary



APPENDIX C.1 COST ESTIMATE - NOVEMBER 11, 2022



Feasibility Estimate

Needham Senior Center Kitchen Renovations

Needham, MA

PMC LLC 20 Downer Avenue, Suite 5 Hingham MA 02043 (ph) 781-740-8007

NEEDHAM CATH SPACE UTILIZATION STUDY

Prepared for:

Socrete AE Consulting, LLC November 11, 2022



11-Nov-22

Feasibility Estimate

MAIN CONSTRUCTION COST SUMMARY

	Construction Start	\$/SF	Estimated Construction Cost
	Summer 2023		
KITCHEN RENO			\$665,631
HAZ MAT Removal			NIC
SUBTOTAL TRADE COSTS			\$665,631
Design and Estimating Contingency	15.0%		\$99,845
Escalation	5.3%		\$35,278
SUBTOTAL			\$800,754
General Conditions/GR's -			\$100,000
Insurances	2.0%		\$18,015
Bond	1.00%		\$8,008
Fee	10.0%		\$92,678
Building Permit			Assume by Owner
AL CONSTRUCTION COSTS			\$1,019,455



Neothern Senior Conter Kitchen Renovations Neothern, MA

11-Nov-22

Penalbility Estimate

This Feasibility estimate was produced from drawings propered by Secrete AE Consulting dated Cotober 11, 2022. Design and engineering changes constring subsequent to the issue of these documents have not been incorporated in this estimate.

This estimate includes all direct construction costs, general contractor's overhead and profit and design contingency. Cost escalation assumes start dates indicated.

Bidding conditions are expected to be negotiated pricing to pre-qualified general contractors, and pre-qualified sub-contractors, open specifications for materials and manufacturers.

The estimate is based on prevailing wage rates for construction in this market and represents a reasonable opinion of cost. It is not a prediction of the successful bid from a contractor as bids will vary due to fluctuating market conditions, errors and omissions, proprietary specifications, lack or surplus of biddees, perception of risk, etc. Consequently the estimate is expected to full within the range of bids from a number of competitive contractors or subcontractors, however we do not warrant that bids or negotiated prices will not vary from the final construction cost estimate.

ITEMS NOT CONSIDERED IN THIS ESTIMATE

Deme not included in this estimate are:

All professional flos and insurance
Building Permit costs
Land acquisition, feasibility, and financing costs
All Permishings, Pixtures and Equipment
Dema identified in the design as Not In Contract (NIC)
Dema identified in the design as by others
Owner supplied and/or installed items (e.g. draperies, furniture and equipment)
Construction or occupancy phasing or off hours' work - except as noted in the estimate



Feasibility Estimate

CONSTRUCTION COST SUMMARY IN CSI FORMAT

		Subtotal	Total
DIV. 2	EXISTING CONDITIONS 024100 Selective Demolition 025000 Haz Mat Removal	\$32,355 N.I.C.	\$32,355
DIV. 3	CONCRETE 031000 Concrete	\$7,500	\$7,500
DIV. 4	MASONRY 042000 Unit Masonry	\$ 0	\$0
DIV. 5	METALS 055000 Metal Fabrications	\$2,823	\$2,823
DIV. 6	WOODS, PLASTICS & COMPOSITES 061000 Rough Carpentry 062000 Finish Carpentry	\$1,882 \$2,823	\$4,705
DIV. 7	THERMAL & MOISTURE PROTECTION 070001 Joint Sealants, Waterproofing & Dampproofing	\$941	\$941
DIV. 8	DOORS & WINDOWS 081110 Doors, Frames and Hardware	\$o	\$0
	FINISHES 090002 Tile 090003 Acoustical Tile 090007 Painting 090003 Resilient Flooring 096800 Carpet 092900 GWB Assemblies SPECIALTIES 101100 Visual Display Boards 101400 Signage	\$0 \$56,851 \$6,084 \$0 \$1,000 \$12,882	\$76,817 \$29,720
	102113 Toilet Compartments 102600 Wall Protection 102813 Toilet Accessories 104400 Fire Protection Specialties	\$0 \$27,720 \$0 \$1,000	



Feasibility Estimate

CONSTRUCTION COST SUMMA	RY IN CSI FORMAT	
	Subtotal	Total
DIV. 11 EQUIPMENT		\$254,070
114000 Food Service Equipment	\$254,070	
DIV. 12 FURNISHINGS		\$28,800
123000 Casework	\$28,800	
126000 Window Treatments	\$ 0	
DIV. 13 SPECIAL CONSTRUCTION		\$0
139000 Special Construction	\$ 0	
DIV. 14 CONVEYING		\$0
142000 Conveying	\$ 0	
DIV.21 FIRE PROTECTION		\$4,705
210000 Fire Protection	\$4,705	
DIV.22 PLUMBING		\$85,775
220000 Plumbing	\$85,775	. 0,,,0
DIV.23 HVAC		\$64,018
230000 HVAC	\$64,018	• • •
DIV.26 ELECTRICAL		\$61,402
260000 Electrical	\$61,402	
DIV.32 EARTHWORK		\$12,000
320000 Earthwork	\$12,000	¥,
SUBTOTAL DIRECT (TRADE) COST		\$665,631



<u> </u>	DESCRIPTION	QTY	UNIT	UNIT COST	COST	TOTAL	c
en Renov		•		<u>'</u>		<u>'</u>	
	Renovation area						
	Kitchen	941					
	TOTAL	941	gsf				
02	EXISTING CONDITIONS]					
021500	DEMOLITION		c				
	Remove SOG for new below grade grease trap and floor drains	300	sf -£	15.00	4,500		
	Demo and remove ceramic tile floor finishes and bases	941	sf	6.00	5,646		
	Demo and remove ceiling (tile and gwb) Demo and remove door, frame and hardware	941	sf	3.00	2,823		
			16	26.00	NIC		
	GWB from one side of ETR framing Missellaneous interior demolition, counters, essework and	200	lf acf	36.00	7,200		
	Miscellaneous interior demolition - counters, casework and accessories etc.	941	gsf	2.00	1,882		
	Remove cut and capped fixtures and fittings	941	gsf	4.00	3,764		
	Remove existing kitchen equipment				By owner		
	Temp partition	30	lf	108.00	3,240		
	Temp door	1	loc	800.00	800		
	Dust control & protection of existing to remain - allowance	1	ls	2,500.00	2,500		
	SUBTOTAL					32,355	
025000							
	HAZ MAT removal				By Owner		
	SUBTOTAL					-	
TOTALES	XISTING CONDITIONS						
101111	abilité constillons						
03	CONCRETE	7					
03	CONCRETE]					
03							
		300	sf	25.00	7,500		
	CONCRETE	300	sf	25.00	7,500	7,500	
031000	CONCRETE Replace slab on grade with new- SUBTOTAL	300	sf	25.00	7,500	7,500	
	CONCRETE Replace slab on grade with new- SUBTOTAL	300	sf	25.00	7,500	7,500	
031000	CONCRETE Replace slab on grade with new- SUBTOTAL	300	sf	25.00	7,500	7,500	
031000	CONCRETE Replace slab on grade with new- SUBTOTAL ONCRETE MASONRY	300	sf	25.00	7,500	7,500	
031000 TOTAL CO	CONCRETE Replace slab on grade with new- SUBTOTAL ONCRETE MASONRY	300	sf	25.00	7,500	7,500	
031000 TOTAL CO	CONCRETE Replace slab on grade with new- SUBTOTAL ONCRETE MASONRY UNIT MASONRY SUBTOTAL	300	sf	25.00	7,500	7,500	
031000 TOTAL CO	CONCRETE Replace slab on grade with new- SUBTOTAL ONCRETE MASONRY UNIT MASONRY SUBTOTAL	300	sf	25.00	7,500	7,500	
031000 TOTAL CO	CONCRETE Replace slab on grade with new- SUBTOTAL ONCRETE MASONRY UNIT MASONRY SUBTOTAL	300	sf	25.00	7,500	7,500	
031000 TOTAL CO 04 042000 TOTAL M	CONCRETE Replace slab on grade with new- SUBTOTAL ONCRETE MASONRY UNIT MASONRY SUBTOTAL ASONRY METALS	300	sf	25.00	7,500	7,500	
031000 TOTAL CO 04 042000	CONCRETE Replace slab on grade with new- SUBTOTAL ONCRETE MASONRY UNIT MASONRY SUBTOTAL ASONRY			25.00	7,500 2,823	7,500	
031000 TOTAL CO 04 042000 TOTAL M	CONCRETE Replace slab on grade with new- SUBTOTAL ONCRETE MASONRY UNIT MASONRY SUBTOTAL ASONRY METALS METAL FABRICATIONS	300	sf			-	
031000 TOTAL CO 04 042000 TOTAL M 05 055000	CONCRETE Replace slab on grade with new- SUBTOTAL DNCRETE MASONRY UNIT MASONRY SUBTOTAL ASONRY METALS METAL FABRICATIONS Misc. metals allowance SUBTOTAL					7,500 - - 2,823	
031000 TOTAL CO 04 042000 TOTAL M	CONCRETE Replace slab on grade with new- SUBTOTAL DNCRETE MASONRY UNIT MASONRY SUBTOTAL ASONRY METALS METAL FABRICATIONS Misc. metals allowance SUBTOTAL					-	
031000 TOTAL CO 04 042000 TOTAL M 05 055000	CONCRETE Replace slab on grade with new- SUBTOTAL DNCRETE MASONRY UNIT MASONRY SUBTOTAL ASONRY METALS METAL FABRICATIONS Misc. metals allowance SUBTOTAL					-	
031000 TOTAL CO 04 042000 TOTAL M 05 055000 TOTAL M	CONCRETE Replace slab on grade with new- SUBTOTAL DIVITE MASONRY UNIT MASONRY SUBTOTAL ASONRY METALS METAL FABRICATIONS Misc. metals allowance SUBTOTAL ETALS WOOD & PLASTICS					-	
031000 TOTAL CO 04 042000 TOTAL M 05 055000	CONCRETE Replace slab on grade with new- SUBTOTAL DNCRETE MASONRY UNIT MASONRY SUBTOTAL ASONRY METALS METAL FABRICATIONS Misc. metals allowance SUBTOTAL ETALS WOOD & PLASTICS	941	gsf		2,823	-	
031000 TOTAL CO 04 042000 TOTAL M 05 055000	CONCRETE Replace slab on grade with new- SUBTOTAL DINCRETE MASONRY UNIT MASONRY SUBTOTAL ASONRY METALS METAL FABRICATIONS Misc. metals allowance SUBTOTAL ETALS WOOD & PLASTICS ROUGH CARPENTRY Misc. blocking allowance			3.00		2,823	
031000 TOTAL CO 04 042000 TOTAL M 05 055000 TOTAL M 06 061000	CONCRETE Replace slab on grade with new- SUBTOTAL DNCRETE MASONRY UNIT MASONRY SUBTOTAL ASONRY METALS METAL FABRICATIONS Misc. metals allowance SUBTOTAL ETALS WOOD & PLASTICS ROUGH CARPENTRY Misc. blocking allowance SUBTOTAL	941	gsf	3.00	2,823	-	
031000 TOTAL CO 04 042000 TOTAL M 05 055000	CONCRETE Replace slab on grade with new- SUBTOTAL DNCRETE MASONRY UNIT MASONRY SUBTOTAL ASONRY METALS METAL FABRICATIONS Misc. metals allowance SUBTOTAL ETALS WOOD & PLASTICS ROUGH CARPENTRY Misc. blocking allowance SUBTOTAL	941	gsf	3.00	2,823	2,823	

Needham Senior Center Kitchen Renovations Needham, MA

CSI		DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	COS
itcher	n Renovat							
		SUBTOTAL					2,823	
7	TOTAL WO	OD & PLASTICS						
_								
L	07	THERMAL & MOISTURE PROTECTION	_					
	070001	WATERPROOFING, DAMPPROOFING & CAULKING						
		Sealant allowance	941	gsf	1.00	941		
		SUBTOTAL					941	
7	TOTAL THE	ERMAL AND MOISTURE PROTECTION						
Г	08	DOORS & WINDOWS	1					
_	094400	DOODG EDAMEGAND HARDWARE	_					
	081100	DOORS, FRAMES AND HARDWARE No work assumed						
		SUBTOTAL					-	
F=								
1	TOTAL DOG	ORS AND WINDOWS						
	09	FINISHES						
	0900002							
		Ceramic wall tile backsplash	84	sf	40.00	3,360		
		Quarry floor tile Quarry floor tile base	941 201	sf lf	38.00 18.00	35,758 3,618		
		SUBTOTAL	201	11	16.00	3,016	_	
		SOBIOTIE						
	0900003	ACOUSTIC CEILING TILE						
		Acoustic ceiling tile; washable	941	sf	15.00	14,115		
		SUBTOTAL					56,851	
	090007	PAINTING AND COATING						
	,	Prepare, prime and paint existing to remain walls and doors allowance	1	ls	1,500.00	1,500		
		New sheetrock walls	764	sf	6.00	4,584		
		SUBTOTAL					6,084	
	096500	RESILIENT FLOORING						
	, ,	No work assumed						
		SUBTOTAL					-	
	096800	CARPET						
	090000	Allowance to patch and repair assumed carpet at dinning	1	ls	1,000.00	1,000		
		SUBTOTAL					1,000	
	000000	CVDCIIM DO A DO ACCEMBITIC						
	092900	GYPSUM BOARD ASSEMBLIES Apply new MR GWB to existing studs	1,800	sf	5.00	9,000		
		Allowance to patch ETR partitions disturbed by new MEP work	941	gsf	2.00	1,882		
		GWB ceilings and soffits allowance	1	ls	2,000.00	2,000		
		SUBTOTAL					12,882	
7	TOTAL FIN	ISHES						\$
Г	o - SPECIA	A TIES						
1	o-srecia	LITES .						
	101100	VISUAL DISPLAY SURFACES				No scope		
		SUBTOTAL					-	



DE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
tchen Renova	ation		l l		l.	L	
101400	SIGNAGE						
	Signage and graphics allowance	1	ls	1,000.00	1,000		
	SUBTOTAL					1,000	
102110	TOILET COMPARTMENTS						
	SUBTOTAL					-	
102600	WALL Protection						
102000	Stainless steel wall panel (8' high)	256	sf	50.00	12,800		
	FRP wall panel (8' high)	696	sf	20.00	13,920		
	Allowance for wall protection	1	ls	1,000.00	1,000		
	SUBTOTAL			2,000.00	-,	27,720	
						-/	
102800	TOILET ACCESSORIES						
	No work assumed						
	SUBTOTAL					-	
104400	FIRE PROTECTION SPECIALTIES						
204400	Fire extinguisher cabinets	1	ls	1,000.00	1,000		
	SUBTOTAL	1	15	1,000.00	1,000	1,000	
	SUBTOTAL					1,000	
TOTAL - S	SPECIALTIES						\$29,7
11 - EQUIF	MENT						
114000	FOOD SEWRVICE EQUIP.						
	Food service equipment budget per Colburn Guyette report dated 8- 12-22	941	sf	270.00	254,070		
	SUBTOTAL					254,070	
TOTAL - 1	EQUIPMENT						\$254,0
12 - FURN	ISHINGS						
	ISHINGS o CASEWORK						
		15	lf	550.00	8,250		
	o CASEWORK	15 11	lf lf	550.00 550.00	8,250 6,050		
	o CASEWORK Pickup, base and counter Prep cabinet, base and counter Prep upper shelf						
	o CASEWORK Pickup, base and counter Prep cabinet, base and counter Prep upper shelf Serving cabinet, base and counter	11	lf lf lf	550.00 350.00 550.00	6,050		
	o CASEWORK Pickup, base and counter Prep cabinet, base and counter Prep upper shelf Serving cabinet, base and counter Serving upper shelf	11 11 14 5	lf lf lf lf	550.00 350.00 550.00 350.00	6,050 3,850 7,700 1,750		
	O CASEWORK Pickup, base and counter Prep cabinet, base and counter Prep upper shelf Serving cabinet, base and counter Serving upper shelf Misc. casework at serve window	11 11 14	lf lf lf	550.00 350.00 550.00	6,050 3,850 7,700		
	o CASEWORK Pickup, base and counter Prep cabinet, base and counter Prep upper shelf Serving cabinet, base and counter Serving upper shelf	11 11 14 5	lf lf lf lf	550.00 350.00 550.00 350.00	6,050 3,850 7,700 1,750	28,800	
12300	O CASEWORK Pickup, base and counter Prep cabinet, base and counter Prep upper shelf Serving cabinet, base and counter Serving upper shelf Misc. casework at serve window	11 11 14 5	lf lf lf lf	550.00 350.00 550.00 350.00 200.00	6,050 3,850 7,700 1,750	28,800	
12300	O CASEWORK Pickup, base and counter Prep cabinet, base and counter Prep upper shelf Serving cabinet, base and counter Serving upper shelf Misc. casework at serve window SUBTOTAL	11 11 14 5	lf lf lf lf	550.00 350.00 550.00 350.00 200.00	6,050 3,850 7,700 1,750 1,200	28,800	
12300	O CASEWORK Pickup, base and counter Prep cabinet, base and counter Prep upper shelf Serving cabinet, base and counter Serving upper shelf Misc. casework at serve window SUBTOTAL	11 11 14 5	lf lf lf lf	550.00 350.00 550.00 350.00 200.00	6,050 3,850 7,700 1,750 1,200	28,800	
12300 12600	O CASEWORK Pickup, base and counter Prep cabinet, base and counter Prep upper shelf Serving cabinet, base and counter Serving upper shelf Misc. casework at serve window SUBTOTAL	11 11 14 5	lf lf lf lf	550.00 350.00 550.00 350.00 200.00	6,050 3,850 7,700 1,750 1,200	28,800	\$28,8
12300 12600 TOTAL - 1	O CASEWORK Pickup, base and counter Prep cabinet, base and counter Prep upper shelf Serving cabinet, base and counter Serving upper shelf Misc. casework at serve window SUBTOTAL O WINDOW TREATMENTS SUBTOTAL	11 11 14 5	lf lf lf lf	550.00 350.00 550.00 350.00 200.00	6,050 3,850 7,700 1,750 1,200	28,800	\$28,8
12300 12600 TOTAL - 1 21 - FIRE 1	O CASEWORK Pickup, base and counter Prep cabinet, base and counter Prep upper shelf Serving cabinet, base and counter Serving upper shelf Misc. casework at serve window SUBTOTAL O WINDOW TREATMENTS SUBTOTAL	11 11 14 5	lf lf lf lf	550.00 350.00 550.00 350.00 200.00	6,050 3,850 7,700 1,750 1,200	28,800	\$28,8
12300 12600 TOTAL - 1 21 - FIRE 1	O CASEWORK Pickup, base and counter Prep cabinet, base and counter Prep upper shelf Serving cabinet, base and counter Serving upper shelf Misc. casework at serve window SUBTOTAL O WINDOW TREATMENTS SUBTOTAL FURNISHINGS PROTECTION O FIRE PROTECTION Remove and reinstall branch piping and sprinkler heads as	11 11 14 5	lf lf lf lf	550.00 350.00 550.00 350.00 200.00	6,050 3,850 7,700 1,750 1,200	28,800	\$28,8
12300 12600 TOTAL - 1 21 - FIRE 1	O CASEWORK Pickup, base and counter Prep cabinet, base and counter Prep upper shelf Serving cabinet, base and counter Serving upper shelf Misc. casework at serve window SUBTOTAL O WINDOW TREATMENTS SUBTOTAL FURNISHINGS PROTECTION Remove and reinstall branch piping and sprinkler heads as required for renovated spaces	11 11 14 5 6	If If If If If If	550.00 350.00 550.00 350.00 200.00	6,050 3,850 7,700 1,750 1,200 Assume ETR	-	\$28,8
12300 12600 TOTAL - 1 21 - FIRE 1	O CASEWORK Pickup, base and counter Prep cabinet, base and counter Prep upper shelf Serving cabinet, base and counter Serving upper shelf Misc. casework at serve window SUBTOTAL O WINDOW TREATMENTS SUBTOTAL FURNISHINGS PROTECTION O FIRE PROTECTION Remove and reinstall branch piping and sprinkler heads as	11 11 14 5 6	If If If If If If	550.00 350.00 550.00 350.00 200.00	6,050 3,850 7,700 1,750 1,200 Assume ETR	28,800 - - 4,705	\$28,8



CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	COST
Kitchen	n Renovation						
-	oo BUUMBING						
2	22 - PLUMBING						
	220000 PLUMBING						
	Plumbing Fixtures						
	Connect to new kitchen equipment	25	ea	800.00	20,000		
	Replace Gas Shutoff / Ansul System	1	ea		BY OWNER		
	Floor drains	4	ea	1,200.00	4,800		
	Domestic Water Piping	0=		050.00	6.050		
	Extend or repair fixture rough-in piping	25	ea	250.00	6,250		
	<u>Pipe Insulation</u> Pipe insulation or replace, as required				. 0==		
	Sanitary Waste And Vent Pipe	25	ea	75.00	1,875		
	New sanitary underground pipe	80	lf	130.00	10,400		
	Extend fixture rough-in piping at fixtures	30	ea	300.00	9,000		
	Grease tank and pump (50 gmp), recessed	1	ls	15,000.00	15,000		
	Connect to exiting sanitary system, underground	1	loc	800.00	800		
	Clean existing sanity pipe allowance	1	ls	4,500.00	4,500		
	Miscellaneous						
	Coordination & management	1	ls	10,000.00	10,000		
	Coring, sleeves & fire stopping	1	ls	1,500.00	1,500		
	Testing and sterilization	1	ls	600.00	600		
	Fees & permits	1	ls	1,050.00	1,050		
	SUBTOTAL					85,775	
_							
17	TOTAL - PLUMBING						\$8
1	TOTAL - PLUMBING						\$8
							\$8
	TOTAL - PLUMBING 23 HVAC						\$8;
	23 HVAC 230000 HVAC, GENERALLY						\$8 ,
	23 HVAC 230000 HVAC, GENERALLY Equipment						\$8,
	23 HVAC 230000 HVAC, GENERALLY	1	ea	7,500.00	7,500		\$8.
	23 HVAC 230000 HVAC, GENERALLY	1	ea	4,500.00	4,500		\$8 .
	23 HVAC 230000 HVAC, GENERALLY Equipment VRF Heat Pump VRF Branch Controller VRF 4-Way Cassette w/ Grill	1 2	ea ea	4,500.00 2,800.00	4,500 5,600		\$8
	23 HVAC 230000 HVAC, GENERALLY Equipment VRF Heat Pump VRF Branch Controller VRF 4-Way Cassette w/ Grill Kitchen Exhaust Fan KEF-1	1 2 1	ea ea ea	4,500.00 2,800.00 6,500.00	4,500 5,600 6,500		\$8 ,
	23 HVAC 230000 HVAC, GENERALLY Equipment VRF Heat Pump VRF Branch Controller VRF 4-Way Cassette w/ Grill Kitchen Exhaust Fan KEF-1 Kitchen Makeup Air Fan, MAU-1	1 2	ea ea	4,500.00 2,800.00	4,500 5,600		<u>\$8</u>
	23 HVAC 230000 HVAC, GENERALLY Equipment VRF Heat Pump VRF Branch Controller VRF 4-Way Cassette w/ Grill Kitchen Exhaust Fan KEF-1	1 2 1 1	ea ea ea	4,500.00 2,800.00 6,500.00 6,500.00	4,500 5,600 6,500 6,500		\$8 .
	23 HVAC 230000 HVAC, GENERALLY Equipment VRF Heat Pump VRF Branch Controller VRF 4-Way Cassette w/ Grill Kitchen Exhaust Fan KEF-1 Kitchen Makeup Air Fan, MAU-1 Sheet metal & Accessories	1 2 1	ea ea ea	4,500.00 2,800.00 6,500.00	4,500 5,600 6,500		\$8.
	23 HVAC 230000 HVAC, GENERALLY Equipment VRF Heat Pump VRF Branch Controller VRF 4-Way Cassette w/ Grill Kitchen Exhaust Fan KEF-1 Kitchen Makeup Air Fan, MAU-1 Sheet metal & Accessories Grease Duct, Welded	1 2 1 1	ea ea ea ea	4,500.00 2,800.00 6,500.00 6,500.00	4,500 5,600 6,500 6,500		\$8;
	23 HVAC 230000 HVAC, GENERALLY Equipment VRF Heat Pump VRF Branch Controller VRF 4-Way Cassette w/ Grill Kitchen Exhaust Fan KEF-1 Kitchen Makeup Air Fan, MAU-1 Sheet metal & Accessories Grease Duct, Welded Insulation, Fyre Wrap	1 2 1 1	ea ea ea ea	4,500.00 2,800.00 6,500.00 6,500.00	4,500 5,600 6,500 6,500		\$8;
	23 HVAC 230000 HVAC, GENERALLY Equipment VRF Heat Pump VRF Branch Controller VRF 4-Way Cassette w/ Grill Kitchen Exhaust Fan KEF-1 Kitchen Makeup Air Fan, MAU-1 Sheet metal & Accessories Grease Duct, Welded Insulation, Fyre Wrap HVAC Piping	1 2 1 1	ea ea ea ea	4,500.00 2,800.00 6,500.00 6,500.00	4,500 5,600 6,500 6,500		\$8;
	23 HVAC 230000 HVAC, GENERALLY Equipment VRF Heat Pump VRF Branch Controller VRF 4-Way Cassette w/ Grill Kitchen Exhaust Fan KEF-1 Kitchen Makeup Air Fan, MAU-1 Sheet metal & Accessories Grease Duct, Welded Insulation, Fyre Wrap HVAC Piping Refrigerant Piping	1 2 1 1 80 80	ea ea ea ea If	4,500.00 2,800.00 6,500.00 6,500.00 30.00 8.00	4,500 5,600 6,500 6,500 2,400 640		\$89
	23 HVAC 230000 HVAC, GENERALLY Equipment VRF Heat Pump VRF Branch Controller VRF 4-Way Cassette w/ Grill Kitchen Exhaust Fan KEF-1 Kitchen Makeup Air Fan, MAU-1 Sheet metal & Accessories Grease Duct, Welded Insulation, Fyre Wrap HVAC Piping Refrigerant Piping Refrigerant Piping with inline components	1 2 1 1 80 80	ea ea ea ea If	4,500.00 2,800.00 6,500.00 6,500.00 30.00 8.00	4,500 5,600 6,500 6,500 2,400 640		\$8;
	23 HVAC 230000 HVAC, GENERALLY Equipment VRF Heat Pump VRF Branch Controller VRF 4-Way Cassette w/ Grill Kitchen Exhaust Fan KEF-1 Kitchen Makeup Air Fan, MAU-1 Sheet metal & Accessories Grease Duct, Welded Insulation, Fyre Wrap HVAC Piping Refrigerant Piping Refrigerant Piping Refrigerant Piping with inline components Condensate Drain Piping	1 2 1 1 80 80	ea ea ea lf lf	4,500.00 2,800.00 6,500.00 6,500.00 30.00 8.00	4,500 5,600 6,500 6,500 2,400 640		\$8;
	23 HVAC 230000 HVAC, GENERALLY Equipment VRF Heat Pump VRF Branch Controller VRF 4-Way Cassette w/ Grill Kitchen Exhaust Fan KEF-1 Kitchen Makeup Air Fan, MAU-1 Sheet metal & Accessories Grease Duct, Welded Insulation, Fyre Wrap HVAC Piping Refrigerant Piping Refrigerant Piping with inline components Condensate Drain Piping Copper pipe type L with fittings & hangers	1 2 1 1 80 80	ea ea ea lf lf	4,500.00 2,800.00 6,500.00 6,500.00 30.00 8.00	4,500 5,600 6,500 6,500 2,400 640		\$8;
	23 HVAC 230000 HVAC, GENERALLY Equipment VRF Heat Pump VRF Branch Controller VRF 4-Way Cassette w/ Grill Kitchen Exhaust Fan KEF-1 Kitchen Makeup Air Fan, MAU-1 Sheet metal & Accessories Grease Duct, Welded Insulation, Fyre Wrap HVAC Piping Refrigerant Piping Refrigerant Piping Refrigerant Piping with inline components Condensate Drain Piping Copper pipe type L with fittings & hangers Piping Insulation Piping insulation, Refrigerant Temperature Controls (DDC)	1 2 1 1 80 80 80	ea ea ea lf lf ea ea	4,500.00 2,800.00 6,500.00 6,500.00 30.00 8.00 35.00	4,500 5,600 6,500 6,500 2,400 640 8,400		\$86
	23 HVAC 230000 HVAC, GENERALLY Equipment VRF Heat Pump VRF Branch Controller VRF 4-Way Cassette w/ Grill Kitchen Exhaust Fan KEF-1 Kitchen Makeup Air Fan, MAU-1 Sheet metal & Accessories Grease Duct, Welded Insulation, Fyre Wrap HVAC Piping Refrigerant Piping Refrigerant Piping with inline components Condensate Drain Piping Copper pipe type L with fittings & hangers Piping Insulation Piping insulation, Refrigerant Temperature Controls (DDC) Provide and connect new VRF controls to BMS	1 2 1 1 80 80 80	ea ea ea lf lf ea	4,500.00 2,800.00 6,500.00 6,500.00 30.00 8.00 35.00	4,500 5,600 6,500 6,500 2,400 640 8,400		\$86
	23 HVAC 230000 HVAC, GENERALLY Equipment VRF Heat Pump VRF Branch Controller VRF 4-Way Cassette w/ Grill Kitchen Exhaust Fan KEF-1 Kitchen Makeup Air Fan, MAU-1 Sheet metal & Accessories Grease Duct, Welded Insulation, Fyre Wrap HVAC Piping Refrigerant Piping Refrigerant Piping with inline components Condensate Drain Piping Copper pipe type L with fittings & hangers Piping Insulation Piping insulation, Refrigerant Temperature Controls (DDC) Provide and connect new VRF controls to BMS Balancing	1 2 1 1 80 80 240	ea ea ea lf lf ea ea	4,500.00 2,800.00 6,500.00 6,500.00 30.00 8.00 35.00 700.00	4,500 5,600 6,500 6,500 2,400 640 8,400 1,400 3,120 4,235		\$89
	23 HVAC 230000 HVAC, GENERALLY Equipment VRF Heat Pump VRF Branch Controller VRF 4-Way Cassette w/ Grill Kitchen Exhaust Fan KEF-1 Kitchen Makeup Air Fan, MAU-1 Sheet metal & Accessories Grease Duct, Welded Insulation, Fyre Wrap HVAC Piping Refrigerant Piping Refrigerant Piping with inline components Condensate Drain Piping Copper pipe type L with fittings & hangers Piping Insulation Piping insulation, Refrigerant Temperature Controls (DDC) Provide and connect new VRF controls to BMS Balancing System testing & balancing	1 2 1 1 80 80 240	ea ea ea lf lf ea ea	4,500.00 2,800.00 6,500.00 6,500.00 30.00 8.00 35.00 700.00	4,500 5,600 6,500 6,500 2,400 640 8,400 1,400		\$8;
	23 HVAC 230000 HVAC, GENERALLY Equipment VRF Heat Pump VRF Branch Controller VRF 4-Way Cassette w/ Grill Kitchen Exhaust Fan KEF-1 Kitchen Makeup Air Fan, MAU-1 Sheet metal & Accessories Grease Duct, Welded Insulation, Fyre Wrap HVAC Piping Refrigerant Piping Refrigerant Piping with inline components Condensate Drain Piping Copper pipe type L with fittings & hangers Piping Insulation Piping insulation, Refrigerant Temperature Controls (DDC) Provide and connect new VRF controls to BMS Balancing System testing & balancing Miscellaneous	1 2 1 1 80 80 80 240 2 240 941	ea ea ea ea lf lf sf sf	4,500.00 2,800.00 6,500.00 6,500.00 30.00 8.00 700.00 13.00 4.50 3.00	4,500 5,600 6,500 6,500 2,400 640 8,400 1,400 3,120 4,235 2,823		\$8;
	23 HVAC 230000 HVAC, GENERALLY Equipment VRF Heat Pump VRF Branch Controller VRF 4-Way Cassette w/ Grill Kitchen Exhaust Fan KEF-1 Kitchen Makeup Air Fan, MAU-1 Sheet metal & Accessories Grease Duct, Welded Insulation, Fyre Wrap HVAC Piping Refrigerant Piping Refrigerant Piping Refrigerant Piping with inline components Condensate Drain Piping Copper pipe type L with fittings & hangers Piping Insulation Piping insulation, Refrigerant Temperature Controls (DDC) Provide and connect new VRF controls to BMS Balancing System testing & balancing Miscellaneous Coordination & management	1 2 1 1 80 80 80 240 2 240 941 941	ea ea ea ea lf lf sf sf ls	4,500.00 2,800.00 6,500.00 6,500.00 30.00 8.00 700.00 13.00 4.50 3.00 8,000.00	4,500 5,600 6,500 6,500 2,400 640 8,400 1,400 3,120 4,235 2,823 8,000		\$85
	23 HVAC 230000 HVAC, GENERALLY Equipment VRF Heat Pump VRF Branch Controller VRF 4-Way Cassette w/ Grill Kitchen Exhaust Fan KEF-1 Kitchen Makeup Air Fan, MAU-1 Sheet metal & Accessories Grease Duct, Welded Insulation, Fyre Wrap HVAC Piping Refrigerant Piping Refrigerant Piping Refrigerant Piping with inline components Condensate Drain Piping Copper pipe type L with fittings & hangers Piping Insulation Piping insulation, Refrigerant Temperature Controls (DDC) Provide and connect new VRF controls to BMS Balancing System testing & balancing Miscellaneous Coordination & management Coring, sleeves & fire stopping	1 2 1 1 80 80 80 240 2 240 941 941	ea ea ea ea lf lf sf sf ls ls	4,500.00 2,800.00 6,500.00 6,500.00 30.00 8.00 35.00 700.00 4.50 3.00 8,000.00 1,000.00	4,500 5,600 6,500 6,500 2,400 640 8,400 1,400 3,120 4,235 2,823 8,000 1,000		\$8;
	23 HVAC 230000 HVAC, GENERALLY Equipment VRF Heat Pump VRF Branch Controller VRF 4-Way Cassette w/ Grill Kitchen Exhaust Fan KEF-1 Kitchen Makeup Air Fan, MAU-1 Sheet metal & Accessories Grease Duct, Welded Insulation, Fyre Wrap HVAC Piping Refrigerant Piping Refrigerant Piping with inline components Condensate Drain Piping Copper pipe type L with fittings & hangers Piping Insulation Piping insulation Piping insulation Piping insulation Piping and connect new VRF controls to BMS Balancing System testing & balancing Miscellaneous Coordination & management Coring, sleeves & fire stopping Testing and sterilization	1 2 1 1 80 80 80 240 2 240 941 941 1 1	ea ea ea ea lf lf sf sf ls ls ls	4,500.00 2,800.00 6,500.00 6,500.00 30.00 8.00 35.00 700.00 4.50 3.00 8,000.00 1,000.00 600.00	4,500 5,600 6,500 6,500 2,400 640 8,400 1,400 4,235 2,823 8,000 1,000 600		\$8.
	23 HVAC 230000 HVAC, GENERALLY Equipment VRF Heat Pump VRF Branch Controller VRF 4-Way Cassette w/ Grill Kitchen Exhaust Fan KEF-1 Kitchen Makeup Air Fan, MAU-1 Sheet metal & Accessories Grease Duct, Welded Insulation, Fyre Wrap HVAC Piping Refrigerant Piping Refrigerant Piping Refrigerant Piping with inline components Condensate Drain Piping Copper pipe type L with fittings & hangers Piping Insulation Piping insulation, Refrigerant Temperature Controls (DDC) Provide and connect new VRF controls to BMS Balancing System testing & balancing Miscellaneous Coordination & management Coring, sleeves & fire stopping	1 2 1 1 80 80 80 240 2 240 941 941	ea ea ea ea lf lf sf sf ls ls	4,500.00 2,800.00 6,500.00 6,500.00 30.00 8.00 35.00 700.00 4.50 3.00 8,000.00 1,000.00	4,500 5,600 6,500 6,500 2,400 640 8,400 1,400 3,120 4,235 2,823 8,000 1,000	64,018	\$8



Power: Modify and make connections at existing gear and distribution Equipment Wiring: MAU feed and connections VRF/Heat pump feed and connections VRF/Cassette feed and connections DDC feed and connections Kitchen equipment Wiring: Exhaust fan feed and connection Combi oven (Gas) Dishwasher feed and connection 20A feed and connections Lighting: New Kitchen lighting, installation and circuitry Lighting controls Branch devices and circuitry not depicted	1 1 1 2 1 1 2 7 941 941	ls ea ea ea ea ea ea	5,000.00 4,500.00 4,500.00 1,200.00 1,500.00 1,000.00 2,500.00 1,000.00	5,000 4,500 4,500 2,400 500 1,500 1,000 5,000 7,000	TOTAL	\$64,01
Power: Modify and make connections at existing gear and distribution Equipment Wiring: MAU feed and connections VRF/Heat pump feed and connections VRF/Cassette feed and connections DDC feed and connections Kitchen equipment Wiring: Exhaust fan feed and connection Combi oven (Gas) Dishwasher feed and connection 20A feed and connections Lighting: New Kitchen lighting, installation and circuitry Lighting controls	1 1 2 1 1 1 2 7	ea ea ea ea ea ea	4,500.00 4,500.00 1,200.00 500.00 1,500.00 1,000.00 2,500.00	4,500 4,500 2,400 500 1,500 1,000 5,000		\$64,01
Power: Modify and make connections at existing gear and distribution Equipment Wiring: MAU feed and connections VRF/Heat pump feed and connections VRF/Cassette feed and connections DDC feed and connections Kitchen equipment Wiring: Exhaust fan feed and connection Combi oven (Gas) Dishwasher feed and connection 20A feed and connections Lighting: New Kitchen lighting, installation and circuitry Lighting controls	1 1 2 1 1 1 2 7	ea ea ea ea ea ea	4,500.00 4,500.00 1,200.00 500.00 1,500.00 1,000.00 2,500.00	4,500 4,500 2,400 500 1,500 1,000 5,000		
Power: Modify and make connections at existing gear and distribution Equipment Wiring: MAU feed and connections VRF/Heat pump feed and connections VRF/Cassette feed and connections DDC feed and connections Kitchen equipment Wiring: Exhaust fan feed and connection Combi oven (Gas) Dishwasher feed and connection 20A feed and connections Lighting: New Kitchen lighting, installation and circuitry Lighting controls	1 1 2 1 1 1 2 7	ea ea ea ea ea ea	4,500.00 4,500.00 1,200.00 500.00 1,500.00 1,000.00 2,500.00	4,500 4,500 2,400 500 1,500 1,000 5,000		
Modify and make connections at existing gear and distribution Equipment Wiring: MAU feed and connections VRF/Heat pump feed and connections VRF/Cassette feed and connections DDC feed and connections Kitchen equipment Wiring: Exhaust fan feed and connection Combi oven (Gas) Dishwasher feed and connection 20A feed and connections Lighting: New Kitchen lighting, installation and circuitry Lighting controls	1 1 2 1 1 1 2 7	ea ea ea ea ea ea	4,500.00 4,500.00 1,200.00 500.00 1,500.00 1,000.00 2,500.00	4,500 4,500 2,400 500 1,500 1,000 5,000		
Modify and make connections at existing gear and distribution Equipment Wiring: MAU feed and connections VRF/Heat pump feed and connections VRF/Cassette feed and connections DDC feed and connections Kitchen equipment Wiring: Exhaust fan feed and connection Combi oven (Gas) Dishwasher feed and connection 20A feed and connections Lighting: New Kitchen lighting, installation and circuitry Lighting controls	1 1 2 1 1 1 2 7	ea ea ea ea ea ea	4,500.00 4,500.00 1,200.00 500.00 1,500.00 1,000.00 2,500.00	4,500 4,500 2,400 500 1,500 1,000 5,000		
MAU feed and connections VRF/Heat pump feed and connections VRF/Cassette feed and connections DDC feed and connections Kitchen equipment Wiring: Exhaust fan feed and connection Combi oven (Gas) Dishwasher feed and connection 20A feed and connections Lighting: New Kitchen lighting, installation and circuitry Lighting controls	1 2 1 1 1 2 7	ea ea ea ea ea	4,500.00 1,200.00 500.00 1,500.00 1,000.00 2,500.00	4,500 2,400 500 1,500 1,000 5,000		
MAU feed and connections VRF/Heat pump feed and connections VRF/Cassette feed and connections DDC feed and connections Kitchen equipment Wiring: Exhaust fan feed and connection Combi oven (Gas) Dishwasher feed and connection 20A feed and connections Lighting: New Kitchen lighting, installation and circuitry Lighting controls	1 2 1 1 1 2 7	ea ea ea ea ea	4,500.00 1,200.00 500.00 1,500.00 1,000.00 2,500.00	4,500 2,400 500 1,500 1,000 5,000		
VRF/Cassette feed and connections DDC feed and connections Kitchen equipment Wiring: Exhaust fan feed and connection Combi oven (Gas) Dishwasher feed and connection 20A feed and connections Lighting: New Kitchen lighting, installation and circuitry Lighting controls	1 2 1 1 1 2 7	ea ea ea ea ea	4,500.00 1,200.00 500.00 1,500.00 1,000.00 2,500.00	4,500 2,400 500 1,500 1,000 5,000		
DDC feed and connections Kitchen equipment Wiring: Exhaust fan feed and connection Combi oven (Gas) Dishwasher feed and connection 20A feed and connections Lighting: New Kitchen lighting, installation and circuitry Lighting controls	1 1 2 7 941 941	ea ea ea ea	1,200.00 500.00 1,500.00 1,000.00 2,500.00	2,400 500 1,500 1,000 5,000		
Kitchen equipment Wiring: Exhaust fan feed and connection Combi oven (Gas) Dishwasher feed and connection 20A feed and connections Lighting: New Kitchen lighting, installation and circuitry Lighting controls	1 1 2 7 941 941	ea ea ea	1,500.00 1,000.00 2,500.00	1,500 1,000 5,000		
Exhaust fan feed and connection Combi oven (Gas) Dishwasher feed and connection 20A feed and connections Lighting: New Kitchen lighting, installation and circuitry Lighting controls	1 2 7 941 941	ea ea ea	1,000.00 2,500.00	1,000 5,000		
Exhaust fan feed and connection Combi oven (Gas) Dishwasher feed and connection 20A feed and connections Lighting: New Kitchen lighting, installation and circuitry Lighting controls	1 2 7 941 941	ea ea ea	1,000.00 2,500.00	1,000 5,000		
Combi oven (Gas) Dishwasher feed and connection 20A feed and connections Lighting: New Kitchen lighting, installation and circuitry Lighting controls	1 2 7 941 941	ea ea ea	1,000.00 2,500.00	1,000 5,000		
Dishwasher feed and connection 20A feed and connections Lighting: New Kitchen lighting, installation and circuitry Lighting controls	2 7 941 941	ea ea	2,500.00	5,000		
20A feed and connections Lighting: New Kitchen lighting, installation and circuitry Lighting controls	7 941 941	ea				
Lighting: New Kitchen lighting, installation and circuitry Lighting controls	941 941		1,000.00	7,000		
New Kitchen lighting, installation and circuitry Lighting controls	941	ef				
New Kitchen lighting, installation and circuitry Lighting controls	941	ef				
Lighting controls	941		12.00	11,292		
		sf	2.00	1,882		
• •	941	sf	8.00	7,528		
Fire Alarm:						
Allow for modifications to existing FACP and testing	1	ls	2,500.00	2,500		
Devices, modules and cabling	1	ls	2,500.00	2,500		
Telecommunications (assumes ETR)			F	TR		
Security system (assumes ETR)			F	TR		
Miscellaneous:						
Demo and make safe	1	ls	3,500.00	3,500		
Fees and permits	1	ls	800.00	800		
SUBTOTAL					61,402	
ELECTRICAL						\$61,4
RTHWORK						
0000 EARTHWORK						
Allowance to remove and reinstall soils for new grease trap	1	ls	4,000.00	4,000		
Allowance for E&B at new sanitary	60	lf	50.00	3,000		
Allowance for misc. disposal, dewatering, bedding and fill materials	1	ls	5,000.00	5,000		
SUBTOTAL					12,000	
EARTHWORK						12,00
)	Security system (assumes ETR) Miscellaneous: Demo and make safe Fees and permits SUBTOTAL ELECTRICAL RTHWORK OOO EARTHWORK Allowance to remove and reinstall soils for new grease trap Allowance for E&B at new sanitary Allowance for misc. disposal, dewatering, bedding and fill materials SUBTOTAL	Security system (assumes ETR) Miscellaneous: Demo and make safe 1 Fees and permits 1 SUBTOTAL ELECTRICAL RTHWORK Allowance to remove and reinstall soils for new grease trap 1 Allowance for E&B at new sanitary 60 Allowance for misc. disposal, dewatering, bedding and fill 1 materials SUBTOTAL	Security system (assumes ETR) Miscellaneous: Demo and make safe 1 ls Fees and permits 1 ls SUBTOTAL ELECTRICAL RTHWORK Allowance to remove and reinstall soils for new grease trap Allowance for E&B at new sanitary Allowance for misc. disposal, dewatering, bedding and fill materials SUBTOTAL	Security system (assumes ETR) Miscellaneous: Demo and make safe 1 ls 3,500.00 Fees and permits 1 ls 800.00 SUBTOTAL ELECTRICAL RTHWORK Allowance to remove and reinstall soils for new grease trap Allowance for E&B at new sanitary Allowance for misc. disposal, dewatering, bedding and fill SUBTOTAL	Miscellaneous: Demo and make safe	Miscellaneous: Demo and make safe



APPENDIX C.2 COST ESTIMATE - DECEMBER 9, 2022



Schematic Design Estimate

Needham Center at the Heights Space Utilization Study #3480

Needham, MA

PM&C LLC 20 Downer Ave, Suite 5 Hingham, MA 02043 (T) 781-740-8007 (F) 781-740-1012 Prepared for:

Bargmann Hendrie + Archetype, Inc.

December 9, 2022

COST ESTIMATE - DECEMBER 9, 2022

APPENDIX



Needham Center at the Heights

Space Utilization Study #3480 Needham, MA

9-Dec-22

Schematic Design Estimate

Estimated Construction Cost

PROJECT AREA TOTALS - includes mark-ups

Fitness Room and Game Room

Option 1	\$165,344
Option 2	\$380.767

Roof Deck

Option 1	\$1,165,902
Option 2	\$175,873
Option 3	\$169,252
Option 4	\$30,076

Vestibule \$163,163

Lactation and Break Room

Option 1	\$155,314
Option 2	\$84,080

Office Reconfiguration

\$87,282	Option 1
\$215,006	Option 2
\$18,838	Option 3



Needham Center at the Heights

Space Utilization Study #3480 Needham, MA

9-Dec-22

Schematic Design Estimate

This Schematic Design document cost estimate was produced from drawings, narratives and other documentation prepared by Bargmann Hendrie + Archetype, Inc. and their design team dated November 23rd, 2022. Design and engineering changes occurring subsequent to the issue of these documents have not been incorporated in this estimate.

This estimate includes all direct construction costs, general contractors overhead, fee and design contingency. Cost escalation assumes start dates indicated.

Bidding conditions are expected to be public bidding to pre-qualified general contractors, and pre-qualified sub-contractors, open specifications for materials and manufacturers.

The estimate is based on prevailing wage rates for construction in this market and represents a reasonable opinion of cost. It is not a prediction of the successful bid from a contractor as bids will vary due to fluctuating market conditions, errors and omissions, proprietary specifications, lack or surplus of bidders, perception of risk, etc. Consequently the estimate is expected to fall within the range of bids from a number of competitive contractors or subcontractors, however we do not warrant that bids or negotiated prices will not vary from the final construction cost estimate.

ITEMS NOT CONSIDERED IN THIS ESTIMATE

Items not included in this estimate are:

Land acquisition, feasibility, and financing costs All professional fees and insurance

Site or existing conditions surveys investigations costs, including to determine subsoil conditions

All Furnishings, Fixtures and Equipment

Items identified in the design as Not In Contract (NIC)

Items identified in the design as by others

Owner supplied and/or installed items as indicated in the estimate

Utility company back charges, including work required off-site

Work to City streets and sidewalks, (except as noted in this estimate)

Construction contingency

Contaminated soils removal



9-Dec-22

		NT -	OPTION	V o
	OPTIO	N 1 Total	OPTIO l Subtotal	V 2 Total
ITNESS ROOM AND GAME ROOM				
DIV. 2 EXISTING CONDITIONS		\$13,710		\$29,615
024100 Demolition	\$13,710	φ13,/10	\$29,615	φ29,013
013280 Haz-Mat Abatement	\$0		\$0	
orgado rad natributoment	Ψ		ΨΟ	
DIV. 3 CONCRETE		\$5,615		\$7,916
033000 Cast In Place Concrete	\$5,615		\$7,916	
DIV. 4 MASONRY		\$0		\$ 0
044000 Masonry	\$ 0		\$o	
DIV. 5 METALS		¢a =00		¢0.500
050001 Metal Fabrications	\$2,500	\$2,500	\$2,500	\$2,500
051200 Structural Steel Framing	\$0		ψ <u>2,</u> 300 \$0	
053100 Steel Decking	\$o		\$o	
DIV. 6 WOODS, PLASTICS & COMPOSITES o61000 Rough Carpentry	\$1,500	\$1,500	\$2,500	\$2,500
o64000 Architectural Woodwork	\$1,500 \$0		\$2,500 \$0	
•				
DIV. 7 THERMAL & MOISTURE PROTECTION	φ	\$500	.	\$1,250
070001 Waterproofing/Dampproofing/Caulking	\$500		\$500	
070002 Roofing & Flashing 072100 Thermal Insulation	\$0 \$0		\$0 \$0	
072400 Exterior Gypsum/Stucco Finishes	\$0 \$0		\$0 \$0	
074210 Metal Wall Panels	\$0 \$0		\$0 \$0	
074690 Siding	\$o		\$750	
077200 Roof Specialties	\$o		φ/30 \$0	
078100 Applied Fireproofing	\$ 0		\$o	
078400 Firestopping	\$ 0		\$o	
079513 Construction & Expansion Joints	\$ 0		\$o	
DIV. 8 DOORS & WINDOWS		\$6,000		\$22,900
084002 Glass & Glazing	\$6,000	, -,	\$7,700	, ,,,
081113 Doors and Frames	\$o		\$8,700	
083100 Access Doors and Panels	\$o		\$o	
083323 Overhead Coiling Doors	\$o		\$6,500	
083400 Specialty Doors	\$o		\$o	
087100 Door Hardware	\$o		\$o	
089000 Louvers and Vents	\$ 0		\$o	
DIV. 9 FINISHES		\$43,875		\$102,673
090000 General Finishes	\$o		\$o	
090002 Tile	\$o		\$11,120	
090003 Acoustical Ceilings	\$1,500		\$21,008	
090005 Resilient Flooring	\$33,825		\$35,640	
090009 Painting	\$5,700		\$8,988	
092900 GWB, Lath and Plastering	\$2,850		\$19,807	
096400 Wood Flooring	\$o		\$o	
096460 Wood Athletic Flooring	\$0 ***		\$0 \$0	
o96766 Fluid Applied Flooring o96800 Carpet	\$0 \$0		\$0	
097200 Wallcoverings/FRP	\$0 \$0		\$6,110 \$0	
098414 Acoustic Panels	\$0 \$0		\$o	
DIV 40 CDECIALTIES		фо		#0= 0 = =
DIV 10 SPECIALTIES 100000 Miscellaneous Specialties	¢o.	\$0	¢o.	\$25,000
100000 Miscenaneous Speciaities 101100 Markerboards	\$0 \$0		\$0 \$0	
101100 Markerdoards 101200 Display Cases	\$0 \$0		\$0 \$10,000	
101200 Display Cases 101400 Signage	\$0 \$0		\$10,000 \$0	
102113 Toilet Compartments	\$0 \$0		\$0 \$0	
10=11.0 Tonet compartments	ΨΟ		ΨΟ	



Needham Center at the Heights Space Utilization Study #3480 Needham, MA Schematic Design Estimate

9-Dec-22

110000 Miscellaneous Equipment	FORMAT OPTI	ION 2
102228 Operable Partition \$0 102813 Toilet Accessories \$0 102803 Toilet Accessories \$0 103000 Gas Fireplaces \$0 10400 Safety Specialties \$0 105113 Metal Lockers \$0 105113 Metal Lockers \$0 105113 Metal Lockers \$0 117000 Miscellaneous Equipment \$0 117000 Miscellaneous Equipment \$0 117000 Appliances \$0 1170000 Appliances \$0 11700000 Appliances \$0 117000000 Appliances \$0 117000000 Appliances \$0 117000000 Appliances \$0 117000000 Appliances \$0	Subtotal	Total
103813 Tollet Accessories \$0 103000 Gas Fireplaces \$0 10400 Safety Specialties \$0 104101 Metal Lockers \$0 105113 Metal Lockers \$0 10113 Metal Lockers \$0 10114 EQUIPMENT 110000 Miscellaneous Equipment \$0 113100 Appliances \$0 113100 Appliances \$0 113101 Appliances \$0 113201 Appliances \$0 114001 Foodservice Equipment \$0 11521 Appliances \$0 11522 Appliances \$0 112401 Mindow Shades \$0 112402 Window Shades \$0 122400 Window Shades \$0 122400 Window Shades \$0 123000 Greenhouses \$0 130000 Trellis \$0 130000 Elevators \$0 DIV. 21 FIRE SUPPRESSION 210000 Fire Suppression \$0 DIV. 22 PLUMBING \$0 220000 Plumbing \$0 DIV. 23 HVAC \$18,700 DIV. 23 HVAC \$18,700 DIV. 24 EARTHWORK \$0 DIV. 31 EARTHWORK \$0 DIV. 32 EXTERIOR IMPROVEMENTS \$0 ESCALATION \$0,60 ESCALATI		
103000 Gas Fireplaces \$0 104400 Safety Specialties \$0 104400 Safety Specialties \$0 105113 Metal Lockers \$0 DIV. 11 EQUIPMENT 110000 Miscellaneous Equipment \$0 113100 Appliances \$0 114000 Foodservice Equipment \$0 115213 Projection Screens \$0 124813 Entrance Floor Mats and Frames \$0 DIV. 12 FURNISHINGS \$0 124813 Entrance Floor Mats and Frames \$0 DIV. 13 SPECIAL CONSTRUCTION \$0 130000 Greenhouses \$0 130000 Shade Sail \$0 130000 Shade Sail \$0 DIV. 14 CONVEYING SYSTEMS 140000 Elevators \$0 DIV. 21 FIRE SUPPRESSION \$0 DIV. 22 PLUMBING \$0 220000 Plumbing \$0 DIV. 23 HVAC \$18,700 DIV. 24 ELECTRICAL \$12,050 DIV. 25 ELECTRICAL \$12,050 DIV. 31 EARTHWORK \$0 DIV. 32 EXTERIOR IMPROVEMENTS \$0 DIV. 32 EXTERIOR IMPROVEMENTS \$0 SUBTOTAL DIRECT (TRADE) COST \$104,40 ESCALATION \$6, \$6, \$6, \$6, \$6, \$6, \$6, \$6, \$6, \$6,	\$o	
104400 Safety Specialties \$0	\$o	
105113 Metal Lockers	\$15,000	
DIV. 11 EQUIPMENT	\$ 0	
110000 Miscellaneous Equipment	\$o	
113100 Appliances	\$0	\$
11-000 Foodservice Equipment \$0 115213 Projection Screens \$0 115213 Projection Screens \$0 116623 Athletic Equipment \$0 \$0 116623 Athletic Equipment \$0 \$0 116623 Athletic Equipment \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$o	
115213 Projection Screens \$0 116623 Athletic Equipment \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$o	
116623 Athletic Equipment	\$o	
DIV. 12 FURNISHINGS 120000 Miscellaneous Furnishings \$0 122400 Window Shades \$0 124813 Entrance Floor Mats and Frames \$0 124813 Entrance Floor Mats and Frames \$0 130000 Greenhouses \$0 130000 Greenhouses \$0 130000 Greenhouses \$0 130000 Shade Sail \$0 130000 Shade Sail \$0 100000 Elevators \$0 1000000 Elevators \$0 10000000 Elevators \$0 10000000000 Elevators \$0 10000000000000000000000000000000	\$o	
120000 Miscellaneous Furnishings \$0 122400 Window Shades \$0 124813 Entrance Floor Mats and Frames \$0 125000 Greenhouses \$0 125000 Shade Sail \$0 125000 Elevators \$0 125000 Fire Suppression \$0 125000 Fire Suppression \$0 125000 Fire Suppression \$0 125000 Fire Suppression \$0 1250000 Fire Su	\$o	
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124813 Entrance Floor Mats and Frames	\$o	
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130000 Trellis \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$ 0	
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140000 Elevators	\$ 0	
140000 Elevators	\$0	S
210000 Fire Suppression	\$o	4
210000 Fire Suppression	Φ-	φ
DIV.22 PLUMBING \$0 220000 Plumbing \$0 DIV. 23 HVAC \$18,70 230000 HVAC \$18,700 DIV. 26 ELECTRICAL \$12,050 260000 Electrical \$12,050 DIV. 31 EARTHWORK \$0 310000 Earthwork \$0 DIV. 32 EXTERIOR IMPROVEMENTS \$0 323100 Site Improvements \$0 SUBTOTAL DIRECT (TRADE) COST \$104,4 ESCALATION 6.0% \$6, DESIGN AND PRICING CONTINGENCY 10.0% \$10, SUB-TOTAL \$12,5% \$15, GENERAL CONDITIONS 12.5% \$15, GENERAL REQUIREMENTS 3.5% \$4, PHASING PREMIUM 5.0% \$6, BONDS 0.75% \$6, INSURANCE 1.40% \$1,	\$0	\$3,50
220000 Plumbing	\$3,500	
DIV. 23 HVAC \$18,700 230000 HVAC \$18,700 DIV. 26 ELECTRICAL \$12,050 260000 Electrical \$12,050 DIV. 31 EARTHWORK \$0 310000 Earthwork \$0 DIV. 32 EXTERIOR IMPROVEMENTS \$0 323100 Site Improvements \$0 SUBTOTAL DIRECT (TRADE) COST \$104,4 ESCALATION 6.0% \$6, DESIGN AND PRICING CONTINGENCY 10.0% \$10, SUB-TOTAL \$12,5% \$15, GENERAL CONDITIONS 12.5% \$15, GENERAL REQUIREMENTS 3.5% \$4, PHASING PREMIUM 5.0% \$6, BONDS 0.75% \$6, INSURANCE 1.40% \$1,	\$0	\$2,50
230000 HVAC \$18,700 DIV.26 ELECTRICAL \$12,00 260000 Electrical \$12,050 DIV. 31 EARTHWORK \$0 DIV. 32 EXTERIOR IMPROVEMENTS \$0 SUBTOTAL DIRECT (TRADE) COST \$104,4 ESCALATION 6.0% \$6, DESIGN AND PRICING CONTINGENCY 10.0% \$10, SUB-TOTAL \$12,1,1 GENERAL CONDITIONS 12.5% \$15, GENERAL REQUIREMENTS 3.5% \$4, PHASING PREMIUM 5.0% \$6, BONDS 0.75% \$6, INSURANCE \$14,40%	\$2,500	
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DIV. 31 EARTHWORK 310000 Earthwork \$0 DIV. 32 EXTERIOR IMPROVEMENTS 323100 Site Improvements \$0 SUBTOTAL DIRECT (TRADE) COST \$104,4 ESCALATION 6.0% \$6, DESIGN AND PRICING CONTINGENCY 10.0% \$10, SUB-TOTAL \$121,1 GENERAL CONDITIONS 12.5% \$15, GENERAL REQUIREMENTS 3.5% \$4, PHASING PREMIUM 5.0% \$6, BONDS 0.75% \$6, INSURANCE 1.40% \$1,	_	\$21,48
\$10000 Earthwork	\$21,481	
DIV. 32 EXTERIOR IMPROVEMENTS 323100 Site Improvements \$0 SUBTOTAL DIRECT (TRADE) COST \$104,4 ESCALATION 6.0% \$6, DESIGN AND PRICING CONTINGENCY 10.0% \$10,0 SUB-TOTAL \$121,1 GENERAL CONDITIONS 12.5% \$15, GENERAL REQUIREMENTS 3.5% \$4, PHASING PREMIUM 5.0% \$6, BONDS 0.75% \$9, INSURANCE 1.40% \$1,	\$0	5
323100 Site Improvements \$0 SUBTOTAL DIRECT (TRADE) COST \$104,4 ESCALATION 6.0% \$6, DESIGN AND PRICING CONTINGENCY 10.0% \$10, SUB-TOTAL \$121,1 GENERAL CONDITIONS 12.5% \$15, GENERAL REQUIREMENTS 3.5% \$4, PHASING PREMIUM 5.0% \$6, BONDS 0.75% \$6, INSURANCE 1.40% \$1,	\$o	
\$0 \$0 \$104,4	\$0	5
ESCALATION 6.0% \$6, DESIGN AND PRICING CONTINGENCY 10.0% \$10, SUB-TOTAL \$12.5% \$15, GENERAL CONDITIONS 12.5% \$15, GENERAL REQUIREMENTS 3.5% \$4, PHASING PREMIUM 5.0% \$6, BONDS 0.75% \$6 INSURANCE 1.40% \$1,	\$0	,
ESCALATION 6.0% \$6, DESIGN AND PRICING CONTINGENCY 10.0% \$110, SUB-TOTAL \$12.1,1 GENERAL CONDITIONS 12.5% \$15, GENERAL REQUIREMENTS 3.5% \$4, PHASING PREMIUM 5.0% \$6,0 BONDS 0.75% \$6,0 INSURANCE 1.40% \$1,1	<u> </u>	\$240,53
DESIGN AND PRICING CONTINGENCY 10.0% \$10, SUB-TOTAL \$121,1 GENERAL CONDITIONS 12.5% \$15, GENERAL REQUIREMENTS 3.5% \$4, PHASING PREMIUM 5.0% \$6, BONDS 0.75% \$6 INSURANCE 1.40% \$1,		
DESIGN AND PRICING CONTINGENCY 10.0% \$10, SUB-TOTAL \$12,1,1 GENERAL CONDITIONS 12.5% \$15, GENERAL REQUIREMENTS 3.5% \$4, PHASING PREMIUM 5.0% \$6, BONDS 0.75% \$6 INSURANCE 1.40% \$1,	267	\$14,4
SUB-TOTAL \$121,1 GENERAL CONDITIONS 12.5% \$15, GENERAL REQUIREMENTS 3.5% \$4, PHASING PREMIUM 5.0% \$6, BONDS 0.75% \$9 INSURANCE 1.40% \$1,		
GENERAL CONDITIONS 12.5% \$15, GENERAL REQUIREMENTS 3.5% \$4, PHASING PREMIUM 5.0% \$6, BONDS 0.75% \$9 INSURANCE 1.40% \$1,	 -	\$24,0
GENERAL REQUIREMENTS 3.5% \$4, PHASING PREMIUM 5.0% \$6, BONDS 0.75% \$1 INSURANCE 1.40% \$1,	162	\$279,0
PHASING PREMIUM 5.0% \$6, BONDS 0.75% \$6 INSURANCE 1.40% \$1,		\$34,8
BONDS 0.75% \$9 INSURANCE 1.40% \$1,	,241	\$9,7
INSURANCE 1.40% \$1,	058	\$13,9
INSURANCE 1.40% \$1,	909	\$2,0
	696	\$3,9
	212	\$2,7
OVERHEAD + PROFIT 10.0% \$14,	,921	\$34,3
Ψ14,	•	Ψυτιο



9-Dec-22

CONSTRUCTION COST SUMMARY	IN CSI FOR	MAT	
OPTI	ON 1	OPTIC	ON 2
Subtotal	Total	Subtotal	Total

FITNESS ROOM AND GAME ROOM

TOTAL OF ALL CONSTRUCTION \$165,344 \$380,767

GFA



Needham Center at the Heights Space Utilization Study #3480 Needham, MA Schematic Design Estimate

9-Dec-22

2 280

					0111	2,200
			UNIT	EST'D	SUB	TOTAL
DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
	-					

FITNESS ROOM AND GAME ROOM - OPTION 1 Fitness Room 1,300 Game Room 980 TOTAL GROSS FLOOR AREA (GFA) 2,280 sf 02 - EXISTING CONDITIONS 024000 DEMOLITION **Interior Demolition** Remove/Dispose existing finishes 2,280 sf 10,260 4.50 Score/Trench for electrical/floor boxes sf 1,300 1.50 1,950 13 Protection/Temp partitions to isolate space ls 1,500.00 1,500 SUBTOTAL 13,710 TOTAL - MASONRY \$13,710 18 o3 - CONCRETE 19 033000 CONCRETE 21 22 Interior Construction 23 Floor patching/Prep - Fitness Room 1,300 sf 3.00 3,900 24 Minor floor prep - Game Room sf 980 1.75 1,715 25 SUBTOTAL 5,615 TOTAL - CONCRETE \$5,615 29 30 05 - METALS 31 050001 METAL FABRICATIONS 33 Interior Construction Support for MEP equipment 2,500.00 2,500 35 SUBTOTAL 2,500 TOTAL - METALS \$2,500 38 39 40 06 - WOOD, PLASTICS AND COMPOSITES 41 42 ROUGH CARPENTRY 43 Interior Construction 44 Misc carpentry/Blocking 1,500.00 1,500 46 SUBTOTAL 1,500 48 ARCHITECTURAL WOODWORK 064100 Interior Construction 50 Ceiling/Wall paneling assumed not required Cabinetry/Built-ins assumed not required SUBTOTAL TOTAL - WOOD, PLASTICS AND COMPOSITES \$1,500

07 - THERMAL AND MOISTURE PROTECTION

070002 WATERPROOFING / DAMPPROOFING / CAULKING

Needham CATH SD Estimate 12.09.22 Page 7 PMC - Project Management Cost

57



Needham CATH SD Estimate 12.09.22

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2,280

GFA

	i	DESCRIPTIO	ON .	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	FITNES	S ROOM	AND GAME ROOM - OPTION 1						
60			Interior Construction						
61			Caulking - dissimilar materials	1	ls	500.00	500		
62 63			SUBTOTAL					500	
64	Γ	TOTAL -	THERMAL AND MOISTURE PROTECTION						\$500
65	L								
66 67	г	08 - OPE	NTN/OG						
68	Ľ	08 - OPE	NINGS						
69		084002	GLASS & GLAZING						
70			Interior Construction						
71			Wall mounted mirrors - Fitness	150	sf	40.00	6,000		
72			Glazing sidelights	8	loc	850.00	ETR		
73 74			SUBTOTAL					6,000	
74		081113	DOORS AND FRAMES						
76		3	Interior						
77			Doors/Frames/Hardware						
78			Doors/HM frames - single	1	ea	1,150.00	ETR		
79			Doors/HM frames - double	2	ea	2,000.00	ETR		
80			Premium for glass in doors	3	ea	500.00	ETR		
81			Frames, sidelights	3	loc	900.00	ETR		
82 83			SUBTOTAL					-	
84		083100	ACCESS DOORS AND FRAMES						
85			Interior Doors						
86			Access doors	2	rms	250.00	ETR		
87			SUBTOTAL					-	
88 89		-0	DOOR HARDWARE						
90		087100	DOOR HARDWARE Interior Doors						
91			Hardware to interior doors	5	set	900.00	ETR		
92			SUBTOTAL	ŭ				-	
93 94	г	TOTAL	ODENING						Φζ ===
95	Ŀ	IOIAL -	OPENINGS						\$6,000
96									
97		09 - FINI	SHES						
98	_								
99		090003	ACT						
101			Interior Finishes Open/Close/Patch existing ceilings	1	ls	1,500.00	1,500		
102			SUBTOTAL	-		,,,,,,,,	-,000	1,500	
103								,,,,	
104		090005	RESILIENT FLOORS						
105			Interior Finishes						
106			Resilient flooring - game room Resilient sports sheet flooring - Fitness	980	sf	10.00	9,800		
108			Resilient base	1,300 255	sf lf	17.50 5.00	22,750 1,275		
109			SUBTOTAL	-00	11	5.50	±,≃/∂	33,825	
110								33, 0	
111		090007	PAINTING						
112			Interior Finishes	_	-				
113			Prep/Paint affected areas	2,280	sf	2.50	5,700		
114			SUBTOTAL					5,700	
116		092900	GWB						
117		. ,_,00	Interior Construction						
118			Open/Close/Patch existing walls	2,280	sf	1.25	2,850		

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PMC - Project Management Cost



Needham Center at the Heights Space Utilization Study #3480 Needham, MA Schematic Design Estimate

9-Dec-22

DESCRIPTI	ON	QTY	UNIT	COST	COST	TOTAL	COST
NESS ROOM	AND GAME ROOM - OPTION 1						
	SUBTOTAL					2,850	
097200	WALLCOVERINGS						
09/200	Wall Finishes						
	Vinyl wallcoverings/Graphics			assur	ned not required		
	SUBTOTAL			doodi	nea not required	-	
098413	SOUND ABSORBING PANELS						
	Interior Finishes						
	Acoustic panels		sf	35.00	NR		
	SUBTOTAL					-	
TOTAL -	FINISHES						\$43
to CDE	CIALTIES						
10-SPEC	CIALITES						
101100	VISUAL DISPLAY SURFACES						
	Interior Construction						
	Marker boards/Tackboards/Display cases			assur	ned not required		
	SUBTOTAL					-	
101400	SIGNAGE						
	Interior Construction				_		
	Poom Ciana			assur	ned not required		
	Room Signs						
	Branding/Graphics				ned not required		
TOTAL -							
TOTAL -	Branding/Graphics SUBTOTAL SPECIALTIES						
11 - EQUI	Branding/Graphics SUBTOTAL SPECIALTIES						
	Branding/Graphics SUBTOTAL SPECIALTIES IPMENT APPLIANCES						
11 - EQUI	Branding/Graphics SUBTOTAL SPECIALTIES			assur		- -	
11 - EQUI	Branding/Graphics SUBTOTAL SPECIALTIES IPMENT APPLIANCES Equipment			assur	ned not required	- -	
11 - EQUI	Branding/Graphics SUBTOTAL SPECIALTIES IPMENT APPLIANCES Equipment UC refrigerator - Fitness SUBTOTAL			assur	ned not required	- -	
11 - EQUI	Branding/Graphics SUBTOTAL SPECIALTIES IPMENT APPLIANCES Equipment UC refrigerator - Fitness SUBTOTAL PROJECTION SCREENS			assur	ned not required	- -	
11 - EQUI	Branding/Graphics SUBTOTAL SPECIALTIES IPMENT APPLIANCES Equipment UC refrigerator - Fitness SUBTOTAL			assur	ned not required		
11 - EQUI	Branding/Graphics SUBTOTAL SPECIALTIES IPMENT APPLIANCES Equipment UC refrigerator - Fitness SUBTOTAL PROJECTION SCREENS Equipment			assur	ned not required		
11 - EQUI	Branding/Graphics SUBTOTAL SPECIALTIES IPMENT APPLIANCES Equipment UC refrigerator - Fitness SUBTOTAL PROJECTION SCREENS Equipment TV/Monitors SUBTOTAL			assur	ned not required		
11 - EQUI	Branding/Graphics SUBTOTAL SPECIALTIES IPMENT APPLIANCES Equipment UC refrigerator - Fitness SUBTOTAL PROJECTION SCREENS Equipment TV/Monitors SUBTOTAL ATHLETIC + OTHER EQUIPMENT			assur	ned not required		
11 - EQUI	Branding/Graphics SUBTOTAL SPECIALTIES IPMENT APPLIANCES Equipment UC refrigerator - Fitness SUBTOTAL PROJECTION SCREENS Equipment TV/Monitors SUBTOTAL ATHLETIC + OTHER EQUIPMENT Equipment			assur	ned not required	-	
11 - EQUI	Branding/Graphics SUBTOTAL SPECIALTIES IPMENT APPLIANCES Equipment UC refrigerator - Fitness SUBTOTAL PROJECTION SCREENS Equipment TV/Monitors SUBTOTAL ATHLETIC + OTHER EQUIPMENT			assur	ned not required	-	
11 - EQUI	Branding/Graphics SUBTOTAL SPECIALTIES IPMENT APPLIANCES Equipment UC refrigerator - Fitness SUBTOTAL PROJECTION SCREENS Equipment TV/Monitors SUBTOTAL ATHLETIC + OTHER EQUIPMENT Equipment Athletic/Fitness equipment			assur	ned not required	-	
11-EQUI 113100 115213 116600	Branding/Graphics SUBTOTAL SPECIALTIES IPMENT APPLIANCES Equipment UC refrigerator - Fitness SUBTOTAL PROJECTION SCREENS Equipment TV/Monitors SUBTOTAL ATHLETIC + OTHER EQUIPMENT Equipment Athletic/Fitness equipment			assur	ned not required	-	
11- EQUI 113100 115213 116600	Branding/Graphics SUBTOTAL SPECIALTIES IPMENT APPLIANCES Equipment UC refrigerator - Fitness SUBTOTAL PROJECTION SCREENS Equipment TV/Monitors SUBTOTAL ATHLETIC + OTHER EQUIPMENT Equipment Athletic/Fitness equipment SUBTOTAL EQUIPMENT			assur	ned not required	-	
11- EQUI 113100 115213 116600	Branding/Graphics SUBTOTAL SPECIALTIES IPMENT APPLIANCES Equipment UC refrigerator - Fitness SUBTOTAL PROJECTION SCREENS Equipment TV/Monitors SUBTOTAL ATHLETIC + OTHER EQUIPMENT Equipment Athletic/Fitness equipment SUBTOTAL			assur	ned not required	-	
11- EQUI 113100 115213 116600	Branding/Graphics SUBTOTAL SPECIALTIES IPMENT APPLIANCES Equipment UC refrigerator - Fitness SUBTOTAL PROJECTION SCREENS Equipment TV/Monitors SUBTOTAL ATHLETIC + OTHER EQUIPMENT Equipment Athletic/Fitness equipment SUBTOTAL EQUIPMENT			assur	ned not required	-	
11 - EQUI 113100 115213 116600 TOTAL -	Branding/Graphics SUBTOTAL SPECIALTIES IPMENT APPLIANCES Equipment UC refrigerator - Fitness SUBTOTAL PROJECTION SCREENS Equipment TV/Monitors SUBTOTAL ATHLETIC + OTHER EQUIPMENT Equipment SUBTOTAL EQUIPMENT NISHINGS WINDOW TREATMENT Furnishings			assur	ned not required By Owner By Owner		
11 - EQUI 113100 115213 116600 TOTAL -	Branding/Graphics SUBTOTAL SPECIALTIES IPMENT APPLIANCES Equipment UC refrigerator - Fitness SUBTOTAL PROJECTION SCREENS Equipment TV/Monitors SUBTOTAL ATHLETIC + OTHER EQUIPMENT Equipment Athletic/Fitness equipment SUBTOTAL EQUIPMENT NISHINGS WINDOW TREATMENT Furnishings Window blinds - protect existing to remain		sf	assur	ned not required		
11 - EQUI 113100 115213 116600 TOTAL -	Branding/Graphics SUBTOTAL SPECIALTIES IPMENT APPLIANCES Equipment UC refrigerator - Fitness SUBTOTAL PROJECTION SCREENS Equipment TV/Monitors SUBTOTAL ATHLETIC + OTHER EQUIPMENT Equipment SUBTOTAL EQUIPMENT NISHINGS WINDOW TREATMENT Furnishings		sf	assur	ned not required By Owner By Owner		

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9-Dec-22

GFA SUB

EST'D

		DESCRIPTIO	ON .	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
,	FITNES	SS ROOM	AND GAME ROOM - OPTION 1			•			
181									
182		21 - FIRE	SUPPRESSION						
183									
184		210000	FIRE PROTECTION						
185			Fire Protection System						
186			Adjust existing heads	1	ls	2,500.00	ETR		
187			SUBTOTAL					-	
188									
189		TOTAL - I	FIRE SUPPRESSION						
190		<u> </u>							
191		22 - PLUN	MBING						
192		<u> </u>							
193		220000	PLUMBING						
194			Plumbing Fixtures & Specialties						
195			Water cooler		ea	4,200.00	NR		
196			SUBTOTAL		ca	4,200.00	THE		
197			SUBTOTAL					-	
198									
199		TOTAL - I	PLUMBING						
200									
201									
202		23 - HVA	<u> </u>						
203									
204		230000							
205 206			Air distribution Solit AC accepts unit with ACCU			10 500 00	10.500		
207			Split AC cassette unit with ACCU Sheet metal & Accessories	1	ea	12,500.00	12,500		
208			Minor rework of duct + RGDs	1	ls	2,500.00	2,500		
209			Automatic Temperature Controls	•	15	2,300.00	2,500		
210			Automatic temperature controls DDC	2	loc	1,500.00	3,000		
211			Balancing						
212			System testing & balancing	2	rms	350.00	700		
213			SUBTOTAL					18,700	
214 215		momar :	W. L. C.						4.0
		TOTAL - I	HVAC						\$18,700
216 217									
218		26 - ELEC	TRICAL						
219									
220		260000	ELECTRICAL						
221			Equipment Wiring						
222			MEP equipment	1	unit	1,500.00	1,500		
223			Lighting (fixture schedule not provided, allow)			,,,	,		
224			Minor rework existing	1	ls	1,000.00	1,000		
225			Pendant lights - Game Room	2	ea	500.00	1,000		
226			Lighting Controls				,		
227			Lighting controls/switching/occupancy sensors	2	loc	250.00	ETR		
228			Branch Power						
229			Receptacles/Devices	2,280	gsf	2.00	4,560		
230			Fire Alarm						
231			Fire alarm system	2,280	gsf	3.50	ETR		
232			Telephone/Data/CATV						
233			Devices and cabling	2,280	gsf	1.00	2,280		
234			Audio/Visual systems	•	-		•		
235			Rough-in only with conduits and backboxes	2,280	gsf	0.75	1,710		
236			Sound system - Fitness	,	-	70	NIC		
237			SUBTOTAL					\$12,050	
238									

COST ESTIMATE - DECEMBER 9, 2022



Needham Center at the Heights Space Utilization Study #3480 Needham, MA Schematic Design Estimate

9-Dec-22

GFA	2,280
SUB	TOTAL

			UNIT	EST'D	SUB	TOTAL
DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

FITNESS ROOM AND GAME ROOM - OPTION 1

239	TOTAL -ELECTRICAL
240	·
241	TOTAL FITNESS ROOM

\$12,050

TOTAL FITNESS ROOM AND GAME ROOM - OPTION 1

\$104,450



9-Dec-22

3,595

	ON	QTY	UNIT	COST	COST	TOTAL	COS
SS ROOM	AND GAME ROOM - OPTION 2						
	Fitness Roon	ı		1,300			
	Café Lounge/Pantry/Vestibule			1,315			
	Game Room	1		980			
	TOTAL GROSS FLOOR AREA (GFA)				3,595	sf	
02 - EXIS	STING CONDITIONS						
024000	DEMOLITION						
	Interior Demolition						
	Remove/Dispose existing finishes + walls	3,595	sf	7.00	25,165		
	Score/Trench for electrical/floor boxes	1,300	sf	1.50	1,950		
	Protection/Temp partitions to isolate space	1	ls	2,500.00	2,500		
	SUBTOTAL					29,615	
TOTAL -	MASONRY						
03 - CON	CRETE						
033000	CONCRETE Interior Construction						
	Interior Construction	1 000	c.f	8.00	0.000		
	Floor patching/Prep - Fitness Room Minor floor prep - Game Room/Café Lounge/Pantry/Vestibule	1,300	sf sf	3.00	3,900 4,016		
	SUBTOTAL	2,295	31	1.75	4,010	7,916	
TOTAL -	CONCRETE						
L							
05 - MET	YALS						
05 - MET	TALS METAL FABRICATIONS						
	METAL FABRICATIONS Interior Construction						
	METAL FABRICATIONS Interior Construction Support for MEP equipment	1	ls	2,500.00	2,500		
	METAL FABRICATIONS Interior Construction	1	ls	2,500.00	2,500	2,500	
050001	METAL FABRICATIONS Interior Construction Support for MEP equipment	1	ls	2,500.00	2,500	2,500	
050001 TOTAL -	METAL FABRICATIONS Interior Construction Support for MEP equipment SUBTOTAL METALS	1	ls	2,500.00	2,500	2,500	
050001 <i>TOTAL</i> -	METAL FABRICATIONS Interior Construction Support for MEP equipment SUBTOTAL METALS DD, PLASTICS AND COMPOSITES	1	ls	2,500.00	2,500	2,500	
050001 TOTAL -	METAL FABRICATIONS Interior Construction Support for MEP equipment SUBTOTAL METALS DD, PLASTICS AND COMPOSITES ROUGH CARPENTRY	1	ls	2,500.00	2,500	2,500	
050001 <i>TOTAL</i> -	METAL FABRICATIONS Interior Construction Support for MEP equipment SUBTOTAL METALS DD, PLASTICS AND COMPOSITES ROUGH CARPENTRY Interior Construction					2,500	
050001 <i>TOTAL</i> -	METAL FABRICATIONS Interior Construction Support for MEP equipment SUBTOTAL METALS DD, PLASTICS AND COMPOSITES ROUGH CARPENTRY Interior Construction Misc carpentry/Blocking	1	ls	2,500.00	2,500		
050001 <i>TOTAL</i> -	METAL FABRICATIONS Interior Construction Support for MEP equipment SUBTOTAL METALS DD, PLASTICS AND COMPOSITES ROUGH CARPENTRY Interior Construction					2,500	
050001 <i>TOTAL</i> -	METAL FABRICATIONS Interior Construction Support for MEP equipment SUBTOTAL METALS DD, PLASTICS AND COMPOSITES ROUGH CARPENTRY Interior Construction Misc carpentry/Blocking SUBTOTAL ARCHITECTURAL WOODWORK						
050001 TOTAL - 06 - WO0 061000	METAL FABRICATIONS Interior Construction Support for MEP equipment SUBTOTAL METALS DD, PLASTICS AND COMPOSITES ROUGH CARPENTRY Interior Construction Misc carpentry/Blocking SUBTOTAL ARCHITECTURAL WOODWORK Interior Construction Ceiling/Wall paneling			2,500.00		2,500	
050001 TOTAL - 06 - WO0 061000	METAL FABRICATIONS Interior Construction Support for MEP equipment SUBTOTAL METALS DD, PLASTICS AND COMPOSITES ROUGH CARPENTRY Interior Construction Misc carpentry/Blocking SUBTOTAL ARCHITECTURAL WOODWORK Interior Construction Ceiling/Wall paneling Cabinetry/Built-ins			2,500.00 assu	2,500	2,500	
050001 TOTAL - 06 - W00 061000	METAL FABRICATIONS Interior Construction Support for MEP equipment SUBTOTAL METALS DD, PLASTICS AND COMPOSITES ROUGH CARPENTRY Interior Construction Misc carpentry/Blocking SUBTOTAL ARCHITECTURAL WOODWORK Interior Construction Ceiling/Wall paneling			2,500.00 assu	2,500 umed not required	2,500	

GFA

PMC - Project Management Cost

APPENDIX



Needham Center at the Heights Space Utilization Study #3480 Needham, MA Schematic Design Estimate

9-Dec-22

3,595

		DESCRIPTION	ON.	QTY	UNIT	UNIT COST		SUB TOTAL	TOTAL COST
į				4.1	J.111		505.		
	FITNES		AND GAME ROOM - OPTION 2						
60		074690							
61			Exterior Walls		,				
62			Minor repairs/Rework siding + trim at fireplace direct vent location	1	ls	750.00	750		
63			SUBTOTAL					750	
65		070000	WATERPROOFING / DAMPPROOFING / CAULKING						
66		070002	Interior Construction						
67			Caulking - dissimilar materials	1	ls	500.00	500		
68			SUBTOTAL			Ų	0,4	500	
69									
70		TOTAL -	THERMAL AND MOISTURE PROTECTION						\$1,250
71 72				<u></u>		<u></u>	<u></u>	<u></u>	
73		08 - OPE	NINGS						
74		<u> </u>							
75		084002	GLASS & GLAZING						
76			Interior Construction						
77			Wall mounted mirrors - Fitness	150	sf	40.00	6,000		
78			Glazing sidelights	2	loc	850.00	1,700		
79 80			SUBTOTAL					7,700	
81		081113	DOORS AND FRAMES						
82		561113	Interior						
83			Doors/Frames/Hardware						
84			Doors/HM frames - single	6	ea	1,150.00	6,900		
85			Doors/HM frames - double	1	ea	2,000.00	ETR		
86			Premium for glass in doors	6	ea	500.00	ETR		
87			Frames, sidelights	2	loc	900.00	1,800		
88			SUBTOTAL					8,700	
89 90		083100	ACCESS DOORS AND FRAMES						
91		000100	Interior Doors						
92			Access doors	2	rms	250.00	ETR		
93			SUBTOTAL			-		-	
94									
95		083323	OVERHEAD DOORS						
96			Interior Doors						
97			Overhead coiling door - 5x5 at Café Lounge	1	ea	6,500.00	6,500	Z=	
98 99			SUBTOTAL					6,500	
100		087100	DOOR HARDWARE						
101		, - -	Interior Doors						
102			Hardware to interior doors	8	set	900.00	ETR		
103			SUBTOTAL					-	
104		TOTAL -	OPENINGS						\$22,900
106									Ψ=2,900
107		_			_				
108		09 - FINI	SHES						
109			THE						
110		090002							
111			Interior Finishes Tile floor - Pantry and Vestibule	226	sf	35.00	7,910		
113			Tile hoor - Pantry and Vestibule Tile base	226 85	lf	35.00 26.00	7,910 2,210		
114			Thresholds/Transitions	1	ls	1,000.00	1,000		
115			SUBTOTAL			2,000.00	1,500	11,120	
116								11,120	
117		090003	ACT						
118			Interior Finishes						

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Needham CATH SD Estimate 12.09.22



9-Dec-22

3,595

GFA

	progny	ov.	om:	*******	UNIT	EST'D	SUB TOTAL	TOTAL
	DESCRIPTION	UN	QTY	UNIT	COST	COST	IOTAL	COST
	FITNESS ROOM	AND GAME ROOM - OPTION 2						
119		New ACT ceilings - Café Lounge/Pantry/Vestibule/Game Room	2,295	sf	8.50	19,508		
120		Open/Close/Patch existing ceilings	1	ls	1,500.00	1,500		
121		SUBTOTAL					21,008	
122								
123	090005	RESILIENT FLOORS						
124		<u>Interior Finishes</u>						
125		Resilient flooring - Café Lounge	1,089	sf	10.00	10,890		
126		Resilient sports sheet flooring - Fitness	1,300	sf	17.50	22,750		
127		Resilient base	400	lf	5.00	2,000		
128		SUBTOTAL					35,640	
129		DATMETNIC						
131	090007	PAINTING						
132		Interior Finishes Prep/Paint affected areas	3,595	sf	2.50	8,988		
133		SUBTOTAL	3,393	51	2.50	0,900	8,988	
134		SUBTOTAL					0,900	
135	092900	GWB						
136	-,,,,,	Interior Construction						
137		New partitions/Install door frames	875	sf	17.50	15,313		
138		Open/Close/Patch existing walls	3,595	sf	1.25	4,494		
139		SUBTOTAL					19,807	
140								
141	096800	CARPETING						
142		Interior Construction						
143		Carpet - Game Room	940	sf	6.50	6,110		
144		SUBTOTAL					6,110	
145 146		WALL COVERINGS						
	097200	WALLCOVERINGS						
147		Wall Finishes				1		
149		Vinyl wallcoverings/Graphics SUBTOTAL			assun	ned not required		
150		SUBTUTAL					-	
151	098413	SOUND ABSORBING PANELS						
152	,	Interior Finishes						
153		Acoustic panels		sf	35.00	NR		
154		SUBTOTAL					-	
155								
156	momer	TOWAYER						*****
157	TOTAL -	FINISHES						\$102,673
158 159								
160	10 - SPEC	CIALTIES						
161								
162	101100	VISUAL DISPLAY SURFACES						
163		Interior Construction						
164		Marker boards/Tackboards/Display cases			assun	ned not required		
165		SUBTOTAL					-	
166 167	101200	DISPLAY CASES						
168		Interior Construction						
169		Display cases	1	ls	10,000.00	10,000		
170		SUBTOTAL					10,000	
171							,	
172	103000	MANUFACTURED FIREPLACES						
173		Fireplace - includes hearth/surround/mantel	1	ls	15,000.00	15,000		
174		SUBTOTAL					15,000	
175 176	101400	SIGNAGE						
177		Interior Construction						
178		Room Signs			assun	ned not required		
		-				•		

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GFA



Needham Center at the Heights Space Utilization Study #3480 Needham, MA Schematic Design Estimate 9-Dec-22

3,595

EST'D TOTAL TOTAL DESCRIPTION UNIT FITNESS ROOM AND GAME ROOM - OPTION 2 179 Branding/Graphics assumed not required 180 SUBTOTAL 181 TOTAL - SPECIALTIES 182 \$25,000 183 185 11 - EQUIPMENT APPLIANCES 113100 **Equipment** 189 UC refrigerator - Fitness assumed not required 190 SUBTOTAL 191 192 115213 PROJECTION SCREENS 193 **Equipment** 194 TV/Monitors By Owner 195 SUBTOTAL 196 197 ATHLETIC + OTHER EQUIPMENT 116600 198 **Equipment** 199 Athletic/Fitness equipment By Owner 200 SUBTOTAL 201 202 203 TOTAL - EQUIPMENT 204 205 12 - FURNISHINGS 206 207 208 WINDOW TREATMENT 122100 **Furnishings** 210 Window blinds - protect existing to remain sf 7.00 ETR 211 SUBTOTAL 212 213 TOTAL - FURNISHINGS 214 215 21 - FIRE SUPPRESSION 216 217 218 FIRE PROTECTION 210000 219 Fire Protection System Adjust existing heads 3,500.00 3,500 221 SUBTOTAL 3,500 222 TOTAL - FIRE SUPPRESSION 223 \$3,500 224 22 - PLUMBING 225 220000 PLUMBING 228 Plumbing Fixtures & Specialties 229 Gas piping - fire place 2,500.00 2,500 230 Water cooler 4,200.00 NR 231 SUBTOTAL 2,500 232 233 234 TOTAL - PLUMBING \$2,500 235 236 23 - HVAC 237



9-Dec-22

					UNIT	EST'D	SUB		TOTAL	
	DESCRIPTIO	DN .	QTY	UNIT	COST	COST	тот	AL	COST	
FITNES	S ROOM	AND GAME ROOM - OPTION 2								
	230000	HVAC								
		Air distribution								
		Split AC cassette unit with ACCU	1	ea	12,500.00	12	2,500			
		Sheet metal & Accessories								
		Minor rework of duct + RGDs	1	ls	2,500.00	2	2,500			
		Automatic Temperature Controls								
		Automatic temperature controls DDC	2	loc	1,500.00	3	,000			
		Balancing								
		System testing & balancing	2	rms	350.00		700			
		SUBTOTAL						18,700		
ſ	TOTAL - I	HVAC							\$1	18,
L										
[26 - ELEC	TRICAL								_
L										_
	260000	ELECTRICAL								
		Equipment Wiring								
		MEP equipment	1	unit	1,500.00	1	1,500			
		Fireplace	1	unit	1,500.00	1	1,500			
		Lighting (fixture schedule not provided, allow)								
		Minor rework existing	1	ls	1,000.00	1	,000			
		New lights - Game Room	8	ea	500.00	4	,000			
		Lighting Controls								
		Lighting controls/switching/occupancy sensors	2	loc	250.00	ETR				
		Branch Power								
		Receptacles/Devices	3,595	gsf	2.00		7,190			
		Fire Alarm		-						
		Fire alarm system	3,595	gsf	3.50	ETR				
		Telephone/Data/CATV	3,070	Ü	5.0					
		Devices and cabling	3,595	gsf	1.00	,	3,595			
		Audio/Visual systems	0,070	J.		`				
		Rough-in only with conduits and backboxes	3,595	gsf	0.75	2	2,696			
		Sound system - Fitness	3,370	0.	- 1,0		NIC			
		SUBTOTAL						\$21,481		
ſ	TOTAL -E	LECTRICAL	·		· · · · · · · · · · · · · · · · · · ·				\$2	21,



Needham Center at the Heights Space Utilization Study #3480 Needham, MA Schematic Design Estimate

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Neednam, MA Schematic Design Estimate								
	CONS		OST SUMMARY OPTIO		Т ортіо.	V o	OPTION	Ī A
ROOF DECK	Subtotal	Total	Subtotal	Total	Subtotal	Total	Subtotal	Total
DIV. 2 EXISTING CONDITIONS 024100 Demolition 013280 Haz-Mat Abatement	\$21,990 \$0	\$21,990	\$5,745 \$0	\$5,745	\$3,000 \$0	\$3,000	\$1,500 \$0	\$1,500
DIV. 3 CONCRETE 033000 Cast In Place Concrete	\$24,776	\$24,776	\$o	\$o	\$o	\$0	\$o	\$0
DIV. 4 MASONRY 044000 Masonry	\$120,190	\$120,190	\$o	\$0	\$o	\$0	\$o	\$0
DIV. 5 METALS	***	\$139,020		\$10,000		\$10,000	4.	\$9,000
050001 Metal Fabrications 051200 Structural Steel Framing 053100 Steel Decking	\$16,428 \$105,000 \$17,592		\$0 \$10,000 \$0		\$0 \$10,000 \$0		\$0 \$9,000 \$0	
DIV. 6 WOODS, PLASTICS & COMPOSITES 061000 Rough Carpentry 064000 Architectural Woodwork	\$7,330 \$14,660	\$21,990	\$0 \$0	\$o	\$0 \$0	\$0	\$0 \$0	\$0
DIV. 7 THERMAL & MOISTURE PROTECTION		\$90,353		\$7,266		\$5,000		\$5,000
070001 Waterproofing/Dampproofing/Caulking 070002 Roofing & Flashing	\$21,880 \$57,174		\$766 \$6,500		\$0 \$5,000		\$0 \$5,000	
072100 Thermal Insulation	\$1,235		\$o		\$5,000 \$0		\$o	
074210 Metal Wall Panels 074690 Siding	\$0 \$0		\$0 \$0		\$0 \$0		\$0 \$0	
077200 Roof Specialties	\$0 \$4.765		\$0 \$0		\$0 \$0		\$0 \$0	
078100 Applied Fireproofing 078400 Firestopping	\$4,765 \$3,299		\$0 \$0		\$0 \$0		\$0 \$0	
079513 Construction & Expansion Joints	\$2,000		\$o		\$o		\$o	
DIV. 8 DOORS & WINDOWS		\$82,904		\$o		\$o		\$0
084002 Glass & Glazing 081113 Doors and Frames	\$66,278 \$10,995		\$0 \$0		\$0 \$0		\$0 \$0	
083100 Access Doors and Panels	\$500		\$o		\$o		\$o	
083323 Overhead Coiling Doors 083400 Specialty Doors	\$0 \$0		\$0 \$0		\$0 \$0		\$0 \$0	
087100 Door Hardware 089000 Louvers and Vents	\$5,131 \$0		\$0 \$0		\$0 \$0		\$0 \$0	
	\$0		\$0		\$0		\$0	
DIV. 9 FINISHES 090000 General Finishes	\$51,310	\$51,310	\$o	\$o	\$o	\$o	\$o	\$0
090002 Tile	\$o		\$o		\$o		\$o	
090003 Acoustical Ceilings 090005 Resilient Flooring	\$0 \$0		\$0 \$0		\$0 \$0		\$0 \$0	
090009 Painting	\$0		\$o		\$o		\$0	
092900 GWB, Lath and Plastering 096400 Wood Flooring	\$0 \$0		\$0 \$0		\$0 \$0		\$0 \$0	
096460 Wood Athletic Flooring 096766 Fluid Applied Flooring	\$0 \$0		\$0 \$0		\$0 \$0		\$0 \$0	
096800 Carpet	\$0 \$0		\$0		\$0 \$0		\$0 \$0	
097200 Wallcoverings/FRP 098414 Acoustic Panels	\$0 \$0		\$0 \$0		\$0 \$0		\$0 \$0	
DIV 10 SPECIALTIES		\$2,932		\$o		\$o		\$0
100000 Miscellaneous Specialties 101100 Markerboards	\$2,932 \$0		\$0 \$0		\$0 \$0		\$0 \$0	
101200 Display Cases	\$o		\$o		\$o		\$o	
101400 Signage 102113 Toilet Compartments	\$0 \$0		\$0 \$0		\$0 \$0		\$0 \$0	
102228 Operable Partition	\$o		\$o		\$o		\$o	
102813 Toilet Accessories 103000 Gas Fireplaces	\$0 \$0		\$0 \$0		\$0 \$0		\$0 \$0	
104400 Safety Specialties 105113 Metal Lockers	\$0 \$0		\$0 \$0		\$0 \$0		\$0 \$0	
DIV. 11 EQUIPMENT		\$2,199		\$o		\$o		\$o
110000 Miscellaneous Equipment	\$2,199	+-,-,,	\$0	**	\$o	**	\$o	**
113100 Appliances 114000 Foodservice Equipment	\$0 \$0		\$0 \$0		\$0 \$0		\$0 \$0	
115213 Projection Screens 116623 Athletic Equipment	\$0 \$0		\$0 \$0		\$0 \$0		\$0 \$0	
	Ų0		40		40		Ų.	
DIV. 12 FURNISHINGS 120000 Miscellaneous Furnishings	\$3,665	\$3,665	\$o	\$0	\$o	\$0	\$o	\$0
122400 Window Shades	\$0		\$o		\$0		\$o	
124813 Entrance Floor Mats and Frames	\$o		\$o		\$o		\$o	
DIV. 13 SPECIAL CONSTRUCTION 130000 Greenhouses	\$o	\$o	\$70,855	\$70,855	\$o	\$85,500	\$0	\$0
130000 Trellis	\$0		\$o		\$85,500		\$o	
130000 Shade Sail	\$o		\$o		\$o		\$o	
DIV. 14 CONVEYING SYSTEMS 140000 Elevators	\$o	\$o	\$o	\$0	\$o	\$0	\$o	\$o
DIV. 21 FIRE SUPPRESSION 210000 Fire Suppression	\$13,927	\$13,927	\$o	\$0	\$o	\$0	\$o	\$o
DIV.22 PLUMBING 220000 Plumbing	\$21,990	\$21,990	\$1,915	\$1,915	\$ 0	\$0	\$o	\$0
DIV. 23 HVAC 230000 HVAC	\$80,630	\$80,630	\$7,660	\$7,660	\$o	\$0	\$o	\$0
DIV.26 ELECTRICAL 260000 Electrical	\$58,640	\$58,640	\$7,660	\$7,660	\$3,420	\$3,420	\$3,500	\$3,500
DIV. 31 EARTHWORK 310000 Earthwork	\$ 0	\$o	\$o	\$o	\$o	\$o	\$0	\$0
DIV. 32 EXTERIOR IMPROVEMENTS 323100 Site Improvements	\$0	\$o	\$o	\$o	\$0	\$o	\$o	\$0

Needham CATH 5D Estimate 12:02:2 Page 17 PMC - Project Management Cost

COST ESTIMATE - DECEMBER 9, 2022

APPENDIX

PM&C

Needham Center at the Heights Space Utilization Study #3480 Needham, MA Schematic Design Estimate

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	CON	STRUCTION C	OST SUMMAR	Y IN CSI FORM	AT			
	OPT	ION 1	OPT	ION 2	OPTI	ON 3	OPTI	ON 4
	Subtotal	Total	Subtotal	Total	Subtotal	Total	Subtotal	Total
ROOF DECK								
SUBTOTAL DIRECT (TRADE) COST		\$736,516		\$111,101		\$106,920		\$19,000

COST ESTIMATE - DECEMBER 9, 2022



Needham Center at the Heights Space Utilization Study #3480 Needham, MA Schematic Design Estimate

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		CONSTRUCTION CO.	ST SUMMARY IN CSI FORMA	T	
		OPTION 4			
		Subtotal Total	Subtotal Total	Subtotal Total	Subtotal Total
ROOF DECK					
ESCALATION	6.0%	\$44,191	\$6,666	\$6,415	\$1,140
DESIGN AND PRICING CONTINGENCY	10.0%	\$73,652	\$11,110	\$10,692	\$1,90
SUB-TOTAL		\$854,359	\$128,877	\$124,027	\$22,04
GENERAL CONDITIONS	12.5%	\$106,795	\$16,110	\$15,503	\$2,75
GENERAL REQUIREMENTS	3.5%	\$29,903	\$4,511	\$4,341	\$77
PHASING PREMIUM	5.0%	\$42,718	\$6,444	\$6,201	\$1,10
BONDS	0.75%	\$6,408	\$967	\$930	\$16
INSURANCE	1.40%	\$11,961	\$1,804	\$1,736	\$30
PERMIT - \$10.00 per \$1,000		\$8,544	\$1,289	\$1,240	\$22
OVERHEAD + PROFIT	10.0%	\$105,214	\$15,871	\$15,274	\$2,71
TOTAL OF ALL CONSTRUCTION		\$1,165,902	\$175,873	\$169,252	\$30,076



Needham CATH SD Estimate 12.09.22

9-Dec-22

1,466

GFA

DESCRIPTION OF DECK - OP	ON COLUMN	1 7		UNIT			TOTAL
OF DECK - OP		QTY	UNIT	COST	EST'D COST	SUB TOTAL	COST
	TION 1						
	Addition - Roof I	Dook		1,466			
		Jeck .		1,400			
	TOTAL GROSS FLOOR AREA (GFA)				1,466	sf	
02 - EXIS	TING CONDITIONS						
024000	DEMOLITION						
	Interior Demolition		c				
	Demo/Prep for new addition - includes protection SUBTOTAL	1,466	sf	15.00	21,990	21,990)
momax						21,990	
TOTAL - I	MASONRY						\$
COM	CDETT						
03 - CONO	CRETE						
033000	CONCRETE						
	Floor Construction Floor Structure - Steel/Concrete:						
	Mesh reinforcement in concrete topping	1,686	sf	2.50	4,215		
	Concrete slab to metal decking, 5" total thickness; normal weight	24	cy	200.00	4,800		
	Place + finish slabs	1,466	sf	10.00	14,660		
	Rebar at slab edges	367	lbs	3.00	1,101		
	SUBTOTAL					24,776	,
TOTAL - 0	CONCRETE						\$
L							
04 - MAS	ONRY						
	Missimy						
040000	MASONRY Exterior Walls						
	Precast panels	1,414	sf	85.00	120,190		
	SUBTOTAL	-,		0,.00	120,190	120,190)
TOTAL - I	MASONRY						\$1
05 - META	ALS						
050001	METAL FABRICATIONS						
-,,0001	Exterior Walls						
	Misc. metals at masonry	1,414	sf	2.00	2,828		
	Sunshades	68	lf	200.00	13,600		
	Interior Construction						
	Extend egress stairs			assun	ned not required		
	SUBTOTAL					16,428	\$
051200	STRUCTURAL STEEL FRAMING						
0,1200	Roof Construction						
0,1200	Augment/Modify/Prep existing structure for roof top addition	1	ls	20,000.00	20,000		
0,1200			tns	8,500.00	85,000		
0,1200	Structural steel framing - based on 13.5lbs/sf	10					
	Structural steel framing - based on 13.5lbs/sf Roof top equipment screen - structure	10			ned not required		
		10			ned not required included above		
Sures	Roof top equipment screen - structure	10					,

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GFA

PMC - Project Management Cost

APPENDIX



Needham Center at the Heights Space Utilization Study #3480 Needham, MA Schematic Design Estimate

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1,466

					•	-	GFA	1,466
	DESCRIPTI	ON	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	ROOF DECK - OI	PTION 1	ı					
59		Floor Construction						
60		Metal floor decking; 3"		sf	7.00	ETR		
61		Roof Construction Metal floor decking; 2"	1 166	sf	12.00	17.500		
63		SUBTOTAL	1,466	51	12.00	17,592	17,592	
64							-/107-	
65	054000	COLD FORM METAL FRAMING						
66		With Div. 9 (backup walls)						
67 68		SUBTOTAL					-	
69	TOTAL -	METALS						\$139,020
70								
71 72		DD. DI ACTUCC AND COMPOSITES						
73	06 - WO	DD, PLASTICS AND COMPOSITES						
74	061000	ROUGH CARPENTRY						
75		Floor/Roof Construction						
76		Miscellaneous blocking/carpentry	1,466	gsf	5.00	7,330		
77		SUBTOTAL					7,330	
78 79	064100	ARCHITECTURAL WOODWORK						
80	004100	Specialties / Millwork						
81		Millwork/Finish Carpentry package	1,466	gsf	10.00	14,660		
82		SUBTOTAL					14,660	
83 84	TOTAL -	WOOD, PLASTICS AND COMPOSITES						\$21,990
85	101112	, , , , , , , , , , , , , , , , , , ,						¥=1,990
86								
87	07 - THE	RMAL AND MOISTURE PROTECTION						
88 89	070003	WATERPROOFING / DAMPPROOFING / CAULKING						
90	0/0002	Exterior Walls						
91		2" Composite sheathing board w/integral weather resistance barrier	1,414	sf	11.00	15,554		
92		Miscellaneous sealants to closure	1,414	sf	0.50	707		
93		Air barrier/flashing at storefront & windows	190	lf	9.00	1,710		
94		Backer rod & double sealant	190	lf	9.00	1,710		
95 96		Interior Construction Miscellaneous sealants	1,466	gsf	1.50	2 100		
97		SUBTOTAL	1,400	goi	1.50	2,199	21,880	
98		662161111					21,000	
99	070002	ROOFING AND FLASHING						
100		Roof Coverings						
101		Membrane Roof						
102		Roofing complete; TPO	1,466	sf	39.00	57,174		
103		SUBTOTAL					57,174	
105	072100	THERMAL INSULATION						
106	0/2100	Exterior Walls						
107		Insulation - 2" composite sheathing board + batt insulation				w/ GWB		
108		Foam insulation at window framing cavities	190	lf	6.50	1,235		
109		SUBTOTAL					1,235	
110								
111	078100	FIREPROOFING						
112		Floor Construction Spray-applied fireproofing	1,466	gsf	9.05	A 76-		
114		Intumescent fireproofing	1,400	gsı	3.25	4,765 included above		
115		Roof Construction				merudeu above		
116		Fire proofing to columns, beams and deck				included above		

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1,466

				UNIT	EST'D	SUB	TOTAL
DESCRIPTIO	ON	QTY	UNIT	COST	COST	TOTAL	COST
OF DECK - OP	TION 1						
	SUBTOTAL					4,765	
078400	FIRESTOPPING						
	Floor Construction Miscellaneous fire stopping	1,466	gsf	2.25	3,299		
	SUBTOTAL	1,400	goi	2.20	3,299	0.000	
	SUBTUTAL					3,299	
079513	EXPANSION JOINTS						
1,700	Floor Construction						
	Allowance for expansion joints	1	ls	2,000.00	2,000		
	SUBTOTAL					2,000	
momax	THE DAY AND MOVEMENT DROWN THE DAY						
TOTAL -	THERMAL AND MOISTURE PROTECTION						\$90
o8 - OPEN	NINGS						
084002	GLASS & GLAZING						
-	Windows						
	New windows	476	sf	130.00	61,880		
	Interior Construction						
	Interior sidelights/borrowed lights	1,466	gsf	3.00	4,398		
	SUBTOTAL					66,278	
081113	DOORS AND FRAMES						
081113	Interior						
	Doors/Frames						
	Door frames/Doors	1,466	gsf	7.50	10,995		
	SUBTOTAL	·•	~	, 3-	.,,,0	10,995	
						,,,,,	
083100	ACCESS DOORS AND FRAMES						
	<u>Interior Doors</u>						
	Access doors	1	levels	500.00	500		
	SUBTOTAL					500	
087100	DOOR HARDWARE						
	Interior Doors						
	Hardware to interior doors	1,466	gsf	3.50	5,131		
	SUBTOTAL					5,131	
TOTAL -	OPENINGS						\$82
							+ <u>-</u>
09 - FINIS	CHEC						
og - FINE	SILES						
090000	FINISHES						
090000	FINISHES Partitions/Floors/Ceilings	1,466	gsf	35.00	51,310		
090000		1,466	gsf	35.00	51,310	51,310	
090000	Partitions/Floors/Ceilings	1,466	gsf	35.00	51,310	51,310	
	Partitions/Floors/Ceilings SUBTOTAL	1,466	gsf	35.00	51,310	51,310	\$5.1
	Partitions/Floors/Ceilings	1,466	gsf	35.00	51,310	51,310	\$51
TOTAL -	Partitions/Floors/Ceilings SUBTOTAL FINISHES	1,466	gsf	35.00	51,310	51,310	\$5:
	Partitions/Floors/Ceilings SUBTOTAL FINISHES	1,466	gsf	35.00	51,310	51,310	\$51
TOTAL -	Partitions/Floors/Ceilings SUBTOTAL FINISHES ZALTIES SPECIALTIES	1,466		35.00	51,310	51,310	\$51
TOTAL -	Partitions/Floors/Ceilings SUBTOTAL FINISHES ZALTIES SPECIALTIES Misc specialties	1,466	gsf	2.00	51,310	51,310	\$51
TOTAL -	Partitions/Floors/Ceilings SUBTOTAL FINISHES ZALTIES SPECIALTIES					51,310	\$51

GFA



Needham Center at the Heights Space Utilization Study #3480 Needham, MA Schematic Design Estimate

9-Dec-22

1,466

						GFA	1,4
DESCRIPTIO	N	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
OF DECK - OP	TION 1	1				l .	
11 - EQUIF	PMENT						
110000	EQUIPMENT						
	Misc equipment/appliances	1,466	gsf	1.50	2,199		
	SUBTOTAL					2,199	
	SUBTOTAL					-	
TOTAL - 1	EQUIPMENT						\$2,19
							
12 - FURN	ISHINGS						
120000	FURNISHINGS						
	Misc furnishings	1,466	gsf	2.50	3,665		
	SUBTOTAL					3,665	
TOTAL - 1	FURNISHINGS						\$3,66
14 - CONV	EYING SYSTEMS						
142200	ELEVATOR						
-	Elevator extend			assu	med not required		
	SUBTOTAL					_	
TOTAL	CONVEYING						
TOTAL - C	CONVEILING						
21 - FIRE	SUPPRESSION						
210000	FIRE PROTECTION						
	Fire Protection System - extended from existing system	1,466	gsf	9.50	13,927		
	SUBTOTAL					13,927	
TOTAL - F	TIRE SUPPRESSION						\$13,9
TOTAL - F	IKE SUIT KESSION						φ13,94
22 - PLUM	IBING						
	N. V. P. P. V. P.						
	Plumbing systems - extended from existing system	1 466	gof	15.00	01.000		
	Plumbing systems - extended from existing system SUBTOTAL	1,466	gsf	15.00	21,990	21,990	
						21,990	
TOTAL - P	PLUMBING						\$21,99
							. 727
23 - HVAC	,						
230000			- 6		0		
	HVAC systems - extended from existing system SUBTOTAL	1,466	gsf	55.00	80,630	80,630	
						,-,00	40- 1
TOTAL - H	IVAU						\$80,63
26 - ELEC	TRICAL						

TOTAL ROOF DECK - OPTION 1

APPENDIX



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Needham Center at the Heights Space Utilization Study #3480 Needham, MA Schematic Design Estimate

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\$58,640

\$736,516

								GFA	1,466
		DESCRIPTION	ON .	QTY	UNIT	UNIT COST	EST'D COST		TOTAL COST
	ROOF	DECK - OP	TION 1						
236									
237		260000	ELECTRICAL						
238			Electrical systems - extended from existing system	1,466	gsf	40.00	58,640		
239			SUBTOTAL					\$58,640	
240									
241	ſ	TOTAL -I	ELECTRICAL						\$58,640

GFA



Needham Center at the Heights Space Utilization Study #3480 Needham, MA Schematic Design Estimate

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383

					1		
DECK - OI	TION 2						
	Greenhouse - I	Roof Deck		383			
	TOTAL GROSS FLOOR AREA (GFA)				383	sf	
					3-3		
02 - EXIS	STING CONDITIONS						
024000	DEMOLITION Interior Demolition						
	Demo/Prep for new greenhouse - includes protection	383	sf	15.00	5,745		
	SUBTOTAL	0.0		0	0,, 10	5,745	
TOTAL -	MASONRY						
05 - MET	ALS						
050001	METAL FABRICATIONS				NR		
	SUBTOTAL					-	
051200	STRUCTURAL STEEL FRAMING						
	Roof Construction						
	Augment/Modify/Prep existing structure for greenhouse connection	s 1	ls	10,000.00	10,000		
	SUBTOTAL					10,000	
TOTAL -							
07 - THE	RMAL AND MOISTURE PROTECTION						
	RMAL AND MOISTURE PROTECTION WATERPROOFING / DAMPPROOFING / CAULKING						
07 - THE	RMAL AND MOISTURE PROTECTION WATERPROOFING / DAMPPROOFING / CAULKING Exterior Walls	383	gsf	2.00	766		
07 - THE	RMAL AND MOISTURE PROTECTION WATERPROOFING / DAMPPROOFING / CAULKING	383	gsf	2.00	766	766	
07 - THE 070002	RMAL AND MOISTURE PROTECTION WATERPROOFING / DAMPPROOFING / CAULKING Exterior Walls Miscellaneous sealants to closure	383	gsf	2.00	766	766	
07 - THE	RMAL AND MOISTURE PROTECTION WATERPROOFING / DAMPPROOFING / CAULKING Exterior Walls Miscellaneous sealants to closure SUBTOTAL ROOFING AND FLASHING	383	gsf	2.00	766	766	
07 - THE 070002	RMAL AND MOISTURE PROTECTION WATERPROOFING / DAMPPROOFING / CAULKING Exterior Walls Miscellaneous sealants to closure SUBTOTAL ROOFING AND FLASHING Roof Coverings	383	gsf	2.00	766	766	
07 - THE 070002	RMAL AND MOISTURE PROTECTION WATERPROOFING / DAMPPROOFING / CAULKING Exterior Walls Miscellaneous sealants to closure SUBTOTAL ROOFING AND FLASHING Roof Coverings Roofing					766	
07 - THE 070002	RMAL AND MOISTURE PROTECTION WATERPROOFING / DAMPPROOFING / CAULKING Exterior Walls Miscellaneous sealants to closure SUBTOTAL ROOFING AND FLASHING Roof Coverings Roofing Miscellaneous roof patching	383	gsf	2.00	766 5,000	766	
07 - THE 070002	RMAL AND MOISTURE PROTECTION WATERPROOFING / DAMPPROOFING / CAULKING Exterior Walls Miscellaneous sealants to closure SUBTOTAL ROOFING AND FLASHING RoofCoverings Roofing Miscellaneous roof patching Flashings	1	ls	5,000.00	5,000	766	
07 - THE 070002	RMAL AND MOISTURE PROTECTION WATERPROOFING / DAMPPROOFING / CAULKING Exterior Walls Miscellaneous sealants to closure SUBTOTAL ROOFING AND FLASHING Roof Coverings Roofing Miscellaneous roof patching					766	
07-THE 070002 070002	RMAL AND MOISTURE PROTECTION WATERPROOFING / DAMPPROOFING / CAULKING Exterior Walls Miscellaneous sealants to closure SUBTOTAL ROOFING AND FLASHING RoofCoverings Roofing Miscellaneous roof patching Flashings Flashings Flashings/Tie into existing exterior walls	1	ls	5,000.00	5,000		
07-THE 070002 070002	RMAL AND MOISTURE PROTECTION WATERPROOFING / DAMPPROOFING / CAULKING Exterior Walls Miscellaneous sealants to closure SUBTOTAL ROOFING AND FLASHING Roof Coverings Roofing Miscellaneous roof patching Flashings Flashings Flashings/Tie into existing exterior walls SUBTOTAL	1	ls	5,000.00	5,000		
07 - THE 070002 070002	RMAL AND MOISTURE PROTECTION WATERPROOFING / DAMPPROOFING / CAULKING Exterior Walls Miscellaneous sealants to closure SUBTOTAL ROOFING AND FLASHING Roof Coverings Roofing Miscellaneous roof patching Flashings Flashings Flashings/Tie into existing exterior walls SUBTOTAL	1	ls	5,000.00	5,000		
07 - THE 070002 070002	RMAL AND MOISTURE PROTECTION WATERPROOFING / DAMPPROOFING / CAULKING Exterior Walls Miscellaneous sealants to closure SUBTOTAL ROOFING AND FLASHING Roof Coverings Roofing Miscellaneous roof patching Flashings Flashings Flashings/Tie into existing exterior walls SUBTOTAL THERMAL AND MOISTURE PROTECTION	1	ls	5,000.00	5,000		
07 - THE 070002 070002 TOTAL -	RMAL AND MOISTURE PROTECTION WATERPROOFING / DAMPPROOFING / CAULKING Exterior Walls Miscellaneous sealants to closure SUBTOTAL ROOFING AND FLASHING Roof Coverings Roofing Miscellaneous roof patching Flashings Flashings/Tie into existing exterior walls SUBTOTAL THERMAL AND MOISTURE PROTECTION	1	ls	5,000.00	5,000		
07 - THE 070002 070002 TOTAL -	RMAL AND MOISTURE PROTECTION WATERPROOFING / DAMPPROOFING / CAULKING Exterior Walls Miscellaneous sealants to closure SUBTOTAL ROOFING AND FLASHING Roof Coverings Roofing Miscellaneous roof patching Flashings Flashings Flashings/Tie into existing exterior walls SUBTOTAL THERMAL AND MOISTURE PROTECTION ETAL CONSTRUCTION GREENHOUSE	1	ls ls	5,000.00 1,500.00	5,000 1,500		
07-THE 070002 070002 TOTAL- 13-SPEC	RMAL AND MOISTURE PROTECTION WATERPROOFING / DAMPPROOFING / CAULKING Exterior Walls Miscellaneous sealants to closure SUBTOTAL ROOFING AND FLASHING RoofCoverings Roofing Miscellaneous roof patching Flashings Flashings Flashings/Tie into existing exterior walls SUBTOTAL THERMAL AND MOISTURE PROTECTION CIAL CONSTRUCTION GREENHOUSE Greenhouse	1	ls ls	5,000.00 1,500.00	5,000 1,500	6,500	

210000 FIRE PROTECTION



9-Dec-22

DESCRIPTION	ON	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL
F DECK - OF	TION 2					ı	ı
	Fire Protection System	383	gsf	10.00	NR		
	SUBTOTAL					-	
TOTAL	FIRE SUPPRESSION						
IOIAL -	FIRE SUPPRESSION						
22 - PLU	MBING						
220000	PLUMBING						
	Plumbing systems	383	gsf	5.00	1,915		
	SUBTOTAL			-		1,915	
TOTAL -	PLUMBING						
23 - HVA							
230000	HVAC systems	383	gsf	20.00	7,660		
	SUBTOTAL	5-5	0-		,,,	7,660	
TOTAL -	HVAC						
26 - ELEC	CTRICAL						
260000	ELECTRICAL						
	Electrical systems	383	gsf	20.00	7,660		
	SUBTOTAL					\$7,660	
momar v	ELECTRICAL						
TOTAL -I							

GFA



Needham Center at the Heights Space Utilization Study #3480 Needham, MA Schematic Design Estimate

9-Dec-22

684

	6 loc 500.00 3,000 3,000 NR 1 ls 10,000.00 10,000 10,000 \$10 \$10 684 gsf 125.00 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000	Trellis - Roof Deck	DESCRIPTI	ION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
D2 - EXISTING CONDITIONS	6 loc 500.00 3,000 NR 1 ls 10,000.00 10,000 10,000 \$1	DESCRIPTIONS DEMOLITION Demolitical Demol	OF DECK - O	PTION 3						
02 - EXISTING CONDITIONS	6 loc 500.00 3,000 NR	DESCRIPTION CONDITIONS DEMOLITION DEMO		Trellis - Roof De	ck		684			
DEMOLITION Interior Demolition Demo/Prep for new trelits - includes protection 6 loc 500.00 3.00	\$5.000 \$10,000	O24000 DEMOLITION		TOTAL GROSS FLOOR AREA (GFA)				684	sf	
O24000 DEMOLITION Interior Demolition Demo/Prep for new trellis - includes protection 6 loc 500.00 3.0	\$1 ls 10,000.00 10,000 1 ls 5,000.00 5,000 \$10	O24000 DEMOLITION								
Interior Demolition Demol/Prep for new trellis - includes protection 6 loc 500.00 3,000 3,	1 ls 10,000.00 10,000 1 ls 5,000.00 5,000 \$10,	Interior Demolition Demolitical Demolition Demolition Demolition Demolition Demolitical Demolition Demolitical	02 - EXIS	STING CONDITIONS						
Demo/Pep for new trellis - includes protection SUBTOTAL SOO, 00 SUBTOTAL SUBTOTAL SUBTOTAL SOO, 00 SUBTOTAL SOO, 00 SUBTOTAL SUBTOTAL SOO, 00 SUBTOTAL SOO, 00 SUBTOTAL SOO, 00	\$1 ls 10,000.00 10,000 1 ls 5,000.00 5,000 \$10	Demo/Prey for new trellis - includes protection 6 loc 500.00 3,000	024000	DEMOLITION						
SUBTOTAL	\$1 ls 10,000.00 10,000 1 ls 5,000.00 5,000 \$10	TOTAL - MASONRY								
	NR - 1 ls 10,000.00 10,000 10,000 \$10 \$10 \$10 \$10 \$10	Dog - METALS			6	loc	500.00	3,000	2 000	
05-METALS 050001 METAL FABRICATIONS NR SUBTOTAL	NR 1 ls 10,000.00 10,000 10,000 \$16 1 ls 5,000.00 5,000 \$5,000 \$6 \$5,000 \$8 \$8 \$6 \$8 \$6 \$8 \$8 \$6 \$8 \$8	05 - METALS							3,000	
O NETAL FABRICATIONS NR SUBTOTAL	1 ls 10,000.00 10,000 10,000 \$10 \$10 \$10 \$10 \$10	O30001 METAL FABRICATIONS NR SUBTOTAL	TOTAL -	MASONRY						\$3
SUBTOTAL STRUCTURAL STEEL FRAMING Roof Construction Augment/Modify/Prep existing structure for trellis connections 1	1 ls 10,000.00 10,000 1 ls 5,000.00 5,000 \$1 684 gsf 125.00 85,500 85,500 88,500 \$8,500	SUBTOTAL STRUCTURAL STEEL FRAMING Roof Construction Augment Modify Prep existing structure for trellis connections 1	05 - MET	TALS						
O51200 STRUCTURAL STEEL FRAMING Roof Construction Augment/Modify/Prep existing structure for trellis connections 1	1 ls 5,000.00 5,000 \$10,000 1 ls 5,000.00 5,000 \$5,	O5:200 STRUCTURAL STEEL FRAMING	050001	METAL FABRICATIONS				NR		
Roof Construction Augment/Modify/Prep existing structure for trellis connections 1 1s 10,000.000 10,000 10,000 10,000	1 ls 5,000.00 5,000 \$10,000 1 ls 5,000.00 5,000 \$5,	Roof Construction Augment/Modify/Prep existing structure for trellis connections 1		SUBTOTAL					-	
Augment/Modify/Prep existing structure for trellis connections SUBTOTAL TOTAL - METALS 07-THERMAL AND MOISTURE PROTECTION 07-O002 ROOFING AND FLASHING Roof Coverings Roofing Miscellaneous roof patching SUBTOTAL TOTAL - THERMAL AND MOISTURE PROTECTION 1 ls 5,000.00 5,000 SUBTOTAL TOTAL - THERMAL AND MOISTURE PROTECTION 13-SPECIAL CONSTRUCTION 13-SPECIAL CONSTRUCTION 130000 TRELLIS Trellis - structure / finishes SUBTOTAL TOTAL - FURNISHINGS 26-ELECTRICAL Electrical systems - lighting & power SUBTOTAL S3,420 \$3,420	1 ls 5,000.00 5,000 \$10,000 1 ls 5,000.00 5,000 \$5,	Augment/Modify/Prep existing structure for trellis connections SUBTOTAL TOTAL - METALS 81. 07-THERMAL AND MOISTURE PROTECTION	051200							
SUBTOTAL 10,000 TOTAL - METALS	1 ls 5,000.00 5,000 \$10,000 1 ls 5,000.00 5,000 \$5,	TOTAL - METALS		-		le	10,000,00	10,000		
07-THERMAL AND MOISTURE PROTECTION	1 ls 5,000.00 5,000 \$6 684 gsf 125.00 85,500 85,500 \$8;	07-THERMAL AND MOISTURE PROTECTION				. 13	10,000.00	10,000	10,000	
07-THERMAL AND MOISTURE PROTECTION	1 ls 5,000.00 5,000 \$6 684 gsf 125.00 85,500 85,500 \$8;	07-THERMAL AND MOISTURE PROTECTION	TOTAL -	METALS						\$10
13 - SPECIAL CONSTRUCTION 130000 TRELLIS	684 gsf 125.00 85,500 85,500 \$8; 684 gsf 5.00 3,420 \$3,420	13 - SPECIAL CONSTRUCTION 130000 TRELLIS	070002	Roof Coverings Roofing Miscellaneous roof patching	1	ls	5,000.00	5,000	5,000	
130000 TRELLIS Trellis - structure / finishes 684 gsf 125,00 85,500 SUBTOTAL TOTAL - FURNISHINGS 26 - ELECTRICAL 260000 ELECTRICAL Electrical systems - lighting & power 684 gsf 5.00 3,420 SUBTOTAL \$3,42	85,500 \$85,	130000 TRELLIS Trellis - structure / finishes SUBTOTAL TOTAL - FURNISHINGS 26 - ELECTRICAL 260000 ELECTRICAL Electrical systems - lighting & power SUBTOTAL TOTAL - ELECTRICAL \$3,420 TOTAL - ELECTRICAL	TOTAL -	THERMAL AND MOISTURE PROTECTION						\$5
Trellis - structure / finishes 684 gsf 125.00 85,500 85,500	85,500 \$8, 684 gsf 5.00 3,420 \$3,420	Trellis - structure / finishes 684 gsf 125.00 85,500 85,500	13 - SPE	CIAL CONSTRUCTION						
Trellis - structure / finishes 684 gsf 125.00 85,500 85,500	85,500 \$8, 684 gsf 5.00 3,420 \$3,420	Trellis - structure / finishes Subtotal Subtotal	130000	TRELLIS						
TOTAL - FURNISHINGS 26 - ELECTRICAL 260000 ELECTRICAL Electrical systems - lighting & power 684 gsf 5.00 3,420 SUBTOTAL \$3,42	684 gsf 5.00 3,420 \$3,420	### TOTAL - FURNISHINGS 26 - ELECTRICAL		Trellis - structure / finishes	684	gsf	125.00	85,500		
26 - ELECTRICAL 260000 ELECTRICAL Electrical systems - lighting & power 684 gsf 5.00 3.420 SUBTOTAL \$3,42	684 gsf 5.00 3,420 \$3,420	26 - ELECTRICAL 260000 ELECTRICAL Electrical systems - lighting & power 684 gsf 5.00 3.420 SUBTOTAL \$3,420		SUBTOTAL					85,500	
260000 ELECTRICAL Electrical systems - lighting & power 684 gsf 5.00 3,420 SUBTOTAL \$3,42	\$3,420	260000 ELECTRICAL Electrical systems - lighting & power 684 gsf 5.00 3,420 SUBTOTAL \$3,420	TOTAL -	FURNISHINGS						\$8
Electrical systems - lighting & power 684 gsf 5.00 3,420 SUBTOTAL \$3,42	\$3,420	Electrical systems - lighting & power SUBTOTAL SUBTOTAL \$3,420	26 - ELE	CTRICAL						
SUBTOTAL \$3,42	\$3,420	SUBTOTAL \$3,420 TOTAL -ELECTRICAL \$	260000							
		TOTAL -ELECTRICAL \$			684	gsf	5.00	3,420		
	\$:			SUBTOTAL					\$3,420	
TOTAL -ELECTRICAL				ELECTRICAL						\$:



DESCRIPTION

9-Dec-22

GFA
SUB
TOTAL

DESCRIPTIO	U.N	QIY	UNIT	COST	COST	TOTAL	COST
F DECK - OP	PTION 4						
	Shade Sail Structure - Roof Dec	ck					
	TOTAL GROSS FLOOR AREA (GFA)					sf	
02 - EXIS	STING CONDITIONS						
024000	DEMOLITION						
	<u>Interior Demolition</u> Demo/Prep for new posts - includes protection	2	loc	750.00	1.500		
	SUBTOTAL	_	ioc	/50.00	1,500	1,500	
						1,500	
TOTAL - I	MASONRY						\$
05 - MET.	ALS						
051200	STRUCTURAL STEEL FRAMING						
	Roof Construction Structural steel posts/includes modification and prep for connections	2	ea	4,500.00	9,000		
	SUBTOTAL	2	еа	4,500.00	9,000	9,000	
						9,000	
TOTAL - I	METALS						\$9
o7 - THEI	RMAL AND MOISTURE PROTECTION						
070002	ROOFING AND FLASHING						
	Roof Coverings						
	Roofing						
	Miscellaneous roof patching	1	ls	5,000.00	5,000		
	SUBTOTAL					5,000	
TOTAL -	THERMAL AND MOISTURE PROTECTION						\$5
13 - SPEC	CIAL CONSTRUCTION						
130000	SHADE SAIL						
	Shade sail				FFE	:	
	SUBTOTAL					-	
TOTAL -	FURNISHINGS						
26 - ELEC	CTRICAL.						
260000							
	Electrical systems - lighting & power	1	ls	3,500.00	3,500		
	SUBTOTAL					\$3,500	
TOTAL -H	ELECTRICAL						\$3
TOTAL D	OOF DECK - OPTION 4		•		•		\$19
IOIALK	OUT DECK - OF HOW 4						\$1



9-Dec-22

CONSTRUCTION COST SUMMARY IN CSI FORMAT

VESTIBULESubtotal Total

	Duototut	10141
VESTIBULE		
DIV. 2 EXISTING CONDITIONS		\$7,500
024100 Demolition	\$7,500	
013280 Haz-Mat Abatement	\$ 0	
DIV. 3 CONCRETE		\$16,863
033000 Cast In Place Concrete	\$16,863	
DIV. 4 MASONRY		\$4,800
044000 Masonry	\$4,800	
DIV. 5 METALS		\$1,000
050001 Metal Fabrications	\$1,000	
051200 Structural Steel Framing	\$ 0	
053100 Steel Decking	\$o	
DIV. 6 WOODS, PLASTICS & COMPOSITES		\$16,208
061000 Rough Carpentry	\$14,768	
064000 Architectural Woodwork	\$1,440	
DIV. 7 THERMAL & MOISTURE PROTECTION		\$20,644
070001 Waterproofing/Dampproofing/Caulking	\$5,195	
070002 Roofing & Flashing	\$5,590	
072100 Thermal Insulation	\$1,714	
072400 Exterior Gypsum/Stucco Finishes	\$ 0	
074210 Metal Wall Panels	\$ 0	
074690 Siding	\$8,145	
077200 Roof Specialties	\$ 0	
078100 Applied Fireproofing	\$o	
078400 Firestopping	\$ 0	
079513 Construction & Expansion Joints	\$ 0	
DIV. 8 DOORS & WINDOWS		\$47,050
084002 Glass & Glazing	\$47,050	
081113 Doors and Frames	\$ 0	
083100 Access Doors and Panels	\$ 0	
083323 Overhead Coiling Doors	\$0	
083400 Specialty Doors	\$0	
087100 Door Hardware	\$ 0	

Needham CATH SD Estimate 12.09.22

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PMC - Project Management Cost



9-Dec-22

CONSTRUCTION COST SUMMARY IN CSI FORMAT VESTIBULE

VESTIBULE 689000 Louvers and Vents \$0 DIV. 9 FINISHES \$13,978 090000 General Finishes \$10,000 090002 Tile \$0 090003 Acoustical Ceilings \$0 090009 Painting \$0 090009 Painting \$960 092090 GWB, Lath and Plastering \$3,018 096400 Wood Athletic Flooring \$0 096460 Wood Athletic Flooring \$0 096766 Fluid Applied Flooring \$0 096700 Wallcoverings/FRP \$0 097200 Wallcoverings/FRP \$0 098414 Acoustic Panels \$0 DIV to SPECIALTIES \$0 100000 Miscellaneous Specialties \$0 101100 Markerboards \$0 101200 Display Cases \$0 101200 Display Cases \$0 101200 Signage \$0 10213 Toilet Compartments \$0 102213 Toilet Accessories \$0 103000 Gas Fireplaces \$0 10400 Safety Specialties \$0 105113 Metal Lockers \$0		Subtotal	Total
DIV. 9 FINISHES \$10,000 090000 General Finishes \$10,000 090002 Tile \$0 090003 Acoustical Ceilings \$0 090005 Resilient Flooring \$0 090009 Painting \$960 092000 GWB, Lath and Plastering \$3,018 096400 Wood Flooring \$0 096400 Wood Athletic Flooring \$0 096400 Wood Athletic Flooring \$0 096800 Carpet \$0 097200 Wallcoverings/FRP \$0 098414 Acoustic Panels \$0 DIV 10 SPECIALTIES \$0 100000 Miscellaneous Specialties \$0 101200 Display Cases \$0 101200 Display Cases \$0 101200 Signage \$0 10213 Toilet Compartments \$0 102228 Operable Partition \$0 102233 Toilet Accessories \$0 103000 Gas Fireplaces \$0 104400 Safety Specialties \$0 105113 Metal Lockers \$0 115213 Projection Screens \$0 115213 Projection Screens <td>VESTIBULE</td> <td></td> <td></td>	VESTIBULE		
090000 General Finishes \$10,000 090002 Tile \$0 090003 Acoustical Ceilings \$0 090005 Resilient Flooring \$0 090000 Painting \$960 092900 GWB, Lath and Plastering \$3,018 096400 Wood Flooring \$0 096400 Wood Athletic Flooring \$0 096766 Fluid Applied Flooring \$0 096800 Carpet \$0 097200 Wallcoverings/FRP \$0 098414 Acoustic Panels \$0 DIV to SPECIALTIES \$0 100000 Miscellaneous Specialties \$0 101100 Markerboards \$0 101200 Display Cases \$0 101400 Signage \$0 102113 Toilet Compartments \$0 102228 Operable Partition \$0 102313 Toilet Accessories \$0 103000 Gas Fireplaces \$0 104400 Safety Specialties \$0 105113 Metal Lockers \$0 105113 Metal Lockers \$0 113100 Appliances \$0 114000 Foodservice Equipm	089000 Louvers and Vents	\$ 0	
090002 Tile \$0 090003 Acoustical Ceilings \$0 090005 Resilient Flooring \$0 090009 Painting \$960 092900 GWB, Lath and Plastering \$3,018 096400 Wood Flooring \$0 096460 Wood Athletic Flooring \$0 096766 Fluid Applied Flooring \$0 096800 Carpet \$0 097200 Wallcoverings/FRP \$0 098414 Acoustic Panels \$0 100000 Miscellaneous Specialties \$0 101100 Markerboards \$0 101200 Display Cases \$0 101400 Signage \$0 10213 Toilet Compartments \$0 102228 Operable Partition \$0 102313 Toilet Accessories \$0 103000 Gas Fireplaces \$0 10400 Safety Specialties \$0 105113 Metal Lockers \$0 DIV. 11 EQUIPMENT \$0 114000 Foodservice Equipment \$0 115213 Projection Screens \$0 116023 Athletic Equipment \$0 115215 PURNISHINGS	· · · · · · · · · · · · · · · · · · ·		\$13,978
090003 Acoustical Ceilings \$0 090005 Resilient Flooring \$0 090009 Painting \$960 092000 GWB, Lath and Plastering \$3,018 096400 Wood Flooring \$0 096460 Wood Athletic Flooring \$0 096766 Fluid Applied Flooring \$0 096800 Carpet \$0 097200 Wallcoverings/FRP \$0 097200 Wallcoverings/FRP \$0 098414 Acoustic Panels \$0 DIV 10 SPECIALTIES \$0 100000 Miscellaneous Specialties \$0 101100 Markerboards \$0 101200 Display Cases \$0 101201 Display Cases \$0 101213 Toilet Compartments \$0 102228 Operable Partition \$0 102228 Operable Partition \$0 103000 Gas Fireplaces \$0 104400 Safety Specialties \$0 105113 Metal Lockers \$0 DIV. 11 EQUIPMENT \$0 11300 Appliances \$0 114000 Foodservice Equipment \$0 115213 Projection Scre		\$10,000	
090005 Resilient Flooring \$0 090009 Painting \$960 092900 GWB, Lath and Plastering \$3,018 096400 Wood Flooring \$0 096460 Wood Athletic Flooring \$0 096766 Fluid Applied Flooring \$0 096800 Carpet \$0 097200 Wallcoverings/FRP \$0 098414 Acoustic Panels \$0 DIV 10 SPECIALTIES \$0 100000 Miscellaneous Specialties \$0 101100 Markerboards \$0 101200 Display Cases \$0 101200 Display Cases \$0 101200 Signage \$0 102113 Toilet Compartments \$0 102228 Operable Partition \$0 102228 Operable Partition \$0 103000 Gas Fireplaces \$0 104400 Safety Specialties \$0 105113 Metal Lockers \$0		\$ 0	
090009 Painting \$960 092900 GWB, Lath and Plastering \$3,018 096400 Wood Flooring \$0 096460 Wood Athletic Flooring \$0 096766 Fluid Applied Flooring \$0 096800 Carpet \$0 097200 Wallcoverings/FRP \$0 098414 Acoustic Panels \$0 DIV 10 SPECIALTIES \$0 100000 Miscellaneous Specialties \$0 101100 Markerboards \$0 101200 Display Cases \$0 101400 Signage \$0 102113 Toilet Compartments \$0 102228 Operable Partition \$0 103000 Gas Fireplaces \$0 103000 Gas Fireplaces \$0 104400 Safety Specialties \$0 105113 Metal Lockers \$0 DIV. 11 EQUIPMENT \$0 11300 Appliances \$0 114000 Foodservice Equipment \$0 115213 Projection Screens \$0 11623 Athletic Equipment \$0 115210 Miscellaneous Furnishings \$5,120	090003 Acoustical Ceilings	\$o	
092900 GWB, Lath and Plastering \$3,018 096400 Wood Flooring \$0 096460 Wood Athletic Flooring \$0 096766 Fluid Applied Flooring \$0 096800 Carpet \$0 097200 Wallcoverings/FRP \$0 098414 Acoustic Panels \$0 DIV 10 SPECIALTIES \$0 100000 Miscellaneous Specialties \$0 101100 Markerboards \$0 101200 Display Cases \$0 101400 Signage \$0 10213 Toilet Compartments \$0 102228 Operable Partition \$0 102813 Toilet Accessories \$0 103000 Gas Fireplaces \$0 104400 Safety Specialties \$0 105113 Metal Lockers \$0 DIV. 11 EQUIPMENT \$0 11300 Appliances \$0 114000 Foodservice Equipment \$0 115213 Projection Screens \$0 116623 Athletic Equipment \$0 DIV. 12 FURNISHINGS \$5,120 120000 Miscellaneous Furnishings \$0	090005 Resilient Flooring	\$o	
096400 Wood Athletic Flooring \$0 096766 Fluid Applied Flooring \$0 096800 Carpet \$0 097200 Wallcoverings/FRP \$0 098414 Acoustic Panels \$0 DIV 10 SPECIALTIES \$0 100000 Miscellaneous Specialties \$0 101100 Markerboards \$0 101200 Display Cases \$0 101200 Display Cases \$0 101213 Toilet Compartments \$0 102228 Operable Partition \$0 102813 Toilet Accessories \$0 103000 Gas Fireplaces \$0 104400 Safety Specialties \$0 105113 Metal Lockers \$0 DIV. 11 EQUIPMENT \$0 11300 Appliances \$0 114000 Foodservice Equipment \$0 115213 Projection Screens \$0 116623 Athletic Equipment \$0 DIV. 12 FURNISHINGS \$5,120 DIV. 12 <	· · · · · · · · · · · · · · · · · · ·	\$960	
096460 Wood Athletic Flooring \$0 096766 Fluid Applied Flooring \$0 096800 Carpet \$0 097200 Wallcoverings/FRP \$0 098414 Acoustic Panels \$0 DIV to SPECIALTIES \$0 100000 Miscellaneous Specialties \$0 101100 Markerboards \$0 101200 Display Cases \$0 101400 Signage \$0 102113 Toilet Compartments \$0 102228 Operable Partition \$0 102213 Toilet Accessories \$0 103000 Gas Fireplaces \$0 10400 Safety Specialties \$0 105113 Metal Lockers \$0 DIV. 11 EQUIPMENT \$0 113000 Appliances \$0 114000 Foodservice Equipment \$0 115213 Projection Screens \$0 116623 Athletic Equipment \$0 10000 Miscellaneous Furnishings \$0		\$3,018	
096766 Fluid Applied Flooring \$0 096800 Carpet \$0 097200 Wallcoverings/FRP \$0 098414 Acoustic Panels \$0 DIV to SPECIALTIES \$0 100000 Miscellaneous Specialties \$0 101100 Markerboards \$0 101200 Display Cases \$0 101200 Display Cases \$0 102113 Toilet Compartments \$0 102213 Toilet Accessories \$0 102228 Operable Partition \$0 102813 Toilet Accessories \$0 103000 Gas Fireplaces \$0 10400 Safety Specialties \$0 105113 Metal Lockers \$0 DIV. 11 EQUIPMENT \$0 11300 Appliances \$0 114000 Foodservice Equipment \$0 115213 Projection Screens \$0 116623 Athletic Equipment \$0 10000		\$o	
096800 Carpet \$0 097200 Wallcoverings/FRP \$0 098414 Acoustic Panels \$0 DIV 10 SPECIALTIES \$0 100000 Miscellaneous Specialties \$0 101100 Markerboards \$0 101200 Display Cases \$0 101400 Signage \$0 102113 Toilet Compartments \$0 102228 Operable Partition \$0 1022813 Toilet Accessories \$0 103000 Gas Fireplaces \$0 104400 Safety Specialties \$0 105113 Metal Lockers \$0 DIV. 11 EQUIPMENT \$0 11300 Appliances \$0 114000 Foodservice Equipment \$0 115213 Projection Screens \$0 116623 Athletic Equipment \$0 DIV. 12 FURNISHINGS \$5,120 DIV. 12 FURNISHINGS \$5,120	096460 Wood Athletic Flooring	\$o	
097200 Wallcoverings/FRP \$0 098414 Acoustic Panels \$0 DIV 10 SPECIALTIES \$0 100000 Miscellaneous Specialties \$0 101100 Markerboards \$0 101200 Display Cases \$0 101400 Signage \$0 102113 Toilet Compartments \$0 102228 Operable Partition \$0 102813 Toilet Accessories \$0 103000 Gas Fireplaces \$0 104400 Safety Specialties \$0 105113 Metal Lockers \$0 DIV. 11 EQUIPMENT \$0 110000 Miscellaneous Equipment \$0 113100 Appliances \$0 114000 Foodservice Equipment \$0 115213 Projection Screens \$0 116623 Athletic Equipment \$0 DIV. 12 FURNISHINGS \$5,120 DIV. 12 FURNISHINGS \$5,120 120000 Miscellaneous Furnishings \$0		*	
DIV 10 SPECIALTIES \$0 100000 Miscellaneous Specialties \$0 101100 Markerboards \$0 101200 Display Cases \$0 101400 Signage \$0 102113 Toilet Compartments \$0 102228 Operable Partition \$0 102813 Toilet Accessories \$0 103000 Gas Fireplaces \$0 104400 Safety Specialties \$0 105113 Metal Lockers \$0 DIV. 11 EQUIPMENT \$0 110000 Miscellaneous Equipment \$0 113100 Appliances \$0 114000 Foodservice Equipment \$0 115213 Projection Screens \$0 116623 Athletic Equipment \$0 DIV. 12 FURNISHINGS \$5,120 120000 Miscellaneous Furnishings \$0		\$ 0	
DIV 10 SPECIALTIES \$0 100000 Miscellaneous Specialties \$0 101100 Markerboards \$0 101200 Display Cases \$0 101400 Signage \$0 102113 Toilet Compartments \$0 102228 Operable Partition \$0 1022813 Toilet Accessories \$0 103000 Gas Fireplaces \$0 104400 Safety Specialties \$0 105113 Metal Lockers \$0 DIV. 11 EQUIPMENT \$0 110000 Miscellaneous Equipment \$0 113100 Appliances \$0 114000 Foodservice Equipment \$0 115213 Projection Screens \$0 116623 Athletic Equipment \$0 DIV. 12 FURNISHINGS \$5,120 DIV. 12 FURNISHINGS \$5,120		\$o	
100000 Miscellaneous Specialties \$0 101100 Markerboards \$0 101200 Display Cases \$0 101400 Signage \$0 102113 Toilet Compartments \$0 102228 Operable Partition \$0 102813 Toilet Accessories \$0 103000 Gas Fireplaces \$0 104400 Safety Specialties \$0 105113 Metal Lockers \$0 DIV. 11 EQUIPMENT \$0 110000 Miscellaneous Equipment \$0 113100 Appliances \$0 114000 Foodservice Equipment \$0 115213 Projection Screens \$0 116623 Athletic Equipment \$0 DIV. 12 FURNISHINGS \$5,120 DIV. 12 FURNISHINGS \$0 120000 Miscellaneous Furnishings \$0	098414 Acoustic Panels	\$ 0	
101100 Markerboards \$0 101200 Display Cases \$0 101400 Signage \$0 102113 Toilet Compartments \$0 102228 Operable Partition \$0 102813 Toilet Accessories \$0 103000 Gas Fireplaces \$0 104400 Safety Specialties \$0 105113 Metal Lockers \$0 DIV. 11 EQUIPMENT \$0 110000 Miscellaneous Equipment \$0 113100 Appliances \$0 114000 Foodservice Equipment \$0 115213 Projection Screens \$0 116623 Athletic Equipment \$0 DIV. 12 FURNISHINGS \$5,120 DIV. 12 FURNISHINGS \$0 120000 Miscellaneous Furnishings \$0	DIV 10 SPECIALTIES		\$0
101200 Display Cases \$0 101400 Signage \$0 102113 Toilet Compartments \$0 102228 Operable Partition \$0 102813 Toilet Accessories \$0 103000 Gas Fireplaces \$0 104400 Safety Specialties \$0 105113 Metal Lockers \$0 DIV. 11 EQUIPMENT \$0 110000 Miscellaneous Equipment \$0 113100 Appliances \$0 114000 Foodservice Equipment \$0 115213 Projection Screens \$0 11623 Athletic Equipment \$0 DIV. 12 FURNISHINGS \$5,120 120000 Miscellaneous Furnishings \$0	100000 Miscellaneous Specialties	\$o	
101400 Signage \$0 102113 Toilet Compartments \$0 102228 Operable Partition \$0 102813 Toilet Accessories \$0 103000 Gas Fireplaces \$0 104400 Safety Specialties \$0 105113 Metal Lockers \$0 DIV. 11 EQUIPMENT \$0 110000 Miscellaneous Equipment \$0 113100 Appliances \$0 114000 Foodservice Equipment \$0 115213 Projection Screens \$0 116623 Athletic Equipment \$0 DIV. 12 FURNISHINGS \$5,120 120000 Miscellaneous Furnishings \$0	101100 Markerboards	\$o	
102113 Toilet Compartments \$0 102228 Operable Partition \$0 102813 Toilet Accessories \$0 103000 Gas Fireplaces \$0 104400 Safety Specialties \$0 105113 Metal Lockers \$0 DIV. 11 EQUIPMENT \$0 110000 Miscellaneous Equipment \$0 113100 Appliances \$0 114000 Foodservice Equipment \$0 115213 Projection Screens \$0 116623 Athletic Equipment \$0 DIV. 12 FURNISHINGS \$5,120 120000 Miscellaneous Furnishings \$0	101200 Display Cases	\$o	
102228 Operable Partition \$0 102813 Toilet Accessories \$0 103000 Gas Fireplaces \$0 104400 Safety Specialties \$0 105113 Metal Lockers \$0 DIV. 11 EQUIPMENT \$0 110000 Miscellaneous Equipment \$0 113100 Appliances \$0 114000 Foodservice Equipment \$0 115213 Projection Screens \$0 116623 Athletic Equipment \$0 DIV. 12 FURNISHINGS \$5,120 120000 Miscellaneous Furnishings \$0	101400 Signage	\$o	
102813 Toilet Accessories \$0 103000 Gas Fireplaces \$0 104400 Safety Specialties \$0 105113 Metal Lockers \$0 DIV. 11 EQUIPMENT \$0 110000 Miscellaneous Equipment \$0 113100 Appliances \$0 114000 Foodservice Equipment \$0 115213 Projection Screens \$0 116623 Athletic Equipment \$0 DIV. 12 FURNISHINGS \$5,120 120000 Miscellaneous Furnishings \$0	102113 Toilet Compartments	\$o	
103000 Gas Fireplaces \$0 104400 Safety Specialties \$0 105113 Metal Lockers \$0 DIV. 11 EQUIPMENT 110000 Miscellaneous Equipment \$0 113100 Appliances \$0 114000 Foodservice Equipment \$0 115213 Projection Screens \$0 116623 Athletic Equipment \$0 DIV. 12 FURNISHINGS \$5,120 120000 Miscellaneous Furnishings \$0	102228 Operable Partition	\$o	
104400 Safety Specialties \$0 105113 Metal Lockers \$0 DIV. 11 EQUIPMENT \$0 110000 Miscellaneous Equipment \$0 113100 Appliances \$0 114000 Foodservice Equipment \$0 115213 Projection Screens \$0 116623 Athletic Equipment \$0 DIV. 12 FURNISHINGS \$5,120 120000 Miscellaneous Furnishings \$0	102813 Toilet Accessories	\$o	
105113 Metal Lockers \$0 DIV. 11 EQUIPMENT \$0 110000 Miscellaneous Equipment \$0 113100 Appliances \$0 114000 Foodservice Equipment \$0 115213 Projection Screens \$0 116623 Athletic Equipment \$0 DIV. 12 FURNISHINGS \$5,120 120000 Miscellaneous Furnishings \$0	103000 Gas Fireplaces	\$o	
DIV. 11 EQUIPMENT \$0 110000 Miscellaneous Equipment \$0 113100 Appliances \$0 114000 Foodservice Equipment \$0 115213 Projection Screens \$0 116623 Athletic Equipment \$0 DIV. 12 FURNISHINGS \$5,120 120000 Miscellaneous Furnishings \$0	104400 Safety Specialties	\$o	
110000 Miscellaneous Equipment \$0 113100 Appliances \$0 114000 Foodservice Equipment \$0 115213 Projection Screens \$0 116623 Athletic Equipment \$0 DIV. 12 FURNISHINGS \$5,120 120000 Miscellaneous Furnishings \$0	105113 Metal Lockers	\$ 0	
113100 Appliances \$0 114000 Foodservice Equipment \$0 115213 Projection Screens \$0 116623 Athletic Equipment \$0 DIV. 12 FURNISHINGS \$5,120 120000 Miscellaneous Furnishings \$0	DIV. 11 EQUIPMENT		\$0
113100 Appliances \$0 114000 Foodservice Equipment \$0 115213 Projection Screens \$0 116623 Athletic Equipment \$0 DIV. 12 FURNISHINGS \$5,120 120000 Miscellaneous Furnishings \$0		\$ 0	
115213 Projection Screens \$0 116623 Athletic Equipment \$0 DIV. 12 FURNISHINGS \$5,120 120000 Miscellaneous Furnishings \$0		\$o	
116623 Athletic Equipment \$0 DIV. 12 FURNISHINGS \$5,120 120000 Miscellaneous Furnishings \$0	114000 Foodservice Equipment	\$o	
116623 Athletic Equipment \$0 DIV. 12 FURNISHINGS \$5,120 120000 Miscellaneous Furnishings \$0	115213 Projection Screens	\$o	
120000 Miscellaneous Furnishings \$0		\$ 0	
120000 Miscellaneous Furnishings \$0	DIV. 12 FURNISHINGS		\$5,120
		\$o	. 07

124813 Entrance Floor Mats and Frames

\$5,120

PMC - Project Management Cost



Needham Center at the Heights Space Utilization Study #3480 Needham, MA Schematic Design Estimate 9-Dec-22

CONSTRUCTION COST SUMMARY IN CSI FORMAT						
	VE	STIBULE				
	Subtotal	Total				
VESTIBULE						
DIV. 13 SPECIAL CONSTRUCTION		\$0				
130000 Greenhouses	\$	80				
130000 Trellis		80				
130000 Shade Sail	\$	80				
DIV. 14 CONVEYING SYSTEMS		\$0				
140000 Elevators	\$	80				
DIV. 21 FIRE SUPPRESSION		\$2,000				
210000 Fire Suppression	\$2,00	·				
DIV.22 PLUMBING		\$0				
220000 Plumbing	\$	80				
DIV. 23 HVAC		\$5,500				
230000 HVAC	\$5,50					
	100-					
DIV.26 ELECTRICAL		\$3,500				
260000 Electrical	\$3,50	00				
DIV. 31 EARTHWORK		\$9,000				
310000 Earthwork	\$9,00	00				
DIV. 32 EXTERIOR IMPROVEMENTS		\$10,000				
323100 Site Improvements	\$10,00	·				
SUBTOTAL DIRECT (TRADE) COST		\$163,163				
ESCALATION	6.0%	\$9,790				
DESIGN AND PRICING CONTINGENCY	10.0%	\$16,316				
SUB-TOTAL		\$189,269				
GENERAL CONDITIONS	12.5%	\$23,659				
GENERAL REQUIREMENTS	3.5%	\$6,624				
PHASING PREMIUM	5.0%	\$9,463				
BONDS	0.75%	\$1,420				

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Needham CATH SD Estimate 12.09.22



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CONSTRUCTION COST SUMMARY IN CSI FORMAT

VESTIBULESubtotal Total

	-	
VESTIBULE		
INSURANCE PERMIT - \$10.00 per \$1,000	1.40%	\$2,650 \$1,893
OVERHEAD + PROFIT	10.0%	\$23,309
TOTAL OF ALL CONSTRUCTION		\$258.287

PMC - Project Management Cost

GFA



Needham Center at the Heights Space Utilization Study #3480 Needham, MA Schematic Design Estimate

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64

EST'D TOTAL UNIT SUBDESCRIPTION оту UNIT COST COST TOTAL COST VESTIBULE Vestibule 64 TOTAL GROSS FLOOR AREA (GFA) 64 sf 02 - EXISTING CONDITIONS 024000 DEMOLITION Interior Demolition Demo/Prep for new addition - includes protection ls 7,500.00 7,500 7,500 TOTAL - MASONRY \$7,500 03 - CONCRETE 033000 CONCRETE Strip footings; 2'-0" x 1'-0" - Exterior sf Formwork 48 20.00 960 Re-bar 138 lbs 3.00 414 Concrete material; 3,000 psi 22 2 cy 150.00 300 23 Placing concrete 2 250.00 500 cy 24 Foundation wall; 12" thick Formwork 168 sf 24.00 4,032 Re-bar lbs 270 3.00 810 Concrete material; 3,000 psi 3 сy 150.00 450 Placing concrete 3 cy 250.00 750 Form shelf 24 lf 10.00 240 Miscellaneous Dewatering - localized ls 5,000.00 5,000 32 Lowest Floor Construction New Slab on grade, 5" thick 64 Mesh Re-bar 15% lap sf 185 74 2.50 35 Concrete -5" thick; 4,000 psi сy 150.00 150 Place & finish including control joints 2.880 64 sf 45.00 Miscellaneous 38 Moisture Mitigation; admixture assumed not required 39 Vapor barrier 64 sf 3.00 SUBTOTAL 16,863 TOTAL - CONCRETE \$16,863 43 44 45 04 - MASONRY 46 47 040000 MASONRY 48 **Exterior Walls** Precast base 48 100.00 4,800 SUBTOTAL 4,800 TOTAL - MASONRY \$4,800 54 55 05 - METALS METAL FABRICATIONS 050001

Exterior Walls



9-Dec-22

GFA

DESCRIPTION	ON	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
STIBULE		•					
	Misc. metals - framing package	1	ls	1,000.00	1,000		
	SUBTOTAL					1,000	
051200	STRUCTURAL STEEL FRAMING						
	Roof Construction						
	Structural steel framing		tns	10,000.00	wood framed		
	SUBTOTAL					-	
053100	STEEL DECKING						
	<u>Roof Construction</u>						
	Metal floor decking; 2"		sf	15.00	wood framed		
	SUBTOTAL					-	
TOTAL -	METALS						\$1,0
06 - WOO	DD, PLASTICS AND COMPOSITES						
061000	DOUGH CADDENITOV						
061000	ROUGH CARPENTRY Floor/Roof Construction						
	Framing for structure - materials	64	gsf	50.00	3,200		
	Framing for structure - materials Framing for structure - labor		cdys	2,280.00	9,120		
		4					
	Miscellaneous blocking/carpentry	64	gsf	5.00	320		
	Exterior Walls Exterior framing				w/Div o		
	_	-	1.6		w/ Div 9		
	Window sills	32	lf	15.00	480		
	Wood blocking at openings, outprior		1.6	0.5-			
	Wood blocking at openings - exterior	176	lf	8.00	1,408		
	Roof Coverings		1.0				
	Rough blocking at roofing	24	lf	10.00	240		
	SUBTOTAL					14,768	
064100	ARCHITECTURAL WOODWORK						
	Specialties / Millwork						
	Window sills/stool/aprons - solid surface	32	lf	45.00	1,440		
	SUBTOTAL	J <u>-</u>	••	70.50	-,	1,440	
						711-	
TOTAL -	WOOD, PLASTICS AND COMPOSITES						\$16,
07 - THE	RMAL AND MOISTURE PROTECTION						
	WATER BROOFING / DAMPING OFFING / CANTAGING						
070002	WATERPROOFING / DAMPPROOFING / CAULKING Foundations						
	Dampproofing foundation wall and footing	108	sf	3.50	378		
	Drainage board at foundation wall	84	sf	5.00	3/6 420		
	Exterior Walls	64	51	5.00	420		
	2"Composite sheathing board w/integral weather resistance barrier	91	sf	11.00	1,001		
	Miscellaneous sealants to closure	91	sf	2.50	228		
	Windows	91	31	2.30	220		
	Air barrier/flashing at storefront & windows	176	lf	9.00	1,584		
	Backer rod & double sealant	176	lf	9.00	1,584		
	SUBTOTAL	1/0	11	9.00	1,504	5,195	
	00101111					5,195	
070002	ROOFING AND FLASHING						
	Roof Coverings						
	Membrane Roof						
	Roofing complete; TPO	64	sf	45.00	2,880		
	0		01	75.50	_,000		

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Needham Center at the Heights Space Utilization Study #3480 Needham, MA Schematic Design Estimate

9-Dec-22

				UNIT	EST'D	SUB	TOTAL
DESCRIPT	ION	QTY	UNIT	COST	COST	TOTAL	COST
TIBULE							
	Miscellaneous						
	Tie new roof into adjacent wall	8	lf	125.00	1,000		
	Miscellaneous sealants & flashings	1	ls	750.00	750		
	Parapet cap & fascia	24	lf	30.00	720		
	Misc. Flashing						
	Flashing at base of exterior wall	24	lf	10.00	240		
	SUBTOTAL					5,590	
072100	THERMAL INSULATION						
	Foundations						
	Insulation to foundation walls; 2" thick - exterior	84	sf	3.50	294		
	Insulation strip at foundation wall step at exterior wall	24	lf	3.50	84		
	Lowest Floor Construction						
	Rigid insulation slab on grade; 2" thick	64	sf	3.00	192		
	Exterior Walls						
	Insulation - 2" composite sheathing board + batt insulation				w/ GWB		
	Windows						
	Foam insulation at window framing cavities	176	lf	6.50	1,144		
	SUBTOTAL					1,714	
074690	SIDING						
	Exterior Walls						
	Cement fiberboard siding	91	sf	75.00	6,825		
	Cornice	24	lf	55.00	1,320		
	SUBTOTAL					8,145	
078100	FIREPROOFING						
	Roof Construction						
	Spray-applied fireproofing		sf	3.25	NR		
	SUBTOTAL					-	
079513	EXPANSION JOINTS						
	Floor Construction						
	Allowance for expansion joints	1	ls	1,500.00	NR		
	SUBTOTAL					-	
momax	THE PART OF THE PROPERTY OF THE PART OF TH						
TOTAL -	THERMAL AND MOISTURE PROTECTION						
08 - OPI	NINGS						
00 011	2.4.105						
084002	GLASS & GLAZING						
	Windows						
	New windows	224	sf	130.00	29,120		
	Exterior Doors						
	Glazed aluminum entrance doors including frame and hardware; single - assumed at main entrance	1	ea	5,000.00	5,000		
	Interior Construction						
	Interior storefront	63	sf	110.00	6,930		
	Glazed aluminum interior doors including frame and hardware; single	1	ea	6,000.00	6,000		
	SUBTOTAL					47,050	
TOTAL -	OPENINGS						



9-Dec-22

	ON	QTY	UNIT	COST	COST	TOTAL	COST
TIBULE				_			
090000	FINISHES						
	Existing Areas						
	Patch affected floors/walls/ceilings within existing building	1	ls	10,000.00	10,000		
	SUBTOTAL					10,000	
090007	PAINTING						
	Interior Finishes Prep/Paint new walls/ceilings	6.4	sf	15.00	260		
	SUBTOTAL	64	51	15.00	960	960	
	SUBTOTAL					900	
092900	GWB						
-,-,	Interior Construction						
	New partitions - GWB/batt insulation on exterior walls	139	sf	12.50	1,738		
	GWB ceiling	64	sf	20.00	1,280		
	SUBTOTAL					3,018	
097200	WALLCOVERINGS						
	Wall Finishes						
	Vinyl wallcoverings/Graphics			assun	ned not required		
	SUBTOTAL					-	
TOTAL	FINISHES						\$
TOTAL							
12 - FUR!	NISHINGS						· <u> </u>
124813	ENTRANCE MATS						
10	Entrance mats - recessed	64	sf	80.00	5,120		
	SUBTOTAL	~4		55.56	3,120	5,120	
TOTAL -	FURNISHINGS						
21 - FIRE	SUPPRESSION						
210000	FIRE PROTECTION						
210000							
		4	le	2 000 00	2 000		
	Fire Protection System SURTOTAL	1	ls	2,000.00	2,000	2.000	
	SUBTOTAL	1	ls	2,000.00	2,000	2,000	
TOTAL -			ls	2,000.00	2,000	2,000	
	SUBTOTAL FIRE SUPPRESSION	1	ls	2,000.00	2,000	2,000	
707AL -	SUBTOTAL FIRE SUPPRESSION	1	ls	2,000.00	2,000	2,000	
	SUBTOTAL FIRE SUPPRESSION	1	ls	2,000.00	2,000	2,000	
23 - HVA	SUBTOTAL FIRE SUPPRESSION C	1	ls	2,000.00 5,500.00	2,000	2,000	
23 - HVA	SUBTOTAL FIRE SUPPRESSION C HVAC					2,000	
23 - HVA 230000	SUBTOTAL FIRE SUPPRESSION C HVAC HVAC HVAC systems SUBTOTAL						;
23 - HVA	SUBTOTAL FIRE SUPPRESSION C HVAC HVAC HVAC systems SUBTOTAL						;
23 - HVA 230000	SUBTOTAL FIRE SUPPRESSION C HVAC HVAC systems SUBTOTAL HVAC						;
23 - HVA 230000 TOTAL -	SUBTOTAL FIRE SUPPRESSION C HVAC HVAC systems SUBTOTAL HVAC						;
23 - HVA 230000	SUBTOTAL FIRE SUPPRESSION C HVAC HVAC systems SUBTOTAL HVAC CTRICAL ELECTRICAL	1	ls	5,500.00	5,500		;
23 - HVA 230000 TOTAL -	SUBTOTAL FIRE SUPPRESSION C HVAC HVAC systems SUBTOTAL HVAC CTRICAL ELECTRICAL ELECTRICAL Electrical systems					5,500	
23 - HVA 230000 TOTAL -	SUBTOTAL FIRE SUPPRESSION C HVAC HVAC systems SUBTOTAL HVAC CTRICAL ELECTRICAL	1	ls	5,500.00	5,500		\$
23 - HVA 230000 <i>TOTAL</i>	SUBTOTAL FIRE SUPPRESSION C HVAC HVAC systems SUBTOTAL HVAC CTRICAL ELECTRICAL ELECTRICAL Electrical systems	1	ls	5,500.00	5,500	5,500	

APPENDIX

COST ESTIMATE - DECEMBER 9, 2022



Needham Center at the Heights Space Utilization Study #3480 Needham, MA Schematic Design Estimate

9-Dec-22

					UNIT	EST'D	SUB	TOTAL
DESCRIPTION	ON	QTY		UNIT	COST	COST	TOTAL	COST
ESTIBULE								
312000	EARTH WORK							
Ü	Foundations							
	Strip footings & foundation wall							
	Excavation/Prep for slab/Backfill/Haul & dispose soil		1	ls	7,500.00	7,500		
	Erosion control		1	ls	1,500.00	1,500		
	Rock removal				assur	ned not required		
	Ledge/Rock removal allowance							
	SUBTOTAL						9,00	0
TOTAL, I	DIVISION 31 - EARTHWORK							
32	SITE IMPROVEMENTS							
		<u> </u>						
320000	SITE IMPROVEMENTS							
	Repair existing sidewalks/landscaping		1	ls	10,000.00	10,000		
	SUBTOTAL						10,000	0
TOTAL, I	DIVISION 31 - EARTHWORK							\$



9-Dec-22

CONSTRUCTION				
	OPTIC Subtotal	DN 1 Total	OPTIO Subtotal	N 2 Total
ACTATION AND BREAK ROOM				
DIV. 2 EXISTING CONDITIONS		\$4,725		\$2,250
024100 Demolition	\$4,725	Ψ4,/23	\$2,250	Ψ2,230
013280 Haz-Mat Abatement	\$o		\$o	
DIV. 3 CONCRETE		\$1,604		\$375
033000 Cast In Place Concrete	\$1,604	+=,== +	\$375	+3/3
DIV. 4 MASONRY		\$0		\$0
044000 Masonry	\$ 0		\$ 0	
DIV. 5 METALS		\$0		\$0
050001 Metal Fabrications	\$ 0		\$ 0	
051200 Structural Steel Framing	\$ 0		\$ 0	
053100 Steel Decking	\$ 0		\$ 0	
DIV. 6 WOODS, PLASTICS & COMPOSITES		\$9,150		\$8,150
061000 Rough Carpentry 064000 Architectural Woodwork	\$1,500 \$7,650		\$500 \$7,650	
004000 Architectural Woodwork	φ/,050		φ/,050	
DIV. 7 THERMAL & MOISTURE PROTECTION		\$500	.	\$500
070001 Waterproofing/Dampproofing/Caulking	\$500		\$500	
070002 Roofing & Flashing	\$0		\$0 ***	
072100 Thermal Insulation	\$0		\$o	
072400 Exterior Gypsum/Stucco Finishes	\$0		\$o	
074210 Metal Wall Panels	\$0		\$o	
074690 Siding	\$0		\$0 ***	
077200 Roof Specialties	\$0		\$0 \$0	
078100 Applied Fireproofing	\$0		\$0 \$0	
078400 Firestopping 079513 Construction & Expansion Joints	\$0 \$0		\$0 \$0	
DIV. 8 DOORS & WINDOWS		\$6,500		\$2,300
084002 Glass & Glazing	\$o	φυ,300	\$o	φ2,300
081113 Doors and Frames	\$3,450		\$1,150	
083100 Access Doors and Panels	\$350		\$250	
083323 Overhead Coiling Doors	φ330 \$0		\$o	
083400 Specialty Doors	\$o		\$o	
087100 Door Hardware	\$2,700		\$900	
089000 Louvers and Vents	\$o		\$0	
DIV. 9 FINISHES		\$25,091		\$8,576
090000 General Finishes	\$o		\$o	
090002 Tile	\$o		\$o	
090003 Acoustical Ceilings	\$4,433		\$2,775	
090005 Resilient Flooring	\$3,463		\$1,475	
090009 Painting	\$2,104		\$1,763	
092900 GWB, Lath and Plastering	\$15,091		\$2,563	
096400 Wood Flooring	\$o		\$o	
096460 Wood Athletic Flooring	\$o		\$ 0	
096766 Fluid Applied Flooring	\$o		\$o	
096800 Carpet	\$o		\$o	
097200 Wallcoverings/FRP	\$ 0		\$ 0	
098414 Acoustic Panels	\$ 0		\$ 0	
DIV 10 SPECIALTIES		\$0		\$0
100000 Miscellaneous Specialties	\$o		\$o	
101100 Markerboards	\$o		\$o	
101200 Display Cases	\$o		\$ 0	
101400 Signage	\$o		\$o	
102113 Toilet Compartments	\$ 0		\$ 0	
Needham CATH SD Estimate 12.09.22	Page 38		PMC - Project Ma	nagement Cost

PMC - Project Management Cost

APPENDIX



Needham Center at the Heights Space Utilization Study #3480 Needham, MA Schematic Design Estimate

9-Dec-22

	OPTIO	N 1	OPTION	I 2
	Subtotal	Total	Subtotal	Total
	\$o		\$ 0	
	\$0		\$0	
		\$6,700		\$6,70
	,			
	фU		\$ О	
		\$0		\$
	\$o		\$ 0	
		\$0		\$
	\$ 0		\$o	
	\$ 0		\$o	
	\$o		\$ 0	
		\$0		\$
	\$o		\$o	
		\$ 2.500		\$1,50
	\$2,500	φ2,300	\$1.500	φ1,30
	Ψ=,500		Ψ1,300	
		\$13,000		\$13,00
	\$13,000		\$13,000	
		\$19,050		\$6,20
	\$19,050	, .	\$6,200	
		\$0.204		\$3,56
	\$9,294	Ψ9,=94	\$3,563	Ψ3,30
	\$0	\$0	\$0	\$
	φΟ		φυ	
		\$0		\$
	\$o		\$ 0	
		\$98,114		\$53,11
6.0%		\$5.887		\$3,18
				\$5,3
				\$61,61
12.5%		\$14,227		\$7,70
3.5%		\$3,983		\$2,1
5.0%		\$5,691		\$3,0
0.75%		\$854		\$40
1.40%		\$1,593		\$86
		\$1,138		\$6
		Ψ1,130		
	12.5% 3.5% 5.0% 0.75%	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$	Subtotal Total Subtotal

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Needham CATH SD Estimate 12.09.22



9-Dec-22

CONSTRUCTION COST SUMMARY IN CSI FORMAT								
	OPTION 1			ON 2				
	Subtotal Total			Total				

LACTATION AND BREAK ROOM

TOTAL OF ALL CONSTRUCTION \$155,314 \$84,080



Needham Center at the Heights Space Utilization Study #3480 Needham, MA Schematic Design Estimate

9-Dec-22

DESCRIPTI	ON	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
ATION ROO	OM & BREAK ROOM - OPTION 1						
	Lactation	n Room		70			
	Storage			135			
	Breat	k Room		140			
	TOTAL GROSS FLOOR AREA (GFA)				345	sf	
02 - EXIS	TING CONDITIONS						
024000	DEMOLITION						
	Interior Demolition						
	Remove/Dispose existing finishes	345	sf	5.00	1,725		
	Sawcut/Trench for plumbing waste	1	ls	1,500.00	1,500		
	Protection/Temp partitions to isolate space	1	ls	1,500.00	1,500		
	SUBTOTAL					4,725	
TOTAL -	MASONRY						
03 - CON	CRETE						
000000	CONCRETE						
033000	Interior Construction						
	Floor patching/Prep - plumbing waste	1	ls	1,000.00	1,000		
	Minor floor prep	345	sf	1.75	604		
		010		-,0			
	SUBTOTAL					1,604	
						1,604	
TOTAL -	SUBTOTAL CONCRETE					1,604	
TOTAL -						1,604	
						1,604	
	CONCRETE					1,604	
06 - WOO	CONCRETE DD, PLASTICS AND COMPOSITES					1,604	
06 - WOO	CONCRETE DD, PLASTICS AND COMPOSITES ROUGH CARPENTRY	1	ls	1,500.00	1,500	1,604	
06 - WOO	CONCRETE DD, PLASTICS AND COMPOSITES ROUGH CARPENTRY Interior Construction	1	ls	1,500.00	1,500		
06 - WOO	DD, PLASTICS AND COMPOSITES ROUGH CARPENTRY Interior Construction Misc carpentry/Blocking SUBTOTAL	1	ls	1,500.00	1,500	1,604	
06 - WOO	DD, PLASTICS AND COMPOSITES ROUGH CARPENTRY Interior Construction Misc carpentry/Blocking SUBTOTAL ARCHITECTURAL WOODWORK	1	ls	1,500.00	1,500		
06 - WOO	DD, PLASTICS AND COMPOSITES ROUGH CARPENTRY Interior Construction Misc carpentry/Blocking SUBTOTAL ARCHITECTURAL WOODWORK Interior Construction						
06 - WOO	CONCRETE DD, PLASTICS AND COMPOSITES ROUGH CARPENTRY Interior Construction Misc carpentry/Blocking SUBTOTAL ARCHITECTURAL WOODWORK Interior Construction Cabinetry/Built-ins - Break Room	1	ls	1,500.00	7,650	1,500	
06 - WOO	CONCRETE DD, PLASTICS AND COMPOSITES ROUGH CARPENTRY Interior Construction Misc carpentry/Blocking SUBTOTAL ARCHITECTURAL WOODWORK Interior Construction Cabinetry/Built-ins - Break Room Cabinetry/Built-ins - Lactation Room					1,500	
06 - WOO	CONCRETE DD, PLASTICS AND COMPOSITES ROUGH CARPENTRY Interior Construction Misc carpentry/Blocking SUBTOTAL ARCHITECTURAL WOODWORK Interior Construction Cabinetry/Built-ins - Break Room				7,650	1,500	
06 - W00 061000 064100	CONCRETE DD, PLASTICS AND COMPOSITES ROUGH CARPENTRY Interior Construction Misc carpentry/Blocking SUBTOTAL ARCHITECTURAL WOODWORK Interior Construction Cabinetry/Built-ins - Break Room Cabinetry/Built-ins - Lactation Room				7,650	1,500	
06 - W00 061000 064100	CONCRETE DD, PLASTICS AND COMPOSITES ROUGH CARPENTRY Interior Construction Mise carpentry/Blocking SUBTOTAL ARCHITECTURAL WOODWORK Interior Construction Cabinetry/Built-ins - Break Room Cabinetry/Built-ins - Lactation Room SUBTOTAL				7,650	1,500	
06 - WOO 061000 064100	CONCRETE DD, PLASTICS AND COMPOSITES ROUGH CARPENTRY Interior Construction Mise carpentry/Blocking SUBTOTAL ARCHITECTURAL WOODWORK Interior Construction Cabinetry/Built-ins - Break Room Cabinetry/Built-ins - Lactation Room SUBTOTAL				7,650	1,500	
06 - WOO 061000 064100	CONCRETE DD, PLASTICS AND COMPOSITES ROUGH CARPENTRY Interior Construction Misc carpentry/Blocking SUBTOTAL ARCHITECTURAL WOODWORK Interior Construction Cabinetry/Built-ins - Break Room Cabinetry/Built-ins - Lactation Room SUBTOTAL WOOD, PLASTICS AND COMPOSITES				7,650	1,500	
06 - WOO 061000 064100 TOTAL -	CONCRETE DD, PLASTICS AND COMPOSITES ROUGH CARPENTRY Interior Construction Misc carpentry/Blocking SUBTOTAL ARCHITECTURAL WOODWORK Interior Construction Cabinetry/Built-ins - Break Room Cabinetry/Built-ins - Lactation Room SUBTOTAL WOOD, PLASTICS AND COMPOSITES RMAL AND MOISTURE PROTECTION				7,650	1,500	
06 - WOO 061000 064100 TOTAL -	CONCRETE DD, PLASTICS AND COMPOSITES ROUGH CARPENTRY Interior Construction Misc carpentry/Blocking SUBTOTAL ARCHITECTURAL WOODWORK Interior Construction Cabinetry/Built-ins - Break Room Cabinetry/Built-ins - Lactation Room SUBTOTAL WOOD, PLASTICS AND COMPOSITES RMAL AND MOISTURE PROTECTION WATERPROOFING / DAMPPROOFING / CAULKING				7,650	1,500	
06 - WOO 061000 064100 TOTAL -	CONCRETE DD, PLASTICS AND COMPOSITES ROUGH CARPENTRY Interior Construction Misc carpentry/Blocking SUBTOTAL ARCHITECTURAL WOODWORK Interior Construction Cabinetry/Built-ins - Break Room Cabinetry/Built-ins - Lactation Room SUBTOTAL WOOD, PLASTICS AND COMPOSITES RMAL AND MOISTURE PROTECTION WATERPROOFING / DAMPPROOFING / CAULKING Interior Construction	9	lf	850.00	7,650 wall hung sink	1,500	
06 - WOO 061000 064100 TOTAL - 07 - THE 070002	CONCRETE DD, PLASTICS AND COMPOSITES ROUGH CARPENTRY Interior Construction Misc carpentry/Blocking SUBTOTAL ARCHITECTURAL WOODWORK Interior Construction Cabinetry/Built-ins - Break Room Cabinetry/Built-ins - Lactation Room SUBTOTAL WOOD, PLASTICS AND COMPOSITES RMAL AND MOISTURE PROTECTION WATERPROOFING / DAMPPROOFING / CAULKING Interior Construction Caulking - dissimilar materials	9	lf	850.00	7,650 wall hung sink	1,500	

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TOTAL

GFA

SUB

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UNIT

	DESCRIPTI	ON	QTY	UNIT	COST		SUB TOTAL	COST
	LACTATION RO	OM & BREAK ROOM - OPTION 1						
60		GLASS & GLAZING						
61	·	Interior Construction						
62		Glazing sidelights				NR		
63		SUBTOTAL					-	
64								
65	081113	DOORS AND FRAMES						
66 67		Interior						
68		<u>Doors/Frames/Hardware</u> Doors/HM frames - single	3	ea	1,150.00	3,450		
69		Doors/HM frames - double	3	ea	2,000.00	3,430 NR		
70		Premium for glass in doors		ea	500.00	NR		
71		Frames, sidelights		loc	900.00	NR		
72		SUBTOTAL					3,450	
73								
74	083100	ACCESS DOORS AND FRAMES						
75		<u>Interior Doors</u>						
76		Access doors	1	ls	350.00	350		
77 78		SUBTOTAL					350	
79	087100	DOOR HARDWARE						
80	00/100	Interior Doors						
81		Hardware to interior doors	3	set	900.00	2,700		
82		SUBTOTAL					2,700	
83 84	TOTAL	OPENINGS						A C
85	TOTAL -	OPENINGS						\$6,500
86								
87	09 - FIN	SHES						
88								
89	090003	ACT						
90		Interior Finishes						
91 92		New ACT ceilings	345	sf	8.50	2,933		
93		Open/Close/Patch existing ceilings	1	ls	1,500.00	1,500		
94		SUBTOTAL					4,433	
95	090005	RESILIENT FLOORS						
96		Interior Finishes						
97		Resilient flooring - VCT	345	sf	7.50	2,588		
98		Resilient base	175	lf	5.00	875		
99		SUBTOTAL					3,463	
100		DAINTING						
101	090007	PAINTING Interior Finishes						
103		Interior Finishes Prep/Paint new construction	345	sf	1.75	604		
104		Prep/Paint affected areas	343 1	ls	1,500.00	1,500		
105		SUBTOTAL	•		,,,,,,,,,	-,000	2,104	
106							, - 1	
107	092900	GWB						
108		Interior Construction						
109		New partitions/Install door frames	813	sf	17.50	14,228		
110		Open/Close/Patch existing walls	345	sf	2.50	863		
111		SUBTOTAL					15,091	
113	097200	WALLCOVERINGS						
114	09/200	Wall Finishes						
115		Walt Finisnes Vinyl wallcoverings/Graphics			assun	ned not required		
116		SUBTOTAL			aosun		_	
117								

PMC - Project Management Cost

GFA



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DESCRIPTI	ON	QTY		UNIT	UNIT COST	EST'D COST	SUB TOTAL		OTAL OST
	OM & BREAK ROOM - OPTION 1								
TOTAL -	FINISHES				-				
to CDEC	NIAL TIEC								
10 - SPEC									
100000	VISUAL DISPLAY SURFACES								
	Interior Construction Marker boards/Tackboards/Display cases				assur	ned not required			
	SUBTOTAL							_	
101400	SIGNAGE								
101400	Interior Construction								
	Room Signs				assur	ned not required	l		
	Branding/Graphics				assur	ned not required	l		
	SUBTOTAL							-	
TOTAL -	SPECIALTIES								
11 - EQUI	PMENT								
113100	APPLIANCES								
	Equipment Applianees Preak Poom			00	F 500 65				
	Appliances - Break Room UC refrigerator - Lactation Room		1	ea ea	5,500.00 1,200.00	5,500 1,200			
	SUBTOTAL							6,700	
momax	FOUNDATION	_							
IOTAL -	EQUIPMENT								
21 - FIRE	SUPPRESSION								
210000	FIRE PROTECTION								
	Fire Protection System			10					
	Adjust existing heads SUBTOTAL		1	ls	2,500.00	2,500		2,500	
	CONTOINE							_,ე00	
TOTAL -	FIRE SUPPRESSION								
22 - PLU	MBING								
220000	PLUMBING								
220000									
220000	Plumbing Fixtures & Specialties Sink - Break Room		1	ea	6 500 00	6 500)		
220000	Plumbing Fixtures & Specialties Sink - Break Room Sink - Lactation Room		1	ea ea	6,500.00 6,500.00				
220000	Sink - Break Room		1	ea ea	6,500.00 6,500.00	6,500 6,500)	3,000	
	Sink - Break Room Sink - Lactation Room SUBTOTAL		1 1)	3,000	
	Sink - Break Room Sink - Lactation Room		1 1)	3,000	
TOTAL -	Sink - Break Room Sink - Lactation Room SUBTOTAL PLUMBING		1 1)	3,000	
707AL -	Sink - Break Room Sink - Lactation Room SUBTOTAL PLUMBING C		1 1)	3,000	
TOTAL -	Sink - Break Room Sink - Lactation Room SUBTOTAL PLUMBING C HVAC		1 1)	3,000	
707AL -	Sink - Break Room Sink - Lactation Room SUBTOTAL PLUMBING C HVAC Air distribution			ea	6,500.00	6,500	1	3,000	
707AL -	Sink - Break Room Sink - Lactation Room SUBTOTAL PLUMBING C HVAC		1 1 2			6,500	1	3,000	
707AL -	Sink - Break Room Sink - Lactation Room SUBTOTAL PLUMBING C HVAC Air distribution Fan coil units			ea	6,500.00	6,500	1	3,000	;

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DESCRIPTI	ON	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
ACTATION RO	OM & BREAK ROOM - OPTION 1						
	Automatic temperature controls DDC	3	loc	1,500.00	4,500		
	Balancing						
	System testing & balancing	3	rms	350.00	1,050		
	SUBTOTAL					19,050	
TOTAL -	THU A C						
IOIAL -	HVAC						\$19,
26 - ELE	CTRICAL						
L							
260000	ELECTRICAL						
	Equipment Wiring						
	MEP equipment	2	unit	1,500.00	3,000		
	Lighting (fixture schedule not provided, allow)						
	Minor rework existing	1	ls	1,000.00	1,000		
	New lighting	8	ea	500.00	4,000		
	<u>Lighting Controls</u>						
	Lighting controls/switching/occupancy sensors	3	loc	250.00	ETR		
	Branch Power						
	Receptacles/Devices	345	gsf	2.00	690		
	Fire Alarm						
	Fire alarm system	345	gsf	3.50	ETR		
	Telephone/Data/CATV						
	Devices and cabling	345	gsf	1.00	345		
	Audio/Visual systems						
	Rough-in only with conduits and backboxes	345	gsf	0.75	259		
	Sound system - Fitness				NIC	!	
	SUBTOTAL					\$9,294	
TOTAL -	ELECTRICAL						\$9,
TOTAL L	ACTATION AND BREAK ROOM - OPTION 1	•			•	•	\$98,

GFA

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TOTAL COST TOTAL LACTATION ROOM & BREAK ROOM - OPTION 2 Lactation Room 60 Storage Room 90 TOTAL GROSS FLOOR AREA (GFA) 150 sf 02 - EXISTING CONDITIONS 024000 DEMOLITION Interior Demolition Remove/Dispose existing finishes 5.00 150 750 Protection/Temp partitions to isolate space ls 1,500.00 1,500 SUBTOTAL 2,250 TOTAL - MASONRY \$2,250 o3 - CONCRETE 033000 CONCRETE Interior Construction 22 Minor floor prep 150 2.50 23 SUBTOTAL 375 TOTAL - CONCRETE \$375 28 06 - WOOD, PLASTICS AND COMPOSITES ROUGH CARPENTRY Interior Construction Misc carpentry/Blocking 500 SUBTOTAL 500 064100 ARCHITECTURAL WOODWORK Interior Construction Cabinetry/Built-ins - Break Room lf 850.00 7,650 Cabinetry/Built-ins - Lactation Room wall hung sink SUBTOTAL 7,650 TOTAL - WOOD, PLASTICS AND COMPOSITES \$8,150 44 45 07 - THERMAL AND MOISTURE PROTECTION 070002 WATERPROOFING / DAMPPROOFING / CAULKING 48 Interior Construction Caulking - dissimilar materials 500.00 500 SUBTOTAL 500 TOTAL - THERMAL AND MOISTURE PROTECTION \$500 08 - OPENINGS GLASS & GLAZING Interior Construction

Glazing sidelights



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DES	SCRIPTIO	ON	QTY	7	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
LACTATIO	ON ROO	OM & BREAK ROOM - OPTION 2							
		SUBTOTAL						-	
08:	31113	DOORS AND FRAMES							
		<u>Interior</u>							
		Doors/Frames/Hardware							
		Doors/HM frames - single		1	ea	1,150.00	1,150		
		Doors/HM frames - double			ea	2,000.00	NR		
		Premium for glass in doors			ea	500.00	NR		
		Frames, sidelights			loc	900.00	NR	2	
		SUBTOTAL						1,150	
08;	33100	ACCESS DOORS AND FRAMES							
		Interior Doors							
		Access doors		1	ls	250.00	250		
		SUBTOTAL						250	
.0	S=100	DOOR HARDWARE							
08	37100								
		Interior Doors Hardware to interior doors		1	set	900.00	900		
		SUBTOTAL		•	set	900.00	900	900	
		SCENTIAL						900	
TO	OTAL -	OPENINGS							\$2,
<u> </u>									
09	- FINIS	SHES							
090	90003								
		Interior Finishes							
		New ACT ceilings		150	sf	8.50	1,275		
		Open/Close/Patch existing ceilings		1	ls	1,500.00	1,500		
		SUBTOTAL						2,775	
		DUCK KENT II OODG							
090	00005	RESILIENT FLOORS							
		Interior Finishes			-6				
		Resilient flooring - VCT		150	sf	7.50	1,125		
		Resilient base		70	lf	5.00	350		
		SUBTOTAL						1,475	
-	c-	DAINTING							
090	00007	PAINTING							
		Interior Finishes Prep / Paint new construction		150	of	1.55	060		
		Prep/Paint new construction		150	sf	1.75	263		
		Prep/Paint affected areas		1	ls	1,500.00	1,500		
		OTTPMOM LT						1,763	
		SUBTOTAL							
09:)2900	GWB							
09:	92900	GWB Interior Construction		40-	~£		0.00		
09:	92900	GWB Interior Construction New partitions/Install door frames		125	sf of	17.50	2,188		
09:	92900	GWB Interior Construction New partitions/Install door frames Open/Close/Patch existing walls		125 150	sf sf	17.50 2.50	2,188 375		
09:)2900	GWB Interior Construction New partitions/Install door frames						2,563	
		GWB Interior Construction New partitions/Install door frames Open/Close/Patch existing walls SUBTOTAL							
	92900 97200	GWB Interior Construction New partitions/Install door frames Open/Close/Patch existing walls SUBTOTAL WALLCOVERINGS							
		GWB Interior Construction New partitions/Install door frames Open/Close/Patch existing walls SUBTOTAL WALLCOVERINGS Wall Finishes				2.50	375		
		GWB Interior Construction New partitions/Install door frames Open/Close/Patch existing walls SUBTOTAL WALLCOVERINGS Wall Finishes Vinyl wallcoverings/Graphics				2.50			
		GWB Interior Construction New partitions/Install door frames Open/Close/Patch existing walls SUBTOTAL WALLCOVERINGS Wall Finishes				2.50	375		
		GWB Interior Construction New partitions/Install door frames Open/Close/Patch existing walls SUBTOTAL WALLCOVERINGS Wall Finishes Vinyl wallcoverings/Graphics				2.50	375		

GFA

PMC - Project Management Cost

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							GFA	150
	DESCRIPT	TON	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	LACTATION RO	OOM & BREAK ROOM - OPTION 2	1	1	1		1	
119	10 - SPE	CIALTIES						
120 121	100000	VISUAL DISPLAY SURFACES						
122		Interior Construction						
123		Marker boards/Tackboards/Display cases			assun	ned not required		
124		SUBTOTAL					-	
125 126	101400	SIGNAGE						
127		Interior Construction						
128		Room Signs				ned not required		
129		Branding/Graphics			assun	ned not required		
131		SUBTOTAL					-	
132	TOTAL	- SPECIALTIES						
133								
135	11 - EQU	TIPMENT						
136 137	113100	APPLIANCES						
138	113100	Equipment						
139		Appliances - Break Room	1	ea	5,500.00	5,500		
140		UC refrigerator - Lactation Room	1	ea	1,200.00	1,200		
141 142		SUBTOTAL					6,700	
143								
144	TOTAL	- EQUIPMENT						\$6,700
145 146								
147	21 - FIR	E SUPPRESSION						
148								
149	210000	FIRE PROTECTION						
150		Fire Protection System Adjust existing heads	1	ls	1,500.00	1.500		
152		SUBTOTAL		15	1,500.00	1,500	1,500	
153							1,500	
154	TOTAL	- FIRE SUPPRESSION						\$1,500
155								
156	22 - PLU	JMBING						
157		ny vyanny o						
158	220000	PLUMBING Plumbing Fixtures & Specialties						
160		Sink - Break Room	1	ea	6,500.00	6,500		
161		Sink - Lactation Room	1	ea	6,500.00	6,500		
162		SUBTOTAL					13,000	
163								
164 165	TOTAL	- PLUMBING						\$13,000
166								
167	23 - HV	AC						
169	23-111							
170	230000	HVAC						
171		Air distribution						
172		Fan coil units Sheet metal & Accessories		ea	5,500.00	NR		
174		Minor rework of duct + RGDs	1	ls	2,500.00	2,500		
175		Automatic Temperature Controls						
176		Automatic temperature controls DDC	2	loc	1,500.00	3,000		
177		Balancing System testing & balancing	2	rms	350.00	700		
		-,	_	.1110	300.00	,30		

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DESCRIPTION	ON	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL
CTATION ROO	OM & BREAK ROOM - OPTION 2	l			I	<u> </u>	1
	SUBTOTAL					6,200	
TOTAL -	HVAC						\$
26 - ELEC	CTRICAL						
260000	ELECTRICAL						
	Equipment Wiring						
	MEP equipment		unit	1,500.00	NR		
	Lighting (fixture schedule not provided, allow)						
	Minor rework existing	1	ls	1,000.00	1,000		
	New lighting	4	ea	500.00	2,000		
	Lighting Controls						
	Lighting controls/switching/occupancy sensors	2	loc	250.00	ETR		
	Branch Power						
	Receptacles/Devices	150	gsf	2.00	300		
	Fire Alarm						
	Fire alarm system	150	gsf	3.50	ETR		
	Telephone/Data/CATV						
	Devices and cabling	150	gsf	1.00	150		
	Audio/Visual systems						
	Rough-in only with conduits and backboxes	150	gsf	0.75	113		
	Sound system - Fitness				NIC	C	
	SUBTOTAL					\$3,563	
TOTAL -I	ELECTRICAL						
	ACTATION AND BREAK ROOM - OPTION 1						\$

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	CONSTRUCTION COST SUMMARY IN CSI FORMA				OPTION A		
	OPTION 1 Subtotal Total		OPTIC Subtotal	ON 2 Total	OPTION 3 Subtotal Total		
FICE RECONFIGURATION							
W WYGWING CONDINION		4		à- a		d	
OIV. 2 EXISTING CONDITIONS 024100 Demolition	\$5,550	\$5,550	\$5,870	\$5,870	\$2,250	\$2,25	
013280 Haz-Mat Abatement	\$0		\$0		\$o		
OIV. 3 CONCRETE		\$2,025		\$2,185		ė o r	
033000 Cast In Place Concrete	\$2,025	\$2,025	\$2,185	\$2,105	\$375	\$37	
		_		_		_	
OIV. 4 MASONRY 044000 Masonry	\$o	\$0	\$o	\$0	\$0	\$	
544500 Massing	Ψ		Ψ		40		
OIV. 5 METALS	do.	\$0	фо	\$0	ė.	\$	
050001 Metal Fabrications 051200 Structural Steel Framing	\$0 \$0		\$0 \$0		\$0 \$0		
053100 Steel Decking	\$o		\$o		\$o		
OIV. 6 WOODS, PLASTICS & COMPOSITES		¢4.0==		en a=0		ė=c	
061000 Rough Carpentry	\$1,500	\$4,375	\$2,250	\$2,250	\$500	\$50	
064000 Architectural Woodwork	\$2,875		\$0		\$0		
IV. 7 THERMAL & MOISTURE PROTECTION		\$1,000		\$1,000		8-0	
070001 Waterproofing/Dampproofing/Caulking	\$1,000	φ1,000	\$1,000	φ1,000	\$500	\$50	
070002 Roofing & Flashing	\$0		\$0		\$0		
072100 Thermal Insulation	\$o		\$o		\$o		
072400 Exterior Gypsum/Stucco Finishes	\$0		\$o		\$o		
074210 Metal Wall Panels 074690 Siding	\$0 \$0		\$0 \$0		\$0 \$0		
077200 Roof Specialties	\$0 \$0		\$0		\$0		
078100 Applied Fireproofing	\$0		\$o		\$ 0		
078400 Firestopping	\$o		\$o		\$o		
079513 Construction & Expansion Joints	\$o		\$o		\$o		
IV. 8 DOORS & WINDOWS		\$2,300		\$31,550		\$2	
084002 Glass & Glazing	\$o	+ -,0 ++	\$19,000	+0-,00°	\$o	-	
081113 Doors and Frames	\$1,150		\$6,900		\$o		
083100 Access Doors and Panels	\$250		\$250		\$250		
083323 Overhead Coiling Doors 083400 Specialty Doors	\$0 \$0		\$0 \$0		\$0 \$0		
087100 Door Hardware	\$900		\$5,400		\$0 \$0		
089000 Louvers and Vents	\$0		\$0		\$o		
BY a PINICHEC						фо. —	
IV. 9 FINISHES 090000 General Finishes	\$o	\$22,941	\$o	\$44,156	\$o	\$3,7	
090002 Tile	\$0		\$o		\$o		
090003 Acoustical Ceilings	\$4,550		\$4,870		\$1,250		
090005 Resilient Flooring	\$740		\$1,695		\$175		
090009 Painting	\$1,918		\$3,685		\$875		
092900 GWB, Lath and Plastering 096400 Wood Flooring	\$9,658 \$0		\$28,225 \$0		\$450 \$0		
096460 Wood Athletic Flooring	\$o		\$o		\$o		
096766 Fluid Applied Flooring	\$ 0		\$o		\$o		
096800 Carpet	\$6,075		\$5,681		\$975		
097200 Wallcoverings/FRP	\$0		\$0 00		\$0		
098414 Acoustic Panels	\$o		\$o		\$o		
IV 10 SPECIALTIES		\$0		\$0			
100000 Miscellaneous Specialties	\$o		\$o		\$o		
101100 Markerboards	\$0 \$0		\$0		\$0 \$0		
101200 Display Cases 101400 Signage	\$0 \$0		\$0 \$0		\$0 \$0		
102113 Toilet Compartments	\$0 \$0		\$0 \$0		\$0 \$0		
102228 Operable Partition	\$o		\$o		\$o		
102813 Toilet Accessories	\$o		\$o		\$o		
103000 Gas Fireplaces 104400 Safety Specialties	\$0 \$0		\$0 \$0		\$0 \$0		
104400 Safety Specialties 105113 Metal Lockers	\$0 \$0		\$0 \$0		\$0 \$0		
	40		7.7		7.7		
IV. 11 EQUIPMENT	φ-	\$0	40	\$0	# ~		
110000 Miscellaneous Equipment 113100 Appliances	\$0 \$0		\$0 \$0		\$0 \$0		
114000 Foodservice Equipment	\$0		\$0		\$0 \$0		
115213 Projection Screens	\$o		\$o		\$o		
116623 Athletic Equipment	\$o		\$o		\$o		
IV. 12 FURNISHINGS		\$0		\$0			
120000 Miscellaneous Furnishings	\$o	φυ	\$o	φυ	\$o		
122400 Window Shades	\$0		\$0		\$0		
124813 Entrance Floor Mats and Frames	\$o		\$o		\$o		
IV 10 SPECIAL CONCEDUCTION		<i>6</i> ~		ė.			
IV. 13 SPECIAL CONSTRUCTION 130000 Greenhouses	\$o	\$ 0	\$o	\$0	\$0		
130000 Trellis	\$o		\$o		\$o		
130000 Trenis	ΨΟ						

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NEEDHAM CATH SPACE UTILIZATION STUDY



9-Dec-22

	CONST	CONSTRUCTION COST SUMMARY IN CSI FORMAT						
		OPTION 1		OPTIO		OPTION 3		
		Subtotal	Total	Subtotal	Total	Subtotal	Total	
FFICE RECONFIGURATION								
DIV. 14 CONVEYING SYSTEMS			\$0		\$o		\$0	
140000 Elevators		\$o		\$ 0		\$o		
DIV. 21 FIRE SUPPRESSION			\$2,500		\$2,500		\$1,000	
210000 Fire Suppression		\$2,500		\$2,500		\$1,000		
DIV.22 PLUMBING			\$0		\$o		\$0	
220000 Plumbing		\$o		\$o		\$o		
DIV. 23 HVAC			\$6,200		\$25,600		\$1,100	
230000 HVAC		\$6,200		\$25,600		\$1,100		
DIV.26 ELECTRICAL			\$8,245		\$20,711		\$2,200	
260000 Electrical		\$8,245		\$20,711		\$2,200		
DIV. 31 EARTHWORK			\$0		\$o		\$0	
310000 Earthwork		\$o		\$0		\$o		
DIV. 32 EXTERIOR IMPROVEMENTS			\$0		\$o		\$0	
323100 Site Improvements		\$o		\$o		\$o		
SUBTOTAL DIRECT (TRADE) COST			\$55,136		\$135,822		\$11,900	
ESCALATION	6.0%		\$3,308		\$8,149		\$71	
DESIGN AND PRICING CONTINGENCY	10.0%		\$5,514		\$13,582		\$1,19	
SUB-TOTAL			\$63,958		\$157,553		\$13,80	
GENERAL CONDITIONS	12.5%		\$7,995		\$19,694		\$1,72	
GENERAL REQUIREMENTS	3.5%		\$2,239		\$5,514		\$48	
PHASING PREMIUM	5.0%		\$3,198		\$7,878		\$69	
ONDS	0.75%		\$480		\$1,182		\$10	
NSURANCE	1.40%		\$895		\$2,206		\$19	
ERMIT - \$10.00 per \$1,000			\$640		\$1,576		\$13	
OVERHEAD + PROFIT	10.0%		\$7,877		\$19,403		\$1,70	
TOTAL OF ALL CONSTRUCTION			\$87,282		\$215,006		\$18,838	

GFA

APPENDIX



Needham Center at the Heights Space Utilization Study #3480 Needham, MA Schematic Design Estimate 9-Dec-22

810

TOTAL UNIT COST COST DESCRIPTION ОТУ UNIT TOTAL COST OFFICE RECONFIGURATION - OPTION 1 Office Space Reconfiguration 810 TOTAL GROSS FLOOR AREA (GFA) 810 sf 02 - EXISTING CONDITIONS 024000 DEMOLITION Interior Demolition Remove/Dispose existing finishes 810 sf 5.00 4,050 Protection/Temp partitions to isolate space 1,500.00 1,500 SUBTOTAL 5,550 TOTAL - MASONRY \$5,550 03 - CONCRETE CONCRETE 033000 Interior Construction Minor floor prep 810 2.50 2,025 SUBTOTAL 2,025 TOTAL - CONCRETE \$2,025 25 06 - WOOD, PLASTICS AND COMPOSITES 061000 ROUGH CARPENTRY Interior Construction Misc carpentry/Blocking 1,500.00 1,500 32 33 SUBTOTAL 1,500 ARCHITECTURAL WOODWORK 064100 Interior Construction Cabinetry/Built-ins - Conference 5 1f 575.00 2,875 SUBTOTAL 2,875 TOTAL - WOOD, PLASTICS AND COMPOSITES \$4,375 43 07 - THERMAL AND MOISTURE PROTECTION 44 WATERPROOFING / DAMPPROOFING / CAULKING Interior Construction Caulking - dissimilar materials 1,000.00 1.000 SUBTOTAL 1,000 TOTAL - THERMAL AND MOISTURE PROTECTION \$1,000 08 - OPENINGS 53 084002 GLASS & GLAZING Interior Construction Glazing sidelights NR SUBTOTAL



9-Dec-22

DESCRIPTIO	DN .	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL
	IGURATION - OPTION 1						
081113	DOORS AND FRAMES						
	<u>Interior</u>						
	<u>Doors/Frames/Hardware</u>						
	Doors/HM frames - single	1	ea	1,150.00	1,150		
	Doors/HM frames - double		ea	2,000.00	NR		
	Premium for glass in doors		ea	500.00	NR		
	Frames, sidelights		loc	900.00	NR		
	SUBTOTAL					1,150	
083100	ACCESS DOORS AND FRAMES						
	<u>Interior Doors</u>						
	Access doors	1	ls	250.00	250		
	SUBTOTAL					250	
087100	DOOR HARDWARE						
	Interior Doors						
	Hardware to interior doors	1	set	900.00	900		
	SUBTOTAL					900	
TOTAL -	OPENINGS						\$2,3
							, -70
09 - FINIS	SHES						
090003	ACT						
	Interior Finishes						
	New/Patch ACT ceilings	810	sf	5.00	4,050		
	Open/Close/Patch existing ceilings	1	ls	500.00	500		
	SUBTOTAL					4,550	
090005	RESILIENT FLOORS						
	Interior Finishes						
	Resilient base	148	lf	5.00	740		
	SUBTOTAL					740	
090007	PAINTING						
	Interior Finishes						
	Prep/Paint new construction	810	sf	1.75	1,418		
	Prep/Paint affected areas	1	ls	500.00	500		
	SUBTOTAL					1,918	
092900	GWB						
	Interior Construction						
	New partitions/Install door frames	413	sf	17.50	7,228		
	Open/Close/Patch existing walls	810	sf	3.00	2,430		
	SUBTOTAL					9,658	
	CARDETING						
096800	CARPETING						
	Interior Construction	A .					
	Carpet - office areas	810	sf	7.50	6,075		
	SUBTOTAL					6,075	
CO=00=	WALL COVEDINGS						
097200	WALLCOVERINGS						
	Wall Finishes				4		
	Vinyl wallcoverings/Graphics			assur	ned not required		
	SUBTOTAL					-	

GFA

SUB TOTAL

EST'D COST

UNIT COST

UNIT

QTY



Needham Center at the Heights Space Utilization Study #3480 Needham, MA Schematic Design Estimate

DESCRIPTION

9-Dec-22

810

TOTAL

PMC - Project Management Cost

10 - SPECIALTIES 100000 VISUAL DISPLAY SURFACES Interior Construction Marker boards/Tackboards/Display cases assumed not r		
100000 VISUAL DISPLAY SURFACES Interior Construction		
100000 VISUAL DISPLAY SURFACES Interior Construction		
Interior Construction		
Marker boards/Tackboards/Display cases assumed not r		
	equired	
SUBTOTAL		-
101400 SIGNAGE		
Interior Construction		
Room Signs assumed not r	equired	
Branding/Graphics assumed not r	equired	
SUBTOTAL		-
TOTAL - SPECIALTIES		
11 - EQUIPMENT		
113100 APPLIANCES		
Equipment		
Appliances assumed not r	equired	
SUBTOTAL	-	-
TOTAL - EQUIPMENT		
21 - FIRE SUPPRESSION		
210000 FIRE PROTECTION		
Fire Protection System		
Adjust existing heads 1 ls 2,500.00	2,500	
SUBTOTAL	2	2,500
TOTAL - FIRE SUPPRESSION		
TOTAL - FIRE SOLT RESOLOT		
22 - PLUMBING		
N. M.		
220000 PLUMBING Plumbing Firstures & Considition		
Plumbing Fixtures & Specialties Sink assumed not r	required	
SHIR assumed not F SUBTOTAL	equireu	_
CONTOINE		
TOTAL - PLUMBING		
TOTAL TECNIBURG		
oo TWAC		
23 - HVAC		
230000 HVAC		
<u>Air distribution</u>		
Air distribution Fan coil units - new/relocate ea 5,500.00	NR	
Air distribution Fan coil units - new/relocate ea 5,500.00 Sheet metal & Accessories		
Air distribution Fan coil units - new/relocate ea 5,500.00	NR 2,500	
Air distribution ea 5,500.00 Sheet metal & Accessories minor rework of duct + RGDs 1 ls 2,500.00		
Air distribution ea 5,500.00 Fan coil units - new/relocate ea 5,500.00 Sheet metal & Accessories 1 ls 2,500.00 Automatic Temperature Controls 1 ls 2,500.00	2,500	

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Needham CATH SD Estimate 12.09.22

APPENDIX



Needham Center at the Heights Space Utilization Study #3480 Needham, MA Schematic Design Estimate

9-Dec-22

DESCRIPTION	ON	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL
FFICE RECONI	FIGURATION - OPTION 1	l l		I			
	SUBTOTAL					6,20	0
mom 4 v	×wa						
TOTAL -	HVAC						\$6,
26 - ELEC	CTRICAL						
260000	ELECTRICAL						
	Equipment Wiring						
	MEP equipment		unit	1,500.00	N	R	
	Lighting (fixture schedule not provided, allow)						
	Minor rework existing	1	ls	1,500.00	1,50	0	
	New lighting		ea	500.00	N	R	
	<u>Lighting Controls</u>						
	Lighting controls/switching/occupancy sensors	2	loc	250.00	50	0	
	Branch Power						
	Receptacles/Devices	810	gsf	1.00	81	0	
	Data/Power connections for workstations	4	ea	650.00	2,60	0	
	<u>Fire Alarm</u>						
	Fire alarm system	810	gsf	3.50	2,83	5	
	<u>Telephone/Data</u>						
	Devices and cabling - rough-in		gsf	1.50	w/ above		
	SUBTOTAL					\$8,24	15
TOTAL -I	ELECTRICAL						\$8
<u> </u>							

GFA

PMC - Project Management Cost

APPENDIX



Needham Center at the Heights Space Utilization Study #3480 Needham, MA Schematic Design Estimate

9-Dec-22

874

							GFA	
DESCRIPT	ION	QTY		UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL
ICE RECON	FIGURATION - OPTION 2							
	Offic	e Space Reconfiguration			874			
						0	-6	
	TOTAL GROSS FLOOR AREA (GFA)					874	sj	
02 - EXI	STING CONDITIONS							
024000	DEMOLITION							
	Interior Demolition							
	Remove/Dispose existing finishes		874	sf	5.00	4,370		
	Protection/Temp partitions to isolate space SUBTOTAL		1	ls	1,500.00	1,500	F 950	
	SUBTOTAL						5,870	
TOTAL -	MASONRY							\$
03 - CON	NCRETE							
033000	CONCRETE							
	Interior Construction							
	Minor floor prep		874	sf	2.50	2,185		
	SUBTOTAL						2,185	
TOTAL -	CONCRETE							
06 - WO	OD, PLASTICS AND COMPOSITES							
061000	ROUGH CARPENTRY							
	Interior Construction							
	Misc carpentry/Blocking		1	ls	2,250.00	2,250		
	SUBTOTAL						2,250	
							, 0	
064100	ARCHITECTURAL WOODWORK							
	Interior Construction					ND.		
	Cabinetry/Built-ins SUBTOTAL					NR		
	SUBTOTAL						-	
TOTAL -	WOOD, PLASTICS AND COMPOSITES							\$
07 - THE	ERMAL AND MOISTURE PROTECTION							
05000	WATERDOOFING / DAMPROOFING / CAN	LVINC						
0/0002	WATERPROOFING / DAMPPROOFING / CAU Interior Construction	LKINU						
	Caulking - dissimilar materials		1	ls	1,000.00	1,000		
	SUBTOTAL		-		,	-,- 50	1,000	
·							,	
TOTAL -	THERMAL AND MOISTURE PROTECTION							\$
08 - OPI	ENINGS							
084002	GLASS & GLAZING							
-	Interior Construction							
	Aluminum office fronts		200	sf	95.00	19,000		
	SUBTOTAL						19,000	

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Needham CATH SD Estimate 12.09.22



Needham Center at the Heights Space Utilization Study #3480 Needham, MA Schematic Design Estimate

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874

GFA

	DESCRIPTION	ON	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
OFF	ICE RECONF	FIGURATION - OPTION 2						•
	081113	DOORS AND FRAMES						
		<u>Interior</u>						
		Doors/Frames/Hardware						
		Doors/HM frames - single	6	ea	1,150.00	6,900		
		Doors/HM frames - double		ea	2,000.00	NR		
		Premium for glass in doors		ea	500.00	NR		
		Frames, sidelights		loc	900.00	NR		
		SUBTOTAL					6,900	
	083100	ACCESS DOORS AND FRAMES						
		Interior Doors						
		Access doors	1	ls	250.00	250		
		SUBTOTAL					250	
	00=400	DOOR HARDWARE						
	087100							
		Interior Doors Hardware to interior doors	6	set	000.00	E 400		
		SUBTOTAL	0	set	900.00	5,400	5,400	
		SUBTOTAL					5,400	
	TOTAL -	OPENINGS						\$31,55
	09 - FINI	SHES						
	090003	ACT						
		<u>Interior Finishes</u>						
		New/Patch ACT ceilings	874	sf	5.00	4,370		
		Open/Close/Patch existing ceilings	1	ls	500.00	500		
		SUBTOTAL					4,870	
	090005	RESILIENT FLOORS						
		Interior Finishes						
		Resilient base	339	lf	5.00	1,695		
		SUBTOTAL					1,695	
		DATA/PRAYO						
	090007	PAINTING						
		Interior Finishes		c		0		
		Prep/Paint new construction	874	sf	2.50	2,185		
		Prep/Paint affected areas	1	ls	1,500.00	1,500		
		SUBTOTAL					3,685	
		CVIT.						
	092900	GWB						
		Interior Construction		_				
		New partitions/Install door frames	1,463	sf	17.50	25,603		
		Open/Close/Patch existing walls	874	sf	3.00	2,622	_	
		SUBTOTAL					28,225	
	0060	CADDETING						
	096800	CARPETING						
		Interior Construction	•					
		Carpet - office areas	874	sf	6.50	5,681		
		SUBTOTAL					5,681	
	00=000	WALLCOVEDINGS						
	097200	WALLCOVERINGS						
		Wall Finishes						
		Vinyl wallcoverings/Graphics			assur	ned not required		
		SUBTOTAL					-	

COST ESTIMATE - DECEMBER 9, 2022

GFA

SUB TOTAL

EST'D COST

UNIT COST

UNIT

QTY



Needham Center at the Heights Space Utilization Study #3480 Needham, MA Schematic Design Estimate

DESCRIPTION

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874

TOTAL

PMC - Project Management Cost

L									
	OFFICE RECONF	FIGURATION - OPTION 2							
119 120									
121	10 - SPEC	CIALTIES							
122									
123	100000	VISUAL DISPLAY SURFACES							
125		Interior Construction Marker boards/Tackboards/Display cases			as	sumed	not required		
126		SUBTOTAL						_	
127 128	101400	SIGNAGE							
129	101400	Interior Construction							
130		Room Signs			as	sumed	not required		
131		Branding/Graphics			as	sumed	not required		
132		SUBTOTAL						-	
133 134	TOTAL -	SPECIALTIES							
135									
136	11 - EQUI	DMENIT							
138	II-EQUI	FMENT							
139	113100	APPLIANCES							
140 141		Equipment				o.d	not required		
142		Appliances SUBTOTAL			as	sumea	not required	_	
143 144									
145	TOTAL -	EQUIPMENT							
146									
147	ot FIDE	SUPPRESSION							
149	21 - FIKE	SUFFRESSION							
150	210000	FIRE PROTECTION							
151		Fire Protection System							
152		Adjust existing heads	1	ls	2,500	.00	2,500		
153		SUBTOTAL						2,500	
154	TOTAL	FIRE SUPPRESSION							¢0.500
156	TOTAL	TIRE SUFFRESSION							\$2,500
157	22 - PLUI	MBING							
158									
159	220000	PLUMBING							
160		<u>Plumbing Fixtures & Specialties</u>							
161		Sink			as	sumed	not required		
162 163		SUBTOTAL						-	
164									
165	TOTAL -	PLUMBING							
166 167									
168	23 - HVA	С							
169									
170 171	230000	HVAC Air distribution							
172		Fan coil units - new/relocate	2	ea	5,500	.00	11,000		
173		Sheet metal & Accessories			0,0**		,		
174		Minor rework of duct + RGDs	1	ls	3,500	.00	3,500		
175 176		Automatic Temperature Controls Automatic temperature controls DDC	6	loc	1,500	00	9,000		
177		Balancing	U	100	1,500	.50	9,000		
178		System testing & balancing	6	rms	350	.00	2,100		

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Needham CATH SD Estimate 12.09.22



Needham Center at the Heights Space Utilization Study #3480 Needham, MA Schematic Design Estimate

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DESCRIPTI	ON	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
DESCRIPTI	ON CONTRACTOR OF THE CONTRACTO	QII	UNII	cosi	COST	TOTAL	COST
CE RECONI	FIGURATION - OPTION 2						
	SUBTOTAL					25,600	
TOTAL -	HVAC						
26 - ELE	CTRICAL						
260000	ELECTRICAL						
	Equipment Wiring						
	MEP equipment	2	unit	1,500.00	3,000		
	Lighting (fixture schedule not provided, allow)						
	Minor rework existing	1	ls	750.00	750		
	New lighting	16	ea	500.00	8,000		
	<u>Lighting Controls</u>						
	Lighting controls/switching/occupancy sensors	7	loc	250.00	1,750		
	Branch Power						
	Receptacles/Devices	874	gsf	3.25	2,841		
	<u>Fire Alarm</u>						
	Fire alarm system	874	gsf	3.50	3,059		
	<u>Telephone/Data</u>						
	Devices and cabling - rough-in	874	gsf	1.50	1,311		
	SUBTOTAL					\$20,711	
TOTAL -	ELECTRICAL						
	OFFICE RECONFIGURATION - OPTION 2						

GFA

PMC - Project Management Cost

APPENDIX



Needham Center at the Heights Space Utilization Study #3480 Needham, MA Schematic Design Estimate

9-Dec-22

1								
DESCRIPTIO	N .		QTY	UNIT	UNIT	EST'D COST	SUB TOTAL	TOTAL
E RECONFI	IGURATION - OPTION 3				•		•	
	(Office Space Reconfiguration			150			
	TOTAL GROSS FLOOR AREA (GI	FA)				150	ef	
	101112 011030 1 20 0111111211 (01					-100		
02 - EXIS	TING CONDITIONS							
024000	DEMOLITION							
	<u>Interior Demolition</u> Remove/Dispose existing finishes		150	sf	5.00	750		
	Protection/Temp partitions to isolate space		150 1	ls	5.00 1,500.00	750 1,500		
	SUBTOTAL			15	1,500.00	1,500	2,250	
TOTAL - M	MACONDV							
TOTAL - N	TASONRY							\$
on CONC	PDETE							
o3 - CONC	ALIE							
033000	CONCRETE							
	Interior Construction							
	Minor floor prep		150	sf	2.50	375	_	
	SUBTOTAL						375	
TOTAL - C	CONCRETE							
061000	ROUGH CARPENTRY							
	Interior Construction							
	Misc carpentry/Blocking		1	ls	500.00	500		
	SUBTOTAL						500	
064100	ARCHITECTURAL WOODWORK							
	Interior Construction							
	Interior Construction Cabinetry/Built-ins					NR		
						NR	-	
TOTAL - V	Cabinetry/Built-ins					NR	-	
TOTAL - V	Cabinetry/Built-ins SUBTOTAL					NR	-	
	Cabinetry/Built-ins SUBTOTAL					NR	-	
07 - THER	Cabinetry/Built-ins SUBTOTAL WOOD, PLASTICS AND COMPOSITES	AULKING				NR	-	
07 - THER	Cabinetry/Built-ins SUBTOTAL WOOD, PLASTICS AND COMPOSITES RMAL AND MOISTURE PROTECTION	AULKING				NR	-	
07 - THER	Cabinetry/Built-ins SUBTOTAL WOOD, PLASTICS AND COMPOSITES EMAL AND MOISTURE PROTECTION WATERPROOFING / DAMPPROOFING / C. Interior Construction Caulking - dissimilar materials	AULKING	1	ls	500.00	NR 500	-	
07 - THER	Cabinetry/Built-ins SUBTOTAL WOOD, PLASTICS AND COMPOSITES EMAL AND MOISTURE PROTECTION WATERPROOFING / DAMPPROOFING / C. Interior Construction	AULKING	1	ls	500.00		500	
07 - THER 070002	Cabinetry/Built-ins SUBTOTAL WOOD, PLASTICS AND COMPOSITES EMAL AND MOISTURE PROTECTION WATERPROOFING / DAMPPROOFING / C. Interior Construction Caulking - dissimilar materials	AULKING	1	ls	500.00		500	
07 - THER 070002	Cabinetry/Built-ins SUBTOTAL WOOD, PLASTICS AND COMPOSITES EMAL AND MOISTURE PROTECTION WATERPROOFING / DAMPPROOFING / C. Interior Construction Caulking - dissimilar materials SUBTOTAL	AULKING	1	ls	500.00		500	
07 - THER 070002	Cabinetry/Built-ins SUBTOTAL WOOD, PLASTICS AND COMPOSITES EMAL AND MOISTURE PROTECTION WATERPROOFING / DAMPPROOFING / C. Interior Construction Caulking - dissimilar materials SUBTOTAL THERMAL AND MOISTURE PROTECTION	AULKING	1	ls	500.00		500	
07 - THER 070002 TOTAL - 7	Cabinetry/Built-ins SUBTOTAL WOOD, PLASTICS AND COMPOSITES EMAL AND MOISTURE PROTECTION WATERPROOFING / DAMPPROOFING / C. Interior Construction Caulking - dissimilar materials SUBTOTAL THERMAL AND MOISTURE PROTECTION	AULKING	1	ls	500.00		500	
07 - THER 070002 TOTAL - 7	Cabinetry/Built-ins SUBTOTAL WOOD, PLASTICS AND COMPOSITES RMAL AND MOISTURE PROTECTION WATERPROOFING / DAMPPROOFING / C. Interior Construction Caulking - dissimilar materials SUBTOTAL THERMAL AND MOISTURE PROTECTION NINGS	AULKING	1	ls	500.00		500	
07 - THER 070002 TOTAL - 7	Cabinetry/Built-ins SUBTOTAL WOOD, PLASTICS AND COMPOSITES EMAL AND MOISTURE PROTECTION WATERPROOFING / DAMPPROOFING / C. Interior Construction Caulking - dissimilar materials SUBTOTAL THERMAL AND MOISTURE PROTECTION NINGS GLASS & GLAZING	AULKING	1	ls	500.00		500	

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Needham Center at the Heights Space Utilization Study #3480 Needham, MA Schematic Design Estimate

9-Dec-22

				UNIT		SUB	TOTAL
DESCRIPTI	ON	QTY	UNIT	COST	COST	TOTAL	COST
ICE RECONI	FIGURATION - OPTION 3						
081113	DOORS AND FRAMES						
	<u>Interior</u>						
	<u>Doors/Frames/Hardware</u>						
	Doors/HM frames - single		ea	1,150.00	NR		
	Doors/HM frames - double		ea	2,000.00	NR		
	Premium for glass in doors		ea	500.00	NR		
	Frames, sidelights		loc	900.00	NR		
	SUBTOTAL					-	
083100	ACCESS DOORS AND FRAMES						
003100	Interior Doors						
	Access doors	1	ls	250.00	250		
	SUBTOTAL				-	250	
087100	DOOR HARDWARE						
	Interior Doors Hardware to interior doors		set	200.5-	NR		
	SUBTOTAL		set	900.00	NK	_	
	SOBIOTAL						
TOTAL -	OPENINGS						
09 - FINI	SHES						
090003	ACT						
	Interior Finishes						
	New/Patch ACT ceilings	150	sf	5.00	750		
	Open/Close/Patch existing ceilings	1	ls	500.00	500		
	SUBTOTAL					1,250	
090005	RESILIENT FLOORS						
090003	Interior Finishes						
	Resilient base	35	lf	5.00	175		
	SUBTOTAL	33	11	5.00	1/5	175	
	SUBTOTAL					1/5	
090007	PAINTING						
	Interior Finishes						
	Prep/Paint new construction	150	sf	2.50	375		
	Prep/Paint affected areas	1	ls	500.00	500		
	SUBTOTAL					875	
						, ,	
092900	GWB						
	Interior Construction						
	New partitions/Install door frames		sf	20.00	NR		
	Open/Close/Patch existing walls	150	sf	3.00	450		
	SUBTOTAL					450	
006800	CARDETING						
096800	CARPETING Interior Construction						
	Interior Construction Carpet - office areas	150	sf	6.50	975		
	SUBTOTAL	190	31	0.50	9/5	0.75	
	CONTOINE					975	
097200	WALLCOVERINGS						
	Wall Finishes						
	Vinyl wallcoverings/Graphics			assur	ned not required		
	SUBTOTAL					-	

COST ESTIMATE - DECEMBER 9, 2022

PMC - Project Management Cost

GFA



Needham Center at the Heights Space Utilization Study #3480 Needham, MA Schematic Design Estimate

9-Dec-22

150

		<u></u>					GFA	150
1	DESCRIPTIO	ON .	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
FFICE	RECONF	IGURATION - OPTION 3		<u> </u>	.1		I	<u> </u>
Ī:	10 - SPEC	IALTIES						
	100000	VISUAL DISPLAY SURFACES						
		Interior Construction						
		Marker boards/Tackboards/Display cases			assun	ned not required		
		SUBTOTAL					-	
:	101400	SIGNAGE						
	•	Interior Construction						
		Room Signs			assun	ned not required		
		Branding/Graphics			assun	ned not required		
		SUBTOTAL					-	
F	TOTAL -	SPECIALTIES						
L								
ſ	11 - EQUI	PMENT						
L	113100	APPLIANCES						
	113100	Equipment						
		Appliances			assun	ned not required		
		SUBTOTAL				•	-	
F	TOTAL -	EQUIPMENT						
L								
į.	21 - FIRE	SUPPRESSION						
L								
:	210000	FIRE PROTECTION						
		<u>Fire Protection System</u>						
		Adjust existing heads	1	ls	1,000.00	1,000		
		SUBTOTAL					1,000	
F	TOTAL - I	FIRE SUPPRESSION						\$1,000
Ľ	TOTAL 1	TED SOLI RESSION						ψ1,000
:	22 - PLUN	MBING						
_								
;	220000	PLUMBING Plumbing Pintons 8 Considire						
		Plumbing Fixtures & Specialties						
		Sink SUBTOTAL			assun	ned not required	_	
		50DIOIIII					-	
F	TOTAL	PLUMBING						
Ĺ	. OIAL - I	DOMBINO						
г								
Ľ	23 - HVA0	<i>3</i>						
	230000	HVAC						
		Air distribution						
		Fan coil units - new/relocate		ea	5,500.00	NR		
		Sheet metal & Accessories Mison revisely of ducts a RCDs		1.		= -		
		Minor rework of duct + RGDs <u>Automatic Temperature Controls</u>	1	ls	750.00	750		
		Automatic Temperature Controls Automatic temperature controls DDC		loc	1,500.00	NR		
		Balancing			-,,,,,,,,,,,			
		System testing & balancing	1	rms	350.00	350		

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Needham CATH SD Estimate 12.09.22

COST ESTIMATE - DECEMBER 9, 2022

APPENDIX



Needham Center at the Heights Space Utilization Study #3480 Needham, MA Schematic Design Estimate

9-Dec-22

DESCRIPTI	OON	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
FICE RECON	FIGURATION - OPTION 3			ı	I	I	
	SUBTOTAL					1,100	j
mom + r	WY G						
TOTAL -	HVAC						
26 - ELE	CTRICAL						
260000	ELECTRICAL						
	Equipment Wiring						
	MEP equipment		unit	1,500.00	NR		
	Lighting (fixture schedule not provided, allow)						
	Minor rework existing	1	ls	750.00	750		
	New lighting		ea	500.00	NR		
	Lighting Controls						
	Lighting controls/switching/occupancy sensors	7	loc	250.00	NR		
	Branch Power						
	Receptacles/Devices	150	gsf	1.00	150		
	Data/Power connections for workstations	2	ea	650.00	1,300		
	Fire Alarm						
	Fire alarm system	150	gsf	3.50	NR		
	Telephone/Data/CATV						
	Devices and cabling - rough-in		gsf	1.50	w/ above		
	SUBTOTAL					\$2,200	1
TOTAL -	ELECTRICAL						



APPENDIX C.3 COST ESTIMATE - FEBRUARY 23, 2023

APPENDIX



Schematic Design Estimate

Needham Senior Center Kitchen Renovations

Needham, MA

PMC LLC 20 Downer Avenue, Suite 5 Hingham MA 02043 (ph) 781-740-8007

(f) 781-740-1012

NEEDHAM CATH SPACE UTILIZATION STUDY

Prepared for:

Bargmann Hendrie + Archetype, Inc.

February 23, 2023



23-Feb-23

Schematic Design Estimate

MAIN CONSTRUCTION COST SUMMARY

	Construction Start	\$/SF	Estimated Construction Cost
	Fall 2023		
KITCHEN RENOVATION			\$409,055
HAZ MAT REMOVAL			NIC
SUBTOTAL TRADE COSTS			\$409,055
Design and Estimating Contingency	12.0%		\$49,087
Escalation	4.7%		\$19,226
SUBTOTAL			\$477,368
General Conditions/GR's -			\$100,000
Insurances	2.0%		\$11,547
Bond	1.00%		\$4,774
Fee	10.0%		\$59,369
Building Permit			Assume by Owner
TOTAL CONSTRUCTION COSTS			\$653,058
Alternates (includes mark-ups)			
1 Demolish and renovate existing servicing ar	ea	ADD	\$87,480
2 Alternate pantry layout		ADD	\$24,604



23-Feb-23

Schematic Design Estimate

This Feasibility estimate was produced from drawings prepared by Bargmann Hendrie + Archetype, Inc. dated February 2023. Design and engineering changes occurring subsequent to the issue of these documents have not been incorporated in this estimate.

This estimate includes all direct construction costs, general contractor's overhead and profit and design contingency. Cost escalation assumes start dates indicated.

Bidding conditions are expected to be negotiated pricing to pre-qualified general contractors, and pre-qualified sub-contractors, open specifications for materials and manufacturers.

The estimate is based on prevailing wage rates for construction in this market and represents a reasonable opinion of cost. It is not a prediction of the successful bid from a contractor as bids will vary due to fluctuating market conditions, errors and omissions, proprietary specifications, lack or surplus of bidders, perception of risk, etc. Consequently the estimate is expected to fall within the range of bids from a number of competitive contractors or subcontractors, however we do not warrant that bids or negotiated prices will not vary from the final construction cost estimate.

ITEMS NOT CONSIDERED IN THIS ESTIMATE

Items not included in this estimate are:

All professional fees and insurance
Building Permit costs
Land acquisition, feasibility, and financing costs
All Furnishings, Fixtures and Equipment
Items identified in the design as Not In Contract (NIC)
Items identified in the design as by others
Owner supplied and/or installed items (e.g. draperies, furniture and equipment)
Construction or occupancy phasing or off hours' work - except as noted in the estimate



CONSTRUCTION COST SUMM	IARY IN CSI FORMAT

		Subtotal	Total
Kitchen R	Renovation		
DIV. 2	EXISTING CONDITIONS		\$28,676
	024100 Selective Demolition	\$28,676	+,-,-
	025000 Haz Mat Removal	N.I.C.	
DIV. 3	CONCRETE		\$5,750
	031000 Concrete	\$5,750	
DIV. 4	MASONRY		\$0
	042000 Unit Masonry	\$o	
DIV. 5	METALS		\$2,823
	055000 Metal Fabrications	\$2,823	
DIV. 6	WOODS, PLASTICS & COMPOSITES		\$4,705
	061000 Rough Carpentry	\$1,882	
	062000 Finish Carpentry	\$2,823	
DIV. 7	THERMAL & MOISTURE PROTECTION		\$941
	070001 Joint Sealants, Waterproofing & Dampproofing	\$941	
DIV. 8	DOORS & WINDOWS		\$2,400
	081110 Doors, Frames and Hardware	\$2,400	
DIV. 9	FINISHES		\$63,285
	090002 Tile	\$51,630	
	090003 Acoustical Tile	\$2,950	
	090007 Painting	\$4,705	
	090003 Resilient Flooring	\$ 0	
	096800 Carpet	\$ 0	
	092900 GWB Assemblies	\$4,000	
DIV. 10	SPECIALTIES		\$12,200
	101100 Visual Display Boards	\$ 0	
	101400 Signage	\$1,000	
	102113 Toilet Compartments	\$ 0	
	102600 Wall Protection	\$10,200	
	102813 Toilet Accessories	\$o	
	104400 Fire Protection Specialties	\$1,000	



	Subtotal	Total
itchen Renovation		
DIV. 11 EQUIPMENT		\$115,000
114000 Food Service Equipment	\$115,000	
DIV. 12 FURNISHINGS		\$2,500
123000 Casework	\$2,500	
126000 Window Treatments	\$ 0	
DIV. 13 SPECIAL CONSTRUCTION		\$ 0
139000 Special Construction	\$ 0	
DIV. 14 CONVEYING		\$ 0
142000 Conveying	\$ 0	
DIV.21 FIRE PROTECTION		\$4,705
210000 Fire Protection	\$4,705	
DIV.22 PLUMBING		\$40,650
220000 Plumbing	\$40,650	
DIV.23 HVAC		\$64,018
230000 HVAC	\$64,018	•
DIV.26 ELECTRICAL		\$61,402
260000 Electrical	\$61,402	· /•
DIV.32 EARTHWORK		\$ 0
320000 Earthwork	\$ 0	·
SUBTOTAL DIRECT (TRADE) COST		\$409,055



	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	TOTAL
hen Reno	vation		1	L	I	
	Renovation area					
	Kitchen	941				
	TOTAL	941	gsf			
		,,	55			
02	EXISTING CONDITIONS					
02150						
	Remove/Chip SOG for depressed slab - walk-in cooler	1	ls	2,500.00	2,500	
	Demo and remove ceramic tile floor finishes and bases	850	sf	8.00	6,800	
	Demo and remove ceramic tile wall finishes	400	sf	8.00	3,200	
	Demo and remove ceiling (tile only)	130	sf	3.00	390	
	Demo and remove door, frame and hardware				NIC	
	GWB from one side of ETR framing	100	lf	36.00	3,600	
	$\label{thm:miscellaneous} \mbox{ Miscellaneous interior demolition - counters, casework and accessories etc.}$	941	gsf	2.00	1,882	
	Remove cut and capped fixtures and fittings	941	gsf	4.00	3,764	
	Remove existing kitchen equipment				By owner	
	Temp partition	30	lf	108.00	3,240	
	Temp door	1	loc	800.00	800	
	Dust control & protection of existing to remain - allowance	1	ls	2,500.00	2,500	
	SUBTOTAL					28
02500	O HAZARDOUS COMPONENTS ABATEMENT					
	HAZ MAT removal				By Owner	
	SUBTOTAL					
TOTAL I	XISTING CONDITIONS					
TOTAL I	EXISTING CONDITIONS CONCRETE					
	CONCRETE					
03	CONCRETE	1	ls	1,500.00	1,500	
03	CONCRETE O CONCRETE	1 850	ls sf	1,500.00 5.00	1,500 4,250	
03	CONCRETE O CONCRETE Replace/Patch slab on grade - walk-in cooler					5
03	CONCRETE O CONCRETE Replace/Patch slab on grade - walk-in cooler Floor prep - removed tile					5
03	CONCRETE O CONCRETE Replace/Patch slab on grade - walk-in cooler Floor prep - removed tile SUBTOTAL					5
03 03100 TOTAL 0	CONCRETE Replace/Patch slab on grade - walk-in cooler Floor prep - removed tile SUBTOTAL CONCRETE MASONRY				4,250	5
03 03100 TOTAL 0	CONCRETE Replace/Patch slab on grade - walk-in cooler Floor prep - removed tile SUBTOTAL CONCRETE MASONRY O UNIT MASONRY					5
03 03100 TOTAL 0	CONCRETE Replace/Patch slab on grade - walk-in cooler Floor prep - removed tile SUBTOTAL CONCRETE MASONRY				4,250	5
03 03100 TOTAL 0 04	CONCRETE Replace/Patch slab on grade - walk-in cooler Floor prep - removed tile SUBTOTAL CONCRETE MASONRY O UNIT MASONRY				4,250	5
03 03100 TOTAL 0 04	CONCRETE Replace/Patch slab on grade - walk-in cooler Floor prep - removed tile SUBTOTAL CONCRETE MASONRY O UNIT MASONRY SUBTOTAL				4,250	5
03 03100 TOTAL 0 04 04200 TOTAL 1	CONCRETE Replace/Patch slab on grade - walk-in cooler Floor prep - removed tile SUBTOTAL CONCRETE MASONRY O UNIT MASONRY SUBTOTAL MASONRY METALS				4,250	5
03 03100 TOTAL 0 04 04200	CONCRETE Replace/Patch slab on grade - walk-in cooler Floor prep - removed tile SUBTOTAL CONCRETE MASONRY O UNIT MASONRY SUBTOTAL MASONRY METALS METAL FABRICATIONS		sf	5.00	4,250 No scope	5
03 03100 TOTAL 0 04 04200 TOTAL 1	CONCRETE Replace/Patch slab on grade - walk-in cooler Floor prep - removed tile SUBTOTAL CONCRETE MASONRY O UNIT MASONRY SUBTOTAL METALS METAL FABRICATIONS Misc. metals allowance				4,250	
03 03100 TOTAL 0 04 04200 TOTAL 1 05 055000	CONCRETE Replace/Patch slab on grade - walk-in cooler Floor prep - removed tile SUBTOTAL CONCRETE MASONRY O UNIT MASONRY SUBTOTAL MASONRY METALS METAL FABRICATIONS Misc. metals allowance SUBTOTAL		sf	5.00	4,250 No scope	
03 03100 TOTAL 0 04 04200 TOTAL 1	CONCRETE Replace/Patch slab on grade - walk-in cooler Floor prep - removed tile SUBTOTAL CONCRETE MASONRY O UNIT MASONRY SUBTOTAL MASONRY METALS METAL FABRICATIONS Misc. metals allowance SUBTOTAL		sf	5.00	4,250 No scope	
03 03100 TOTAL 0 04 04200 TOTAL 1 05 055000	CONCRETE Replace/Patch slab on grade - walk-in cooler Floor prep - removed tile SUBTOTAL CONCRETE MASONRY O UNIT MASONRY SUBTOTAL MASONRY METALS METAL FABRICATIONS Misc. metals allowance SUBTOTAL		sf	5.00	4,250 No scope	2
03 03100 TOTAL 0 04 04200 TOTAL 1 05 055000	CONCRETE Replace/Patch slab on grade - walk-in cooler Floor prep - removed tile SUBTOTAL CONCRETE MASONRY O UNIT MASONRY SUBTOTAL METALS METAL FABRICATIONS Misc. metals allowance SUBTOTAL METALS METALS WOOD & PLASTICS		sf	5.00	4,250 No scope	
03 03100 TOTAL 0 04 04200 TOTAL 1 05 055000	CONCRETE Replace/Patch slab on grade - walk-in cooler Floor prep - removed tile SUBTOTAL CONCRETE MASONRY O UNIT MASONRY SUBTOTAL METALS METAL FABRICATIONS Misc. metals allowance SUBTOTAL METALS METALS WOOD & PLASTICS		sf	5.00	4,250 No scope	

APPENDIX



Needham Senior Center Kitchen Renovations Needham, MA

23-Feb-23

CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL
itchen Renova	ation						
	SUBTOTAL					2,823	
TOTAL W	OOD & PLASTICS						\$4,7
TOTAL	000 4 12 10 11 00						Ψ4,7
07	THERMAL & MOISTURE PROTECTION]					
070001							
	Sealant allowance SUBTOTAL	941	gsf	1.00	941		
						941	
TOTAL TH	IERMAL AND MOISTURE PROTECTION						\$9
08	DOORS & WINDOWS	7					
081100	DOORS, FRAMES AND HARDWARE	_					
081100	New door/frame/hardware	1	ls	2,400.00	2,400		
	SUBTOTAL					2,400	
TOTAL DO	OORS AND WINDOWS						\$2,4
TOTAL DC	OURS AND WINDOWS						\$2,4
09	FINISHES]					
0900002							
	Ceramic wall tile	400	sf	40.00	16,000		
	Quarry floor tile	850	sf	38.00	32,300		
	Quarry floor tile base	185	lf	18.00	3,330		
	SUBTOTAL					51,630	
0900003	ACOUSTIC CEILING TILE						
	Acoustic ceiling tile; washable - open/close existing	1	ls	1,000.00	1,000		
	Acoustic ceiling tile; washable - new	130	sf	15.00	1,950		
	SUBTOTAL					2,950	
090007	PAINTING AND COATING						
0,000,	Prepare, prime and paint new and existing to remain walls and doors allowance	941	gsf	5.00	4,705		
	SUBTOTAL					4,705	
096500	RESILIENT FLOORING				No scope		
090500	No work assumed				No scope		
	SUBTOTAL					-	
096800	CARPET Allowance to patch and repair assumed carpet at dinning				NR		
	SUBTOTAL				M	-	
092900		_	le	1,000,00	1 000		
	New partition Open/Close GWB walls, ceilings and soffits allowance	1	ls ls	1,000.00 3,000.00	1,000 3,000		
	SUBTOTAL	-	10	3,000.00	5,000	4,000	
TOTAL FL	NISHES						\$63,2
10 - SPECI	ALTIES						
	VICUAL DICIDIAN CUIDEACES				N.		
	VISUAL DISPLAY SURFACES				No scope		
101100							
	SUBTOTAL					-	
						-	



23-Feb-23

	CSI					UNIT	EST'D	SUB	TOTAL
	CODE		DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
	Kitchen	Renova	tion						
116			SUBTOTAL					1,000	
117 118		102110	TOILET COMPARTMENTS						
119			SUBTOTAL					-	
120 121		102600	WALL Protection						
122		102000	Stainless steel wall panel (8' high)	120	sf	50.00	6,000		
123			FRP wall panel (8' high)	160	sf	20.00	3,200		
124			Allowance for wall protection	1	ls	1,000.00	1,000		
125			SUBTOTAL					10,200	
126 127		102800	TOILET ACCESSORIES						
128			No work assumed						
129			SUBTOTAL					-	
130 131		104400	FIRE PROTECTION SPECIALTIES						
132		104400	Fire extinguisher cabinets	1	ls	1,000.00	1,000		
133			SUBTOTAL			-,	-,	1,000	
134 135	_	0=446	LOCVEDS						
136	1	05113	LOCKERS Metal lockers - Kitchen		00	220.00	660		
137			SUBTOTAL	3	ea	220.00	660	660	
138			SUBTOTAL					000	
139	T	OTAL - SI	PECIALTIES						\$12,860
140	<u></u>								
141	1	1 - EQUIPI	MENT						
142			FOOD CENTRACE FOLLD						
143		114000	FOOD SEWRVICE EQUIP. Food service equipment budget per BH+A/Crabtree	1	ls	115 000 00	115.000		
145			SUBTOTAL		15	115,000.00	115,000	115,000	
146			SOBIOTIE					113,000	
147	T	OTAL - E	QUIPMENT						\$115,000
148									•
149	1:	2 - FURNIS	SHINGS						
150		122000	O CASEWORK						
152		12,000	Misc. casework/Remove and install existing shelving	1	ls	2,500.00	2,500		
153			SUBTOTAL	-		2,300.00	2,300	2,500	
154 155		106000	O WINDOW TREATMENTS				A PTD		
156		120000	SUBTOTAL				Assume ETR	_	
157			SUBTOTAL					-	
158	T	OTAL - F	URNISHINGS						\$2,500
159	L								
160	2	1 - FIRE P	ROTECTION						
161							_		
162		210000	FIRE PROTECTION		_				
163			Remove and reinstall branch piping and sprinkler heads as required for renovated spaces	941	gsf	5.00	4,705		
164			SUBTOTAL					4,705	
165 166	7	OTAL - FI	RE PROTECTION						\$4,705
167	Ľ	JIAL-FI.	RELI ROLECTION						φ4,705
168	2	2 - PLUMI	BING						
169	L								
170		220000	PLUMBING						
171			Plumbing Fixtures						

APPENDIX



Needham Senior Center Kitchen Renovations Needham, MA

23-Feb-23

	CSI				UNIT	EST'D	SUB	TOTAL
	CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
L -	rrt. 1		1					
I	Kitchen Renova	ttion						
172		Connect to new kitchen equipment	25	ea	800.00	20,000		
173		Replace Gas Shutoff /Ansul System	1	ea		by Owner		
174		Floor drains		ea	1,200.00	ETR		
175		Domestic Water Piping						
176		Extend or repair fixture rough-in piping	1	ls	5,000.00	5,000		
177		Pipe Insulation						
178		Pipe insulation or replace, as required	1	ls	1,500.00	1,500		
179		Sanitary Waste And Vent Pipe						
180		New sanitary underground pipe		lf	130.00	ETR		
181		Extend fixture rough-in piping at fixtures	1	ls	2,500.00	2,500		
182		Grease tank and pump (50 gmp), recessed		ls	15,000.00	ETR		
183		Connect to exiting sanitary system, underground		loc	800.00	ETR		
184		Clean existing sanity pipe allowance	1	ls	4,500.00	4,500		
185		Miscellaneous						
186		Coordination & management	1	ls	5,000.00	5,000		
187		Coring, sleeves & fire stopping	1	ls	500.00	500		
188		Testing and sterilization	1	ls	600.00	600		
189		Fees & permits	1	ls	1,050.00	1,050		
190		SUBTOTAL			,.0	7-0-	40,650	
191							40,030	
192	TOTAL - P	PLUMBING						\$40,650
193								
194	23	HVAC						
195			ļ!					
196	230000	HVAC, GENERALLY						
197		<u>Equipment</u>						
198		VRF Heat Pump	1	ea	7,500.00	7,500		
199		VRF Branch Controller	1	ea	4,500.00	4,500		
200		VRF 4-Way Cassette w/ Grill	2	ea	2,800.00	5,600		
201		Kitchen Exhaust Fan KEF-1	1	ea	6,500.00	6,500		
202		Kitchen Makeup Air Fan, MAU-1	1	ea	6,500.00	6,500		
203		Sheet metal & Accessories						
204		Grease Duct, Welded	80	lf	30.00	2,400		
205		Insulation, Fyre Wrap	80	lf	8.00	640		
206		HVAC Piping						
207		Refrigerant Piping						
208		Refrigerant Piping with inline components	240	ea	35.00	8,400		
209		Condensate Drain Piping						
210		Copper pipe type L with fittings & hangers	2	ea	700.00	1,400		
211		Piping Insulation						
212		Piping insulation, Refrigerant	240	lf	13.00	3,120		
213		Temperature Controls (DDC)	-			0,		
214		Provide and connect new VRF controls to BMS	941	sf	4.50	4,235		
215		Balancing	741	31	4.00	4,≏33		
216		System testing & balancing	941	sf	3.00	2,823		
217		Miscellaneous	941	51	3.00	2,023		
218		Coordination & management	1	ls	8,000.00	8,000		
219		Coring, sleeves & fire stopping	1	ls	1,000.00	1,000		
220		Testing and sterilization	1	ls	600.00	600		
221								
		Fees & permits	1	ls	800.00	800	(, 0, 0	
222		SUBTOTAL					64,018	
223								
224	TOTAL, H	VAC						\$64,018
225	L							
226	26	ELECTRICAL						
227		-	ı					
228		Power:						
229		Modify and make connections at existing gear and distribution	1	ls	5,000.00	5,000		
230								



23-Feb-23

Schematic Design Estimate

SI DE	DESCRIPTION	QTY	UNIT	UNIT	EST'D COST	SUB TOTAL	TOTAL COST
		4	0		0001	10	2001
chen Ren							
	Equipment Wiring:						
	MAU feed and connections	1	ea	4,500.00	4,500		
	VRF/Heat pump feed and connections	1	ea	4,500.00	4,500		
	VRF/Cassette feed and connections	2	ea	1,200.00	2,400		
	DDC feed and connections	1	ea	500.00	500		
	Kitchen equipment Wiring:						
	Exhaust fan feed and connection	1	ea	1,500.00	1,500		
	Combi oven (Gas)	1	ea	1,000.00	1,000		
	Dishwasher feed and connection	2	ea	2,500.00	5,000		
	20A feed and connections	7	ea	1,000.00	7,000		
		/	-	1,000.00	,,530		
	Lighting:						
	New Kitchen lighting, installation and circuitry	941	sf	12.00	11,292		
	Lighting controls	941	sf	2.00	1,882		
	Branch devices and circuitry not depicted	941	sf	8.00	7,528		
	Fire Alarm:						
	Allow for modifications to existing FACP and testing	1	ls	2,500.00	2,500		
	Devices, modules and cabling	1	ls	2,500.00	2,500		
	Telecommunications (assumes ETR)				ETR		
	Security system (assumes ETR)			:	ETR		
	Miscellaneous:						
	Miscenaneous: Demo and make safe		la	0.500.00	0.500		
	Fees and permits	1	ls ls	3,500.00 800.00	3,500 800		
	SUBTOTAL	1	18	800.00	800	61,402	
	SUBTOTAL					01,402	
TOTAL	L ELECTRICAL						\$61,4
32 - EA	ARTHWORK						
32	0000 EARTHWORK						
	Allowance to remove and reinstall soils for new grease trap				NR		
	Allowance for E&B at new sanitary				NR		
	Allowance for misc. disposal, dewatering, bedding and fill materials				NR		
	SUBTOTAL					-	
TOTAL	L - EARTHWORK						
IOIAI	- LAKIII WORK						

Needham CATH Kitchen Reno (02.23.23 Page 10 PMC - Project Management Co



23-Feb-23

Schematic Design Estimate

CSI				UNIT	EST'D	SUB	TOTAL
CODE	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

ALTERNATES

1 Demolish and renovate existing servicing area					
<u>Demolition</u>					
Remove wall tile	100	sf	8.00	800	
Misc. demo/removals	1	ls	500.00	500	
<u>Tile</u>					
Install new wall tile	100	sf	40.00	4,000	
<u>Equipment</u>					
Food service equipment budget per BH+A/Crabtree	1	ls	50,000.00	50,000	
Plumbing					
Disconnect existing/Connect new equipment	1	ls	7,500.00	7,500	
Electrical					
Equipment disconnect/connection	1	ls	2,000.00	2,000	
Add Alternate #1 - direct costs					64,800

TOTAL - ALTERNATE 1	\$64,800
---------------------	----------

2 Alternate pantry layout				
<u>Demolition</u>				
Remove existing single door	1	ls	250.00	250
Create openings for overhead door/new door	1	ls	750.00	750
Misc. Metals				
Support for overhead coiling door	1	ls	4,500.00	4,500

Doors Overhead coiling door w/ counter loc 6,500.00 6,500 Single door/frame/hardware loc 1,975.00 1,975 Painting Paint affected areas/new door 500.00 ls 500 Equipment Relocate existing freezer ls 2,000.00 2,000 Electrical Equipment disconnect/connection ls 1,750.00

TOTAL - ALTERNATE 2

1,750

18,225

\$18,225

Add Alternate #2 - direct costs



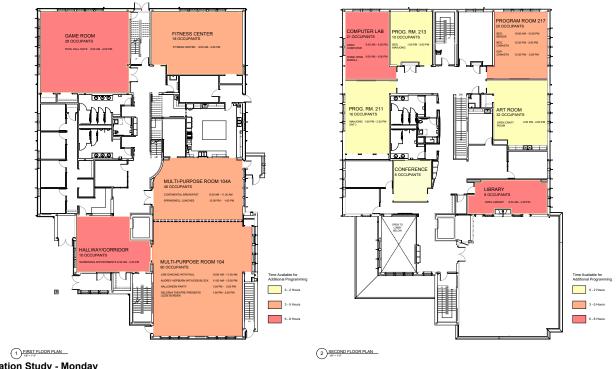
APPENDIX D ROOM USAGE STUDIES

APPENDIX ROOM USAGE STUDIES

NEEDHAM CENTER AT THE HEIGHTS

SPACE UTILIZATION STUDY

300 Hillside Avenue, Needham Heights, MA 02494



Utilization Study - Monday

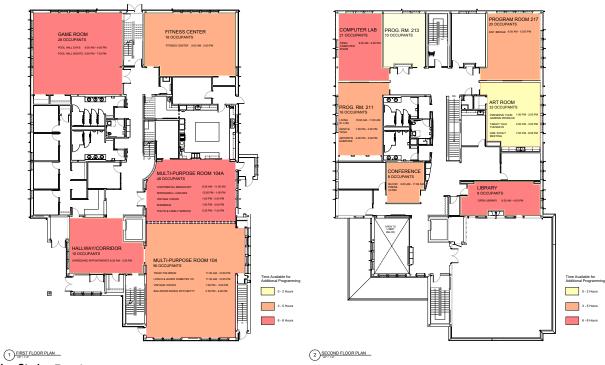
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ROOM USAGE STUDIES APPENDIX

NEEDHAM CENTER AT THE HEIGHTS

SPACE UTILIZATION STUDY

300 Hillside Avenue, Needham Heights, MA 02494



Utilization Study - Tuesday

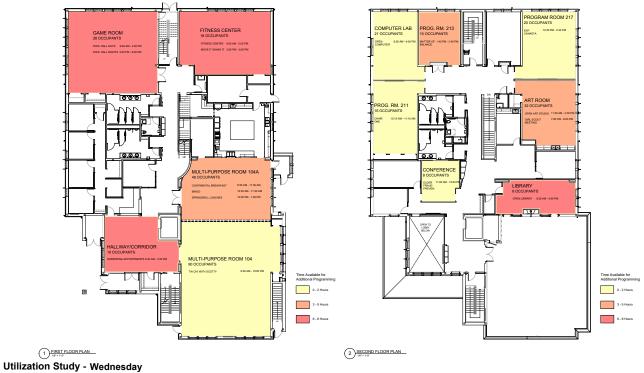
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APPENDIX ROOM USAGE STUDIES

NEEDHAM CENTER AT THE HEIGHTS

SPACE UTILIZATION STUDY

300 Hillside Avenue, Needham Heights, MA 02494



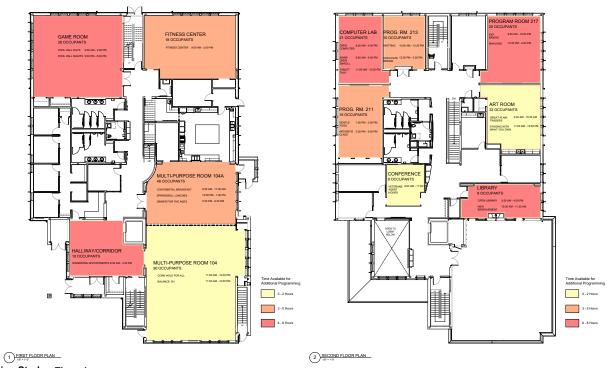
Bargmann Hendrie + Archetype, Inc. 9 Channel Center Street Boston, MA 02210 Tel: (617) 350-0450 October 2022

ROOM USAGE STUDIES APPENDIX

NEEDHAM CENTER AT THE HEIGHTS

SPACE UTILIZATION STUDY

300 Hillside Avenue, Needham Heights, MA 02494



Utilization Study - Thursday

| Character | Character

APPENDIX ROOM USAGE STUDIES

NEEDHAM CENTER AT THE HEIGHTS

SPACE UTILIZATION STUDY

300 Hillside Avenue, Needham Heights, MA 02494





APPENDIX E BASEMENT RE-USE MEMO: JUNE 3, 2013



BARGMANN HENDRIE + ARCHETYPE, INC.

Architecture Planning Interior Design

 300 A Street
 617 350 0450 tel
 bha@bhplus.com

 Boston, MA 02210-1710
 617 350 0215 fax
 www.bhplus.com

June 3, 2013

Steve Popper, PE Director of Design and Construction, DPF/PPBC Phaldie Taliep, Project Manager, DPF 500 Dedham Ave Needham, MA 02492

re: Needham Senior Center- Basement Space BH+A Project No. 3027

Dear Steve & Phaldie:

The potential ceiling height due to the depth of the steel beams, and projecting elements in the basement space have been raised as a concern. We have reviewed the documents and building code and note the following:

Ceiling Height

Current Use: The space is currently permitted as Accessory Storage Area/ Mechanical Rooms.

- The space is fully sprinklered and has emergency lighting and exit signs.
- No ceiling is scheduled for the space under this permit.
- The underside of the deepest beams are 7'-3" (+/-) above the finish floor; the underside of the floor deck is 8'-6 ½ "(+/-).
- The Town must maintain a clear egress path between Stair No. 02 and Stair No. 04.
- The Town must maintain a clear accessible path to the elevator.

Future Use: In the future, Town may determine that an enclosed program space may be needed in the basement. In order to create a program space, the following would be required:

- A defined egress path (corridor) and accessible route must be maintained between the elevators and Stairs 04 and 05.
- It is assumed that the space south of Gridline 6 would be developed into the future program space.
- The future program space is defined by the IBC as an Occupiable Space.
- A minimum 7'-6 inch high ceiling could be installed between the beams. (IBC Section 1208 2)
- It is assumed that new lighting, sprinkler, and HVAC designs would be prepared to accommodate a program use in the future. Changing from an unoccupied Storage space to an occupied Assembly or Office use.
- The 4 deep steel framing members would be wrapped in GWB or a similar material
 with the bottom of the GWB at a minimum of 7"-0" AFF. IBC Section 1208.2.1 defines
 the wrapped beams as a "furred ceiling". The extent of furred ceilings cannot exceed
 two-thirds of the floor area.
- The sweep of the telephone/cable conduits on the south side of the space between gridlines 8 and 8.3 would require a furred ceiling soffit or construction of a closet below them since the conduits create restricted head room.

P:\3027_Needham_Senior\cadmin\Correspondence\Owner\ltr-060313-Popper-Taliep- Basement Space.docx



Steve Popper/Phaldie Taliep Needham Senior Center- Basement Space June 3 2013 Page 2

> The floor area of the future program space is approximately 962 SF. 12 inch wide soffits along the 4 beam lines would be 104 SF. A soffit or closet below the conduits would be another 40 SF. Total furred ceiling would be 144 SF. This is 14% of the area; far below the allowable 33% of furred ceiling.

Ceiling Projections

Areas were equipment is hanging below 7'-0" (code minimum of a projection is 6"-8"), will be marked on the floor and/or on the projection itself to ensure safe access to occupants and emergency personnel in the building during an emergency event. BH+A will prepare a Bulletin with recommended markings and protection.

At this time, our primary concern is ensuring that the Building and Fire Department are satisfied with markings identifying elements hanging below 6'-8" in the basement space to ensure safe passage during emergency conditions.

Please feel free to contact me with additional questions.

Sincerely,

Thomas A. Scarlata, CSI, CCS, AIA Principal

cc: Jeff Guilherme

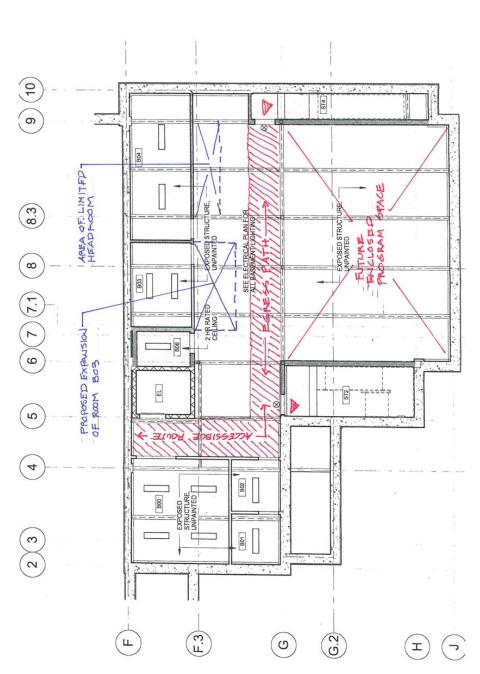
None Darleto

Gary Moses

enc: Plan Showing egress and access path/location of future program space.



Steve Popper/Phaldie Taliep Needham Senior Center- Basement Space June 3 2013 Page 3





APPENDIX F PLANNING DECISION: FEBRUARY 21, 2012

781-455-7500



PI ANNING

TOWN OF NEEDHAM, MA 02492

PLANNING AND COMMUNITY

DEVELOPMENT DEPARTMENT FEB 23 PM 500 Development FEB 23 PM 500 Development FEB 24 PM 500 Development FEB 25 PM 500 Developm

AMENDMENT TO DECISION February 21, 2012

Major Project Site Plan Special Permit

Major Project Site Plan Special Permit Needham Senior Center SPMP No. 2011-04 (Original Decision October 18, 2011)

DECISION of the Planning Board of the Town of Needham, Massachusetts, (hereinafter together with any entity succeeding the powers of said Planning Board referred to as the "Board") on the petition of the Town of Needham by its agent the Needham Permanent Public Building Committee ("the Petitioner"), 470 Dedham Avenue, Needham, Massachusetts for that certain property located at 300 Hillside Avenue, Needham, Massachusetts. The subject property is located at 300 Hillside Avenue, Needham, Massachusetts, shown on Assessor's Map No. 99, Parcel 14 containing 71,311 square feet in the Hillside Avenue Business Zoning District. The Site was the subject of a Major Project Site Plan Special Permit No. 2011-04, dated October 18, 2011.

The original Major Project Site Plan Special Permit, issued on October 18, 2011, allowed the construction of a new 2-story building for use as a Senior Center for the Town of Needham. The building will include a partial basement of 3,513 square feet, a first floor of 11,460 square feet and a second floor of 8,871 square feet for a total building size of 23,844 square feet. The project includes 65 on-site parking spaces for the Senior Center. Additional spaces are being provided off-site to accommodate needs for both typical days and special events. The project also provides 85 parking spaces that the MBTA will use for parking for its Needham Heights commuter rail station. Site work includes modifications to the site grading and drainage, and the addition of landscaping. The Senior Center includes a multi-purpose room, a kitchen, a game room, a fitness studio, an art space, a computer room, and space for the Council on Aging administration and support staff as well as additional spaces for other programs.

This decision is in response to an application submitted to the Board on February 21, 2012, by the Petitioner to amend the decision by the Board dated October 18, 2011, for approval to make certain minor site modifications, all in accordance with the Exhibits identified below.

The changes requested are deemed minor in nature and extent and do not require public notice or public hearing. Testimony and documentary evidence were presented to the Board on February 21, 2012 in the Charles River Room, First Floor, Public Services Administration Building, 500 Dedham Avenue, Needham, Massachusetts. Board members, Bruce T. Eisenhut, Martin Jacobs, Jeanne S. McKnight and Sam Bass Warner were present throughout the February 21, 2012 proceedings. After testimony and documentary evidence were presented the Board took action on the matter.

EVIDENCE

Submitted for the Board's review were the following exhibits:

 Application Form for Site Plan Review completed by the applicant's representative dated February 21, 2012.

- 2. Transmittal memo to Lee Newman, Director of Planning and Community Development, from Deborah Robinson, Bargmann Hendrie + Archetype, Inc., dated January 20, 2012.
- 3. Needham Senior Center Drawing List dated August 19, 2011, revised September 26, 2011 and January 20, 2012.
- 4. Letter to Lee Newman, Director of Planning and Community Development, from Calvin M. Olson, Drummey Rosane Anderson, Inc., dated February 7, 2012.
- 5. Plans titled "Needham Senior Center, Needham, Massachusetts" prepared by Bargmann Hendrie + Archetype, Inc., 300 A Street, Boston, MA 02210, Bolton & DiMartino, Inc., 100 Grove Street, Worcester MA, 01605, Allied Consulting Engineering, Inc., 215 Boston Post Road, Sudbury MA 01776, Columbia Design Group, LLC, 14 Upham Street, Boston, MA 02125, Hammer+Walsh Design Inc., 300 A Street, Boston MA 02210, consisting of 12 pages: Sheet 1, Sheet SP-A000, entitled "Cover Sheet," dated August 19, 2011, revised September 20, 2011, January 4, 2012 and January 20, 2012; Sheet 2, Sheet SP-C101, entitled "General Plan," dated August 19, 2011, revised September 20, 2011, January 4, 2012 and January 20, 2012; Sheet 3, Sheet SP-C102, entitled "Drainage & Utility Plan," dated August 19, 2011, revised September 20, 2011, January 4, 2012 and January 20, 2012; Sheet 4, Sheet SP-C104, entitled "Storm Drainage Details," dated August 19, 2011, revised September 20, 2011, January 4, 2012 and January 20, 2012; Sheet 5, Sheet SP-C105, entitled "Site Phasing Plan," dated August 19, 2011, revised September 20, 2011, January 4, 2012 and January 20, 2012; Sheet 6, Sheet SP-L100, entitled "Landscape Plan," dated August 19, 2011, revised September 20, 2011, January 4, 2012 and January 20, 2012; Sheet 7, Sheet SP-L200, entitled "Landscape Details," dated August 19, 2011, revised September 20, 2011, January 4, 2012 and January 20, 2012; Sheet 8, Sheet SP-A100, entitled "Basement Plan," dated August 19, 2011, revised September 20, 2011, January 4, 2012 and January 20, 2012; Sheet 9, Sheet SP-A101, entitled "First and Second Floor Plans," dated August 19, 2011, revised September 20, 2011, January 4, 2012 and January 20, 2012; Sheet 10, Sheet SP-A102, entitled "Roof Plan and Typical Details," dated August 19, 2011, revised September 20, 2011, January 4, 2012 and January 20, 2012; Sheet 11 Sheet SP-A200, entitled "Exterior Elevations," dated August 19, 2011, revised September 20, 2011, January 4, 2012 and January 20, 2012; Sheet 12, Sheet SP-E001, entitled "Electrical Site Plan," dated August 19, 2011 revised September 20, 2011, January 4, 2012 and January 20, 2012.
- 6. Interdepartmental Communication (IDC) to the Board from Anthony Del Gaizo, Assistant Director, DPW, dated February 21, 2012.

FINDINGS AND CONCLUSIONS

The findings and conclusions made in Major Project Site Plan Special Permit No. 2011-04, dated October 18, 2011 were ratified and confirmed except as follows:

- 1. The Board hereby approves the modifications as described under Exhibits 1, 2, 3, 4 and 5.
- 2. Issuance of a building permit to permit the minor modifications as described under Exhibits 1, 2, 3, 4, and 5 above is hereby authorized as limited herein.
- 3. The following plans, as modified by this decision, constitute the final plan set for this project. The bolded plan sheets are those that were altered by this modification.
 - a) Plans titled "Needham Senior Center, Needham, Massachusetts" prepared by Bargmann Hendrie + Archetype, Inc., 300 A Street, Boston, MA 02210, Bolton & DiMartino, Inc., 100 Grove Street,

Worcester MA, 01605, Allied Consulting Engineering, Inc., 215 Boston Post Road, Sudbury MA 01776, Columbia Design Group, LLC, 14 Upham Street, Boston, MA 02125, Hammer+Walsh Design Inc., 300 A Street, Boston MA 02210, consisting of 12 pages: Sheet 1, Sheet SP-A000, entitled "Cover Sheet," dated August 19, 2011, revised September 20, 2011, January 4, 2012 and January 20, 2012; Sheet 2, Sheet SP-C101, entitled "General Plan," dated August 19, 2011, revised September 20, 2011, January 4, 2012 and January 20, 2012; Sheet 3, Sheet SP-C102, entitled "Drainage & Utility Plan," dated August 19, 2011, revised September 20, 2011, January 4, 2012 and January 20, 2012; Sheet 4, Sheet SP-C103, entitled "Grading Plan," dated August 19, 2011, revised September 20, 2011; Sheet 5, Sheet SP-C104, entitled "Storm Drainage Details," dated August 19, 2011, revised September 20, 2011, January 4, 2012 and January 20, 2012; Sheet 6, Sheet SP-C105, entitled "Site Phasing Plan," dated August 19, 2011, revised September 20, 2011, January 4, 2012 and January 20, 2012; Sheet 7, Sheet SP-L100, entitled "Landscape Plan," dated August 19, 2011, revised September 20, 2011, January 4, 2012 and January 20, 2012; Sheet 8, Sheet SP-A100, entitled "Basement Plan," dated August 19, 2011, revised September 20, 2011, January 4, 2012 and January 20, 2012; Sheet 9, Sheet SP-A101, entitled "First and Second Floor Plans," dated August 19, 2011, revised September 20, 2011, January 4, 2012 and January 20, 2012; Sheet 10, Sheet SP-A102, entitled "Roof Plan and Typical Details," dated August 19, 2011, revised September 20, 2011, January 4, 2012 and January 20, 2012; Sheet 11, Sheet SP-A200, entitled "Exterior Elevations," dated August 19, 2011, revised September 20, 2011, January 4, 2012 and January 20, 2012; Sheet 12, Sheet SP-E001, entitled "Electrical Site Plan," dated August 19, 2011 revised September 20, 2011, January 4, 2012 and January 20, 2012.

- b) Plan entitled "Needham Senior Center," Sheet SP-A201, entitled "Exterior Presentation Elevations," dated August 19, 2011.
- c) Plans entitled "Needham Senior Center, Sheet SP-C001, entitled "Existing Site Drawing," dated August 19, 2011; and Sheet SP-L200, entitled "Landscape Details," dated August 19, 2011, revised September 20, 2011, January 4, 2012 and January 20, 2012.
- 4. Notwithstanding the above plans, the Petitioner shall be entitled to install a shade trellis at the roof deck at its discretion.
- 5. The proposed changes are deemed minor in nature and do not require public notice or hearing.

CONDITIONS AND LIMITATIONS

The plan modifications, conditions and limitations contained in Major Project Site Plan Special Permit No. 2011-04, dated October 18, 2011 are ratified and confirmed except as modified herein.

DECISION

NOW THEREFORE, by unanimous vote of the Planning Board, the Board votes that:

- 1. The proposed changes are minor in nature and do not require a public notice or a public hearing. No 20-day appeal period from this Amendment of Decision is required.
- 2. That the requested modifications are granted.

This approval shall be recorded in the Norfolk District Registry of Deeds. This Major Site Plan Special Permit amendment shall not take effect until the Petitioner has delivered written evidence of recording to the Board.

Witness our hands this 21 st day of February, 2012.			
Bruce T. Eisenhut, Chairman Sam Bass Warner Martin Jacobs Jeanne S. McKnight Ronald W. Ruth			
Total III and III an			
COMMONWEALTH OF MASSACHUS	ETTS		
Norfolk, ss	Feb. 21, ,2012		
On this 2 day of Fehman, 2012, before me, the undersigned notary public, personally appeared Bruce Fisenhat, one of the members of the Board of the Town of Needham, Massachusetts, proved to me through satisfactory evidence of identification, which was in the form of a state issued drivers license, to be the person whose name is signed on the proceeding or attached document, and acknowledged the foregoing to be the free act and deed of said Board before me. Augustual Massachusetts, proved to me through satisfactory evidence of identification, which was in the form of a state issued drivers license, to be the person whose name is signed on the proceeding or attached document, and acknowledged the foregoing to be the free act and deed of said Board before me. Notary Public			
My commission expires	April 2, 2015		
Copy sent to:			
Petitioner - Certified Mail # Town Clerk Building Inspector Director, PWD Board of Health Conservation Commission Board of Selectmen Engineering Fire Department Police Department Steven Popper			



APPENDIX G UMASS BOSTON PLANNING STUDY



Town of Needham Center at the Heights Planning Study

June, 2020

Commissioned by The Town of Needham & the Department of Health & Human Services

Center for Social and Demographic Research on Aging
Gerontology Institute

John W. McCormack Graduate School of Policy & Global Studies
University of Massachusetts Boston



Contributors and Acknowledgements

This report was produced by the Center for Social and Demographic Research on Aging (CSDRA), a research unit within the Gerontology Institute at UMass Boston's McCormack School. The CSDRA provides resources and research expertise to communities, non-governmental organizations, and other agencies through the Commonwealth.

Caitlin Coyle, PhD is primarily responsible for the contents of this report. Other UMass Boston researchers contributing to the project include Jan Mutchler, PhD, Beth Rouleau, Nidya Velasco Roldan and Ceara Somerville. We gratefully recognize our partners in this effort, Ana Julien and Valerie Fletcher from the Institute for Human Centered Design.¹

We offer our appreciation to Timothy McDonald, Director of Health & Human Services, and LaTanya Steele, Director of the Needham Council on Aging, who provided important guidance and leadership for this project. We acknowledge with gratitude the staff of the Center at the Heights for their input. As well we are deeply grateful to the many Needham residents who shared their thoughts as part of the data collection.

Thanks also to Peer Community COA directors: Carol Hamilton (Marshfield), Susan Ramsey (Natick), Hemali Shah (Lexington), Jamie Gutner (formerly of Needham), and Jayne Colino (Newton) for sharing information about their respective senior centers and experiences.

For more information, contact:

The Center for Social and Demographic Research on Aging Gerontology Institute
University of Massachusetts Boston

CSDRA@umb.edu | 617.287.7413

Recommended Citation

Coyle, Caitlin, "Town of Needham Center at the Heights Needs Assessment" (June, 2020). *Center for Social and Demographic Research on Aging Publications*

¹ www.HumanCenteredDesign.org

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Executive Summary

This report describes research undertaken by the Center for Social & Demographic Research on Aging within the Gerontology Institute at the University of Massachusetts Boston and the Institute for Human Centered Design (IHCD), on behalf of the Town of Needham's Department of Health & Human Services. The purpose of this study is to identify the aspects of the programming and environment that can be adjusted to ensure that, according to the Mission of the Needham Council on Aging, a "welcoming, inclusive, and secure" environment is maintained for Needham residents.

This study was conducted over the course of 10 weeks (April 2020-June 2020). At this time, the world was responding to the global COVID-19 pandemic; as a result, nearly all activities associated with this project were done remotely. A demographic profile was completed, based on existing, publicly available data about Needham from the US Census Bureau and projections from the Donahue Institute at the University of Massachusetts and the Metropolitan Area Planning Council (MAPC). Two tours of the Center at the Heights (CATH) were completed—one via video conferencing and one building survey that was conducted in-person by partners from ICHD. The project included a web-based survey of residents age 60 and older. In May of 2020, all residents age 60 or older received a postcard inviting them to participate in the online survey. The survey generated a total of 679 responses from residents in this age category (18 responses came from residents younger than 60). Two focus groups were conducted via video conferencing with staff of the CATH and board members from the Council on Aging. These conversations provided first-hand accounts of the ways in which the spaces are used. Finally, peer community interviews were conducted with directors of five senior centers that have recently undergone a building design process and could provide their experiences and suggestions for how to capitalize the use and benefit of newly constructed space.

Key Findings in Brief:

- It is clear that the CATH is an important resource to the Town of Needham. In fact, 75% of survey respondents reported that the CATH plays an important role in their lives or the lives of their loved ones.
- Population projections suggest steady increases in the number of older residents between 2010 and 2030, resulting in an age 60+ population numbering between 8,000 and 10,000 by 2030.
- 33% of survey respondents reported that finding parking has been a challenge to accessing the CATH and 15% of respondents that they have not been able to participate because programming is offered at an inconvenient time.

- When asked about which existing programs or services are most important to them or members of their family, respondents across age groups were consistent with their number one choice—fitness activities (e.g., yoga, Zumba). Other highly valued programs include professional services; information and referral; educational opportunities; physical health and wellness programs; and assistance with state or local programs (e.g., fuel assistance).
- Half of survey respondents have visited the CATH within the past year. Among them, 32% report attending on at least a weekly basis.
- When asked about priorities for expanding the programs available at the CATH, those
 who have not visited the CATH within the past year offered the same top priorities as
 those who had participated in the previous year, each group listing educational programs,
 fitness opportunities, and performances and presentations most frequently.
- Key informants described ways in which the physical space of the Center could be used differently to accommodate more or different types of programming.
 - Outdoor patio space is underutilized as is the kitchen space.
 - Fitness programming is currently very full and in high-demand for additional space.
- Needs of staff and other administrative functions of the space were highlighted.
 - Currently, the two social workers on staff share an office space. When seeing clients, they are required to find additional meeting space to ensure privacy of the residents.
 - Two members of the programming staff currently have no desk or office space.

Recommendations for the Town of Needham Center at the Heights

In addition to the recommendations for safety and accessibility outlined in the IHCD report (**Appendix D**). We make the following recommendations to the Town of Needham's Department of Health & Human Services. These recommendations are for the consideration of the Town and the staff of the CATH. These recommendations are listed in no particular order and some will be attainable in the short-term while others may take longer range planning.

Programming and Social Engagement Space

Increase opportunities for access to fitness equipment and classes. Physical
activity came through as an interest, valued activity, priority for expansion,
observation by staff, COA board, other COA directors—it was a very clear message
that additional space and capacity is needed to meet the demands of the
community.

 Consider swapping the fitness room (Room 123) with the larger sized game room (Room 118).

- *Consider increasing the square footage of the existing fitness room by reducing hallway access and incorporating all of the square footage from Room 125 and partial square footage from the pantry. (Break room access would shift to the hallway).
- *Consider merging two of the second-floor programming rooms (room 216 and 217) for secondary, non-equipment, fitness space. This space would increase opportunities for larger classes including yoga.
- Consider replacing the desktop computers in the computer lab (room 212) with laptops that can be checked-out and used around the CATH. This would still allow for tax preparation and SHINE counseling to take place in the computer lab room, but would open space for additional programming space needs.
 - Further, a dividing wall could be purchased to create two smaller spaces for meeting or programs.
- Ensure that all programming space and group meeting space is equipped with the ability to have residents join by video conference. In addition, complete the process of making the Great Room accessible for those who are deaf or hard of hearing.
- Enlist volunteers to generate ideas for patio programming. See additional detail for outdoor space opportunities below.
- Consider increasing the frequency of the hot breakfast program to promote use
 of the kitchen space. In addition, revise rental policies to encourage other
 community partners to host fundraisers or events using the kitchen and dining
 area.
 - Encourage private residents or businesses to use the space on evenings or weekends for a small fee. Revenue from these events could be used to expand the building monitor position or other fees associated with keeping the building open after operating hours.
- Expand areas for small social gathering and seating. Consider space in oversized hallway 215 for additional social engagement seating. For example, install a small comfortable couch with reading light.
- *Consider reducing two story lobby to expand programming and social engagement space at the 2nd level reading landing (220) adjacent to the deck.

² *Suggestions for re-purposed space that involve minor structural changes are conceptual and an architect should be consulted to evaluate proposed revisions.

Programming Storage Space

- Increase interior wall storage in programming rooms. Convenient in-room storage reduces the need to move equipment and tables among room and increases opportunities to repurpose existing standalone closet storage.
- Identify conditions that would make the basement space adequate for additional storage use. Consider using this space for seasonal items or extra tables and chairs used for large events.
- o Install storage shelving or cabinetry inside of the coat room (room 102).

Business Administration Schedule and Space

Schedule

- Consider the expansion of evening and weekend hours to maximize opportunities for programming during less crowded hours and to meet the needs of residents with schedules that are restricted on weekdays. Consider use of volunteers to staff these piloted hours.
- Consider online registration for programming to decrease traffic at front lobby reception area during high volume attendance.
- o Install a secondary *MySeniorCenter* kiosk in the receiving area (room 127) to ensure that all participants are being counted.

Office Space

- Modify the health clinic room (221) to include a small meeting area and/or multiple workstation spaces. Consider removing the exam table.
- Create an additional workstation adjacent to the current administration area (225) outside of the health clinic room. Consider a portable divider to create a desk space.
- Consider relocating the copier (Room 111) to an alternate space to create a workspace adjacent to the smaller transportation office.
- Consider re-purposing storage areas for office space (Rooms 102, 125, 130, 218 and 220). This possibility is contingent on creating additional storage along interior walls of programming rooms. Room 102 offers potential for a secondary reception area.

Outdoor Space

Outdoor Patio

 Revise building policies to allow for food and beverage consumption on the outdoor deck. A small food service area in adjacent space or a mobile food cart could offer snacks and beverages.

 Increase programming that is suitable for outdoor space including chair exercise, gardening classes, and outdoor dining. Enlist participants, board members, or volunteers to generate a list of possible programs to be held on the patio, pilottest these ideas.

- Consider an awning or shade structure such as a pergola or trellis to offer protection from sunlight, rain, and wind.
- o Provide "age-friendly" seating (e.g., with arms, backs and weather resistant cushion) with access to tables for programming and potential dining.
- Improve acoustics to reduce undesirable sounds and incorporate appealing soundscape elements. Consider the use of dense plants or faux planters for noise reduction purposes; these could take the shape of dividers to increase the number of seating areas on the patio and also offer audio support for those with trouble hearing while outdoors.
- Explore the opportunity to create an outdoor fireplace at the location of existing library fireplace. Alternatively, purchase outdoor heat lamps to provide some heat in cooler months. This could extend the seasonality of the space.

Parking

- Identify on-street parking spots and designate them as giving priority to CATH participants.
- Explore opportunities to create a satellite lot that is within walking distance or provides opportunity for pickup coordinated with existing CATH transportation services.
- Create incentives for car-pooling (e.g., program discounts, gift cards to local businesses, or gift shop credit).

Introduction

The Town of Needham is approximately 12.75 square miles in area and is home to a population of just over 30,000 residents. As a suburb of Boston, it falls in close proximity to major thoroughfares like the Massachusetts Turnpike and Interstate 95. Train and bus service to Boston and surrounding towns is available in Needham via the Massachusetts Bay Transportation Authority (MBTA). As a community that strives for excellence, it is not surprising that Needham consistently receives the highest bond rating for its fiscal responsibility, and in 2015 the Town of Needham opened a newly constructed, state of the art senior center. Referred to as the Center at the Heights (CATH), this 20,000 square foot building is home to social, recreational, professional, health, and social service programs serving the Town of Needham.

Establishment of the CATH represents fulfillment of a promise following 20 years of planning and substantial input from the community, architects, and aging service professionals. The design focused on the Council on Aging's mission to serve the community. The building has several "multipurpose" rooms that can host a variety of programs ranging from a movie night to fitness classes, art classes or bridge. Most rooms in the CATH are equipped with a television screen that is capable of meeting basic audio visual needs. Natural light abounds in the space and there are several areas for sitting and visiting (e.g., the café and the lobby).

According to annual reports from Fiscal Year (FY) 2019, on any given day the CATH welcomes approximately 200 visitors for programs and services. Over the course of the year, nearly 2,000 individuals visit the center for a total of nearly 70,000 visits. According to attendance records from FY 2019, popular programs include social events like luncheons or parties, educational programming and fitness offerings. In addition, crucial social services are administered through the CATH, with staff offering assistance for like MassHealth applications, fuel assistance, tax preparation, transportation services, and other programs and services.

Having been open to the public for 5 years, the Town decided to review the utilization of the CATH space and its alignment with the needs of the community as well as to identify any areas where accessibility and safety could be improved for the benefit of the public. Thus, a two-part study was commissioned by the Town to address possible adjustments meant to ensure that the CATH space remains a point of pride for the Town of Needham. To accomplish this task, two expert partners were enlisted by the Town of Needham.

The Institute for Human Centered Design³ (IHCD) was hired to conduct a comprehensive accessibility and inclusive design assessment of the Center at the Heights (CATH). In addition to

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³ https://www.humancentereddesign.org/

being home to the New England Americans with Disabilities Act (ADA) Center, which provides access to information and guidance on disability rights laws and codes, IHCD provides education and consultation about best practices that go beyond legal requirements to design places, things, communication and policy that promote design that works for everyone across the spectrum of ability and age and enhances human experience.

To assess the use of space in meeting the needs and preferences of the aging population of Needham, the Center for Social & Demographic Research on Aging⁴ (CSDRA) within the Gerontology Institute at the University of Massachusetts was included to gather data about the needs and preferences of residents and to draw on the existing knowledge about high-quality senior center spaces.

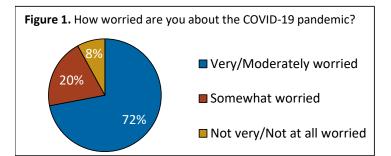
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⁴ www.umb.edu/demographyofaging

Important Context: responding to the COVID-19 pandemic

This project was commissioned in the Spring of 2020, at the same time as the world was responding to the COVID-19 pandemic. Residents of Needham were asked to remain at home, wear face coverings when in public, and the CATH (like many other public spaces) was closed to the public in response to public health guidelines. The components of this project were largely carried out remotely using electronic mechanisms. Although learning about the impact of the pandemic was not the stated purpose of this report, it is important to recognize the impact of this unprecedented crisis on the data collected.

A small number of questions were included regarding how residents are experiencing the COVID-19 pandemic. To illustrate, we are including results from the community survey (N=679 residents age 60 and older). One-third of survey respondents reported being "very worried" about the pandemic and 42% reported being "moderately worried" (see **Figure 1**). This highlights the impact of the pandemic on the lives of Needham residents age 60 or older.



About 18% of survey respondents took the time to write in other concerns they had about the weeks and months. Themes and verbatim responses are shown in **Table 1**.

Table 1. Write-in responses about other concerns about the weeks and months ahead.

Inability to be with family, friends, and neighbors during difficult times.

(I'm concerned about...) not being able to be with our loved ones not being able to hold our grandchild. We decided not to care for our 3 grandchildren age 5, 8 & 11 every Tuesday as we had been doing - we miss them so much!

(I'm concerned about) loneliness.

My 89-year-old mother has it (COVID-19). I am concerned about losing her.

(I'm concerned about) coordinating family matters to support my mother who is 97.

Limitations on engaging with the community.

(I'm concerned about...) how to be confident that it is safe to attend a meeting or concert.

(I'm concerned about...) having so many things unavailable like the senior center, the library, the gym etc. etc. I understand it was necessary but it was and continues to be very hard.

Concerned about not attending religious services or social gatherings.

Economic impact on individuals and family/friends.

I fear for my adult children's job security, now that they are starting families.

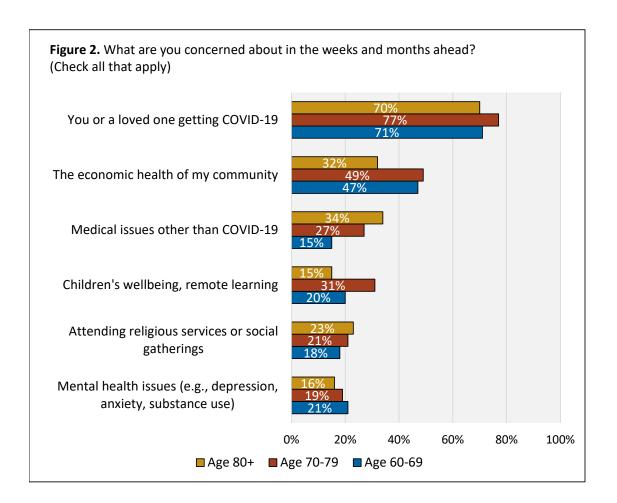
My adult children's careers and mental health and child care for our grandchildren in another state.

General financial health as I approach retirement...including real estate taxes that are quite high.

(I'm concerned about...) my business, having to declare bankruptcy.

Important Context: responding to the COVID-19 pandemic CONT...

Across age groups, respondents reported being most concerned about themselves or their loved ones getting the virus (73%). Additionally, respondents reported concerns about the economic health of their community (45%), medical issues other than COVID-19 (23%), and children's wellbeing, including remote learning (23%) (see **Figure 2**). Additional concerns were rated by fewer respondents, these are listed in **Appendix A**.



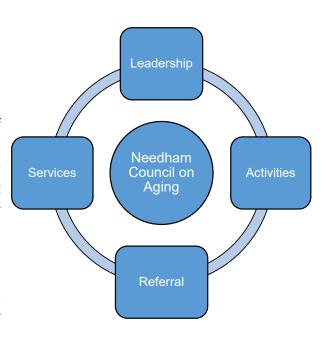
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The Needham Council on Aging & the CATH

In Massachusetts, Councils on Aging (COAs) are municipally-appointed agencies meant to link older residents to needed resources. Virtually every city and town in Massachusetts has a COA, and in most communities they serve as the only public social service agency. Each COA is expected to establish its own priorities based on local needs and resources. Many COAs are responsible for operating a Senior Center, a community facility housing senior services and programs, along with the staff and volunteers offering them. The Needham COA is tasked with providing information and some direct services to Needham residents age 60 and older. The Needham COA's mission includes "to respond to its older residents' needs by providing a welcoming, inclusive, and secure environment where individuals and families benefit from programs, services, and resources that enhance their quality of life, and provide opportunities

for growth and knowledge.." The purpose of this study is to identify the aspects of the environment that can be adjusted to ensure that a "welcoming, inclusive, and secure" environment is maintained for Needham residents.

In general, when considering the mission of COAs, observers commonly think of two sets of responsibilities. First, COAs promote wellbeing among older residents by offering activities that appeal specifically to older adults and that promote personal growth and social engagement. Exercise classes, late-life learning programs, and informational programs are good examples. Second, COAs provide services to older residents and their families that promote physical and emotional wellness. Blood pressure clinics and



transportation services are common examples of such services. Many observers are not aware of two additional important responsibilities of COAs. COA staff members link older residents in the community to existing programs for which they may be eligible by providing needed information and referring residents to appropriate programs and services. For example, staff may help residents apply for income support programs or health insurance made available through

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⁵ Retrieved from https://www.needhamma.gov/525/Who-We-Are

the state or federal government. Finally, COAs provide leadership within the community around issues faced by older adults, by serving on municipal boards, interacting with other municipal offices, and serving as resources to residents and organizations.

The Needham COA offers programs and services at the CATH and also serves as the regional hub for the SHINE program. The Needham COA is supported with support from the Town, funds from the State's Executive Office of Elder Affairs and other grants.

The CATH operates Monday through Friday from 8:30am-5p. There are 16 staff members and many volunteers. The CATH Board of Directors is made up of 12 resident members, acting as an advisory committee to the COA Director.

Methods

Methods used in compiling this report include analysis of existing data as well as developing data specifically for this project. Demographic material used in this report was drawn from the U.S. Census Bureau (the decennial censuses and the American Community Survey), from projections generated by the Donahue Institute at the University of Massachusetts and the Metropolitan Area Planning Council, and from the Healthy Aging Data Report for Needham (Massachusetts Healthy Aging Collaborative, n.d.). Additional information about the Needham COA was retrieved from material drawn from the COA's 2019 Annual Report as well as several types of original data collected for this study. Given that this study took place in the Spring of 2020 during the height of the COVID-19 pandemic, all data collection was carried out remotely. These methods are described in detail in this section.

Demographic Profile

As an initial step toward understanding characteristics of the Town of Needham's older population through quantitative data, we generated a demographic profile of the Town using data from the decennial U.S. Census and the American Community Survey (ACS)—a large, annual survey conducted by the U.S. Census Bureau. For purposes of this assessment, we primarily used information drawn from the most current 5-year ACS files (2014-2018), along with U.S. Census data for the Town of Needham to summarize demographic characteristics including growth of the older population, shifts in the age distribution, gender, race and education distributions, householder status, living arrangements, household income, and disability status.

Community Survey

In collaboration with the Town of Needham, a community survey was developed for this study and made available online and over the telephone for Needham residents age 60 and older. A mailing list was obtained from the Needham Town Clerk, based on the most current municipal census and omitting residents of nursing homes and those who had recently moved (N=8,288).

Postcards were mailed to participants alerting them about the survey and providing details to access the survey online and by telephone. The survey was provided through the *SurveyMonkey* website. A total of 679 responses to the survey were obtained, representing a return rate of 8%. In **Appendix A**, response distributions are shown by age group.

Peer Community Comparison

We conducted interviews with directors of senior centers in Marshfield, Lexington, Natick, Newton, and the former director of the Needham Council on Aging. The directors were chosen due to their professional experiences and/or their town having built a new senior center building in the previous 10 years. Directors were asked about features of the senior centers they operate, including programming and staffing. Requests for information were issued by email, and a designated time to talk by telephone was determined. Additional information on selected COAs was retrieved from their websites.

IHCD Building Assessment

Staff from IHCD reviewed architectural plans for the CATH for accessibility compliance and overall safety. In May 2020, a virtual "walk-through" of the space was facilitated by the Town of Needham for project team members from both IHCD and UMass Boston Gerontology. This video tour of the building was done via Zoom. An in-person survey of the space was completed by IHCD in June 2020. The survey concentrated on all public entrances, emergency exits, accessible routes to elements, areas used by members of the public such as the community room, the café, the art room, etc. Also included in the IHCD survey were the toilet rooms and the parking area.

Focus Groups

In order to understand the current utilization of the space, two focus groups were conducted via Zoom in June 2020. One of the focus groups included 6 members of the Needham Council on Aging board and the second included 7 members of the staff from the Center at the Heights. Both conversations centered around features of the building that facilitated participation or created challenges for patrons. Discussion sparked conversations about ideas for maximizing the space moving forward. Both focus groups were recorded and notes were taken by members of the UMB research team.

Data Analysis

Data collected for the resident survey were analyzed using simple descriptive statistics, including frequencies and cross-tabulations, and are reported in full in tables contained in **Appendix A** and throughout the results section of this report. Some responses elicited through open-ended questions were extracted and cited verbatim within this report (e.g., "From your perspective, how could the space at the Center at the Heights (CATH) be better utilized?"). Notes taken during the study's qualitative components (e.g., focus group, peer community interviews) were

reviewed by project staff and used to characterize and categorize salient ways in which aging issues are impacting older adults and individuals who work with older adults in Needham. Information collected about the selected peer community COAs was used to inform recommendations made to the Town of Needham. We used information from all sources of data to develop recommendations reported in the final section of this report.

Results

Demographic Profile of Needham

Age Structure and Population Growth

According to American Community Survey (ACS), there were about 30,735 residents living in the town of Needham in 2018. About 40% of the population (12,426) were age 50 and older (See **Table 1**). Residents who were age 50 to 59 made up 16% of the population; residents age 60 to 79 comprised around 18%, and another 6% were age 80 and older.

Table 1. Number and percentage distribution of Needham's population by age category, 2018

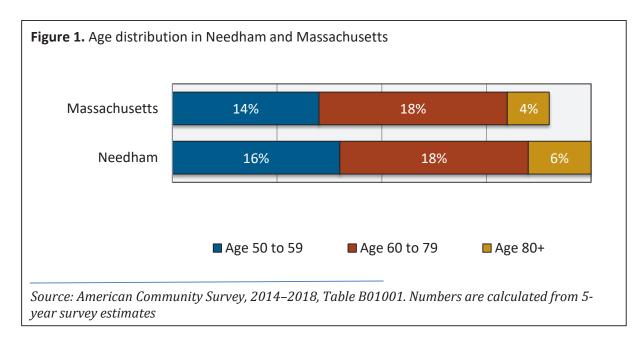
Age Category	Number	Percentage
Under age 18	8,231	27%
Age 18 to 49	10,078	33%
Age 50 to 59	4,930	16%
Age 60 to 79	5,744	18%
Age 80 and older	1,752	6%
Total	30,735	100%

Source: American Community Survey, 2014-2018, Table B01001. Numbers are calculated from 5-year survey estimates.

Across all age groups, women make up a majority of Needham's population (52%) (*ACS, 2014–2018, Table B01001*). However, the percentage female differs across age groups. For instance, among people under 18 in Needham, 48% are female; in contrast, among Needham's population age 80 and over 65% are female. The greater number of older women is due in large part to longer life expectancies of women compared to men—a demographic disparity that is widely observed in older populations globally.

The share of the population age 50 and older is larger in Needham than in the state of Massachusetts overall (**Figure 1**). About 36% of the Massachusetts population was in the 50+ age group in 2018, compared to 40% of the Needham population. Compared to the Commonwealth, Needham had also a higher proportion of residents age 60 and older. In 2018, Massachusetts

residents age 60 and over comprised about 22% of the population, including 4% age 80 and over. In Needham, about 24% of the population was 60 or older, including 6% who were 80 years or older.



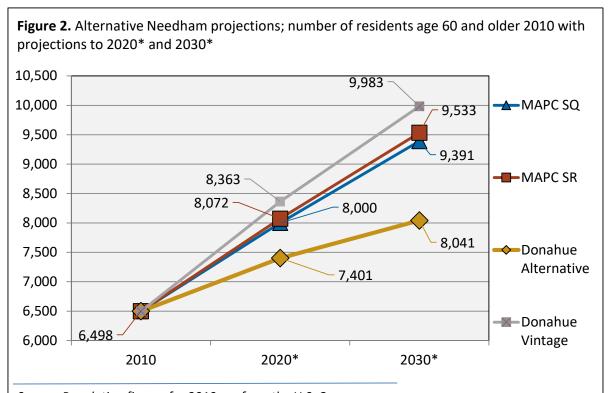
Population growth in both Massachusetts and the town of Needham has been concentrated in older age groups. Between the decennial censuses of 2000 and 2010, the all-age population increased by 3% in the state as a whole but had virtually no change in Needham (*US Census for 2000 and 2010, Table QT-P1*). For the age 60 and older group, Needham's growth represents a sharp contrast from the state. Between the 2000 and 2010 decennial censuses, the population of residents who are age 60 and older increased by 16% for the state, but just 2% for Needham. However, the number of residents age 50-59 increased by 24% in Needham, and it is likely that many of these individuals stayed in Needham as they "aged in place." Indeed, if the 2018 population estimate from the ACS for 2018 is correct, the population of residents age 60 and older represents an increase of 18% over what was counted in the 2010 Census. Projections suggest that the number of older residents will grow in the coming decade. Figure 2 shows four sets of projections for Needham's population age 60 and over. Two sets are generated by the Donahue Institute at the University of Massachusetts, and two by the Metropolitan Area Planning Council (MAPC). All of them suggest steady increases in the number of older residents between

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⁶ Similarly, the Town Census for Needham, dated March 3, 2020, shows 8,179 residents age 60+ as of that date, which reflects 26% growth in the population age 60 and older following the 2010 US Census.

2010 and 2030, resulting in an age 60+ population numbering between 8,000 and 10,000 by 2030.⁷

Figure 3 shows the age distribution of Needham's population from 1990 to 2010, and population projections for 2020 and 2030⁸. In 1990, about 22% of the town's population was age 60 and older; this percentage stayed the same in 2000 and 2010.



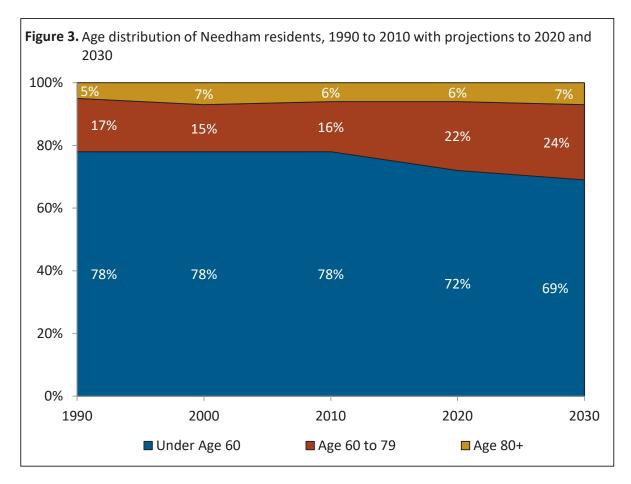
Source: Population figures for 2010 are from the U.S. Census.

^{*} The four sets of projections for 2020 and 2030 are from two different sources: 1. Donahue Alternative and Vintage projections are estimated by the Donahue Institute, University of Massachusetts http://pep.donahue-institute.org/ 2. MAPC Status Quo (SQ) and Stronger Region (SR) Scenarios projections are prepared by the Metropolitan Area Planning Council https://www.mapc.org/learn/projections/

⁷ The most recent data from the American Community Survey offers an estimate of about 7,500 Needham residents age 60 or older as of 2018, suggesting that the MAPC projections may be tracking the best with available. Moreover, as noted, the Town Census for Needham has the age 60+ population at just over 8,100 in March 2020. Together, these observations suggest that the Donahue Alternative projections are probably too low, and Needham appears to be on track to have between 9,400 and 10,000 residents age 60+ in 2030.

⁸ Population projections are shaped by assumptions about birth rates and death rates, as well as domestic and international in-migration and out-migration. The projections used here also account for population change associated with aging of the population, which is a strong predictor of future growth and decline of populations.

According to projections created by the Metropolitan Area Planning Council (MAPC) (Stronger Region Scenario), a trend toward an older population is expected in future decades. Projections suggest that by 2030, more than three out of ten Needham residents will be age 60 or older—24% of the Town's population will be between the ages of 60 and 79, with an additional 7% age 80 and older.



Source: Population figures for 1990 thru 2010 are from the U.S. Census. Figures for 2020 and 2030 are from MAPC Stronger Region (SR) Scenarios prepared by the Metropolitan Area Planning Council https://www.mapc.org/learn/projections/

Socio-Demographic Composition of Needham's Older Population

Needham's population is less diverse than the state with respect to race. For all ages combined, about 83% of Needham residents are White race and not Hispanic, compared to 72% in Massachusetts (*ACS*, 2014–2018, Table B01001). Among older adults, Needham is less diverse. **Table 2** displays the race and ethnicity of Needham residents age 65 and older. The large majority of older residents report their race as White (94%). The remaining percentage of the population

age 65 and older reported their race as Asian (4%) or Black (2%). Fewer than 1% report Hispanic ethnicity (not shown).

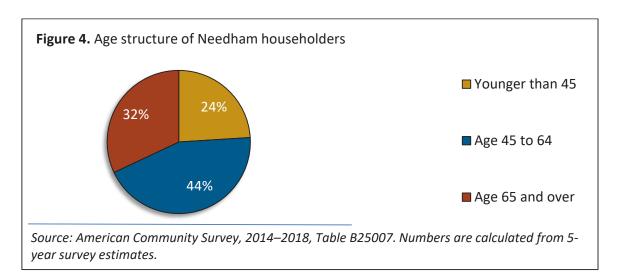
Table 2. Race distribution of residents who are age 65 and older in Needham

Race	Number	Percent	
White	5246	94%	
Asian	198	4%	
Black	116	2%	
Total	5,560	100%	

Source: American Community Survey, 2014–2018, Tables B01001A-I. Numbers are calculated from 5-year survey estimates.

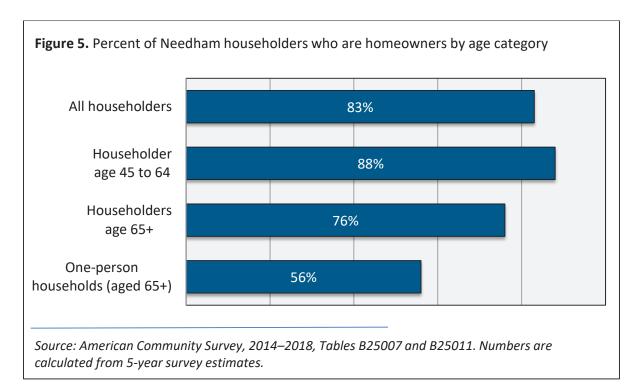
Additionally, almost 13% of older Needham residents speak a language other than English at home (*ACS*, 2014–2018, Table B16004), including 8% who speak an Indo-European language, 3% who speak an Asian or Pacific Island language, and an additional 1% who speak another language.

A majority of Needham's households have householders who are middle-aged or older. According to the U.S. Census Bureau, a "householder" is the person reported as the head of household, typically the person in whose name the home is owned or rented. Residents age 45 and older are householders of 76% of all households in Needham including 32% who are age 65 and over (Figure 4).



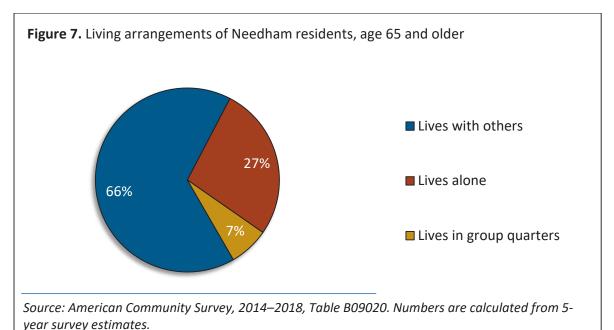
A large share of Needham residents lives in homes that they own or are purchasing (83%; **Figure 5**). Eighty-eight percent of residents age 45 to 64 and 76% of householders 65 and older own their homes. More than half of Needham's residents who are 65 and older and live alone, also

own their home (56%). Home maintenance and supports are often necessary for older homeowners—especially those who live alone—in order to maintain comfort and safety in their homes.



Additionally, 45% of Needham's households have at least one individual who is age 60 or older (*ACS 2014–2018, Table B11006*). This high proportion— which is likely to increase in the future—generally reflects the widespread demand for programs, services, and other considerations that address aging-related concerns, including health and caregiving needs, transportation options, and safe home environments.

About 27% of Needham residents who are age 65 and older live alone in their household whereas two-thirds (66%) live in households that include other people, such as a spouse, parents, children, or grandchildren (**Figure 7**). Additionally, around 7% of older Needham residents live within group quarters.



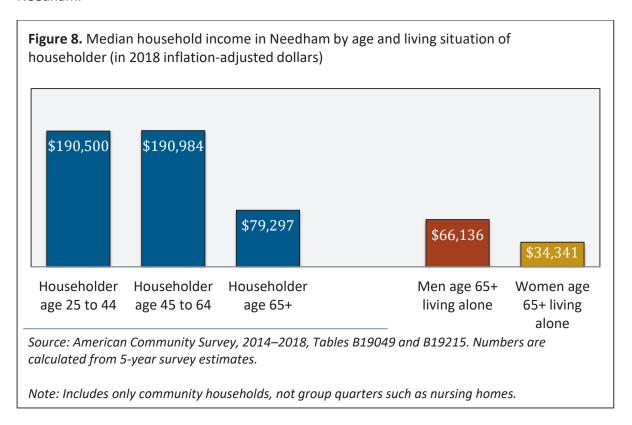
American Community Survey estimates on education suggest that Needham residents are well educated on average. About 63% of persons 65 and older have obtained at least a bachelor's degree (ACS, 2014–2018, Table B15001). This educational profile contributes to the vitality and character of the community, which depends on older adults who value opportunities to be involved through volunteer and civic engagement activities, as well as late-life learning opportunities— activities that are often present in highly educated communities (Fitzgerald & Caro, 2014).

Similar to older adults living in communities throughout the U.S., a sizable proportion of Needham residents aged 65 and over remain in the workforce. Almost 43% of adults age 64 to 74 are participating in the labor force. Of those age 75 and older, nearly 10% remain in the workforce (ACS, 2014–2018, Table S2301).

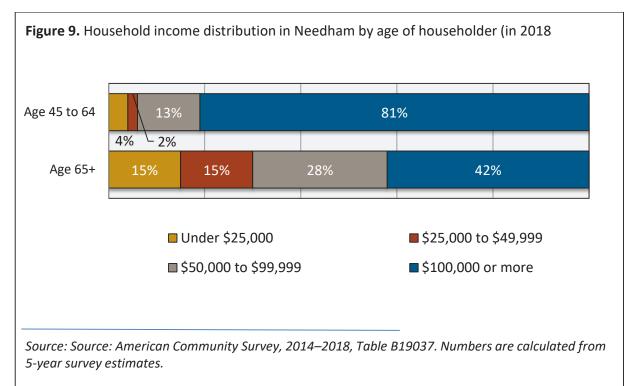
More than 30% of men age 65 and older report veteran status, along with a small number of older women (*ACS*, 2014–2018, Table B21001). As a result, many of the Town's older residents may be eligible to receive some benefits and program services based on their military service or that of their spouses.

Needham residents' median household income is nearly twice as high as that estimated for Massachusetts as a whole, \$153,032 compared to \$77,378. Needham's householders age 45 to 64 have the highest median income at \$190,984 (see **Figure 8**)—which is also greater than the statewide median for this age group (\$96,031). Among Needham householders 65 and older, the median income is \$79,297, also higher than the statewide median for this age group (\$47,486).

Older residents living alone have lower incomes, particularly women living alone. Older men age 65 and over living alone have higher median income compared to older women living alone in Needham.

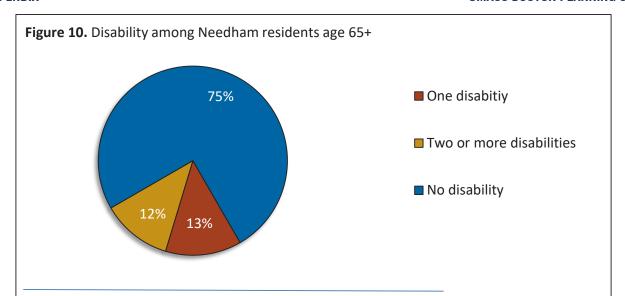


The economic profile of older Needham residents relative to younger residents is further illustrated in **Figure 9**, which shows that a share of the older adult population lives on a modest income. Although about 42% of Needham residents age 65 and older report incomes of \$100,000 or more, 15% report annual incomes under \$25,000 in comparison to 4% of households headed by individuals age 45 to 64 reporting the same household income. These figures make clear that a large share of Needham residents have adequate incomes, although some segments may be struggling financially.



Many Needham residents age 65 and older experience some level of disability that could impact their ability to function independently in the community. About 13% of Needham's residents age 65 and older have one disability, and nearly 12% report two or more disabilities (**Figure 10**). Among the different types of disability that are assessed in the ACS, the most commonly cited by older Needham residents age 65 and older were ambulatory difficulties (difficulty walking or climbing stairs; 16%), hearing problems (12%), and independent living limitations (difficulty doing errands alone, such as visiting a doctor's office or shopping; 10%). Other disabilities experienced by older Needham residents include self-care difficulties (6%), cognitive difficulty (6%), and vison difficulty (4%) (ACS 2014–2018, Table S1810).

Note: Includes only community households, not group quarters such as nursing homes.



Source: U.S. Census Bureau; American Community Survey, 2014–2018, Table C18108.

Percentages by age group do not sum to 100% because people may report multiple difficulties and

According to data from the Massachusetts Healthy Aging Collaborative⁹, an estimated 15% of Needham residents age 65 and older have Alzheimer's disease or a related dementia and 56% have four or more chronic conditions. Considering a large number of health dimensions, Needham's health profile is similar to the Massachusetts average along most, although better on some and worse on others compared to Massachusetts as a whole. These health indicators suggest that the physical needs among Needham older adults are quite varied across residents.

Hearing from Focus Group Participants

Two focus groups were facilitated via video conferencing in June 2020. One group included 6 members of the Needham Council on Aging Board and the second included 7 members of the staff of the Needham Center at the Heights. Conversations focused on the ways that the current space is being utilized and identifying opportunities to make more efficient and effective use of the space to meet the needs and preferences of older residents. Participants shared many challenges associated with the building's design and offered some solutions. Themes from these two conversations are summarized in this section.

A few overarching challenges were identified by participants in these groups. These challenges warrant consideration as the CATH moves forward with planning for the future. Participants

⁹https://mahealthyagingcollaborative.org/wpcontent/themes/mhac/pdf/community_profiles/MA_Towncode199_ Needham.pdf

agree that the CATH is a great asset to the community of residents who cross its threshold. However, focus group participants believe that a sizable segment of the community has not been reached and could potentially benefit from participation. Another major challenge identified by focus group participants is the lack of accessible and convenient parking. Out-of-town guests are drawn to the CATH because of its beautiful space and welcoming staff; but they also take up parking spots that could be used by Needham residents. With nearly 200 visitors daily, and only 83 parking spots, the remaining alternatives for getting to the CATH include utilizing the shuttle service, carpooling, or parking on the side-streets and walking over to the Center. An additional theme from these conversations is the agreement that the CATH is currently operating at capacity, and any additions to programming or services would need to be accompanied by expanded staffing and space. Finally, lack of storage and staff to take-down and re-assemble tables and chairs were identified by CATH center staff as being a barrier to multipurpose use of rooms (e.g., there is nowhere to store equipment when room is being used for another purpose). The coat room was identified as possibly being re-purposed as a storage space. A position is currently open for a building monitor staff person, who could take responsibility for the physical tasks associated with moving equipment and furniture as spaces are converted to multiple uses during the day. However, that position is planned for just 10 hours per week, or less than onethird of the total programming time each week. In both focus group conversations, specific spaces were named as places that could be possibly repurposed or improved upon. As well, suggestions were made as to how to accomplish these goals. Spaces identified for re-purposing or expanded use are described below:

Outdoor Patio: According to focus group participants, the second-floor outdoor deck and outdoor seating areas are valuable but underutilized. Efforts to make the space more accessible may include the installation of an awning to block sunlight and noise cancelling planters or dividers to create smaller spaces to gather with better acoustics. Additionally, a focused effort to develop programming specifically for this outdoor space is needed to maximize its use. It could be possible to enlist current participants or volunteers to generate ideas for programming to be pilot-tested. Finally, relaxing the policy of "no food or beverage" in this outdoor space could attract participants to use the space for gathering informally, weather permitting.

Office spaces: Currently, the two social workers on staff share an office space (room 206, see **Appendix B**). This means that if someone is seeing a client, the other has to leave the room and find another place to work. Similarly, if they both have client meetings, one has to find private meeting space to conduct this confidential business. While this is usually successful, it is not always reliable. Two members of the programming team do not have office or desk space of their own.

Fitness Room: In response to increasing demand, and now the need for "social distancing" due to the COVID-19 pandemic, additional space for fitness and exercise is paramount. Given that the game room (room 118, see **Appendix B**) is 300 square feet larger than the fitness room (room 123, see **Appendix B**), one option would be to switch the use of the two rooms. This change would also align with the growing trend in senior centers for expanding fitness resources for participants.

Game Room: Currently, the game room (room 123, see Appendix B) contains two billiards tables and one ping-pong table. In addition, a computer station and a storage closet are included in this space. Given that the tables and computers cannot be moved easily, when games are not underway, this sizeable space is left unused for segments of the day. If the fitness room and the game room were switched, it would be necessary (due to space constraints) to reduce the number of tables in use at a given time. For example, purchasing a folding ping-pong table that could be stored when not in use or obtaining a ping-pong "conversion top" to be used on top of a billiards table could accommodate both pool players and ping-pong players alike.

Computer Lab: During open enrollment for Medicare (12 weeks) and tax preparation season (10 weeks), the computer lab is used at full capacity. In the remaining weeks of the year, it is less utilized.

Kitchen: Aside from a monthly hot breakfast, prepared by staff of the CATH, no on-site meal preparation occurs. The daily lunches and home-delivered meals are prepared off-site by Springwell¹⁰ and delivered to the CATH for warming and distribution. This 540 square foot commercial kitchen space is also used for cooking demonstrations and food-related programs. According to the current rental policy¹¹, the kitchen can be used by outside organizations to prepare meals if they obtain a permit from the Board of Health and retain a custodian for use of this area; but focus groups participants stated that it is infrequently rented by outside entities.

Ideas about the expansion of hours and off-site programming were discussed as a potential mechanism for attracting new patrons and alleviating parking concerns; but it was made clear by focus group participants that additional staffing would be required to cover those additional hours of operation. Although other spaces in town exist, it would require additional staff time to operate at those locations as well as additional building management responsibilities. Finally, it was discussed that when registration for programs begin, the front desk/lobby space becomes very crowded with long lines.

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¹⁰ https://springwell.com/

¹¹ https://www.needhamma.gov/3728/Renting-the-Center-at-the-Heights

Hearing from Peer Communities

In an additional step to obtain insight about the use of senior center space, five directors (or former directors) of Massachusetts senior centers were interviewed. The communities chosen for this comparison were selected jointly by the Director of Needham's Health and Human Services Division and research staff at UMass Boston. In June 2020, interviews were conducted by phone with Council on Aging Directors in Marshfield, Lexington, Natick, and Newton, and the former director of the Needham Senior Center, to learn about their experiences adapting to new space and considerations for space utilization moving into the future. A summary of analogous characteristics, peer highlights and dissimilarities are detailed below.

Needham has the smallest amount of physical space compared to its peers (see **Table 3**). Both Lexington and Natick operate as community centers that also house the senior center activities and programs. Common challenges faced by nearly all of the peer communities included a need for additional storage and lack of parking (except for Lexington). As well, gift shops were present in each of the peer communities and served as a revenue generator for senior center programming. A final similarity across peer communities was the recognition of increasing programming schedules to evenings and weekends.

Table 3. Summary of Peer Communities

Town	Population Age 60+*	Size of Space	Year Built
Needham	7,496	20,000 square feet	2015
Natick	7,791	36,000 square feet	2012
Marshfield	6,264	12,600 square feet, 11,200 square foot expansion	2003, 2020 expansion
Lexington	8,435	32,000 square feet	2015
Newton	21,039	Proposed 36,888 square feet	Expected 2022

^{*}Sources: American Community Survey, 2014–2018, Table B01001. Numbers are calculated from 5-year survey estimates. Size of space and year built obtained from COA Directors.

In conversation with Directors of other newly built senior centers, there was universal acknowledgement that the growing level of participation at the centers has driven programming growth and required shifts in planned use of originally designed space. Directors shared with us the following types of adjustments that have been required to accommodate these changes and they highlighted some of the challenges that still remain.

There is increasing need for multi-purpose space; and yet multipurpose space creates challenges for schedules, turnover, and storage.

- Multipurpose space requires staffing to switch over space (move tables, chairs etc.). In one case, a peer community reports having at least 3 programs in their multipurpose room per day, meaning that multiple times per day there is need for re-arranging tables, chairs, equipment and getting any necessary technology set up. These transitions require staff support, which may take them away from other duties. Alternatively, hiring additional staff for this particular position can be a useful way to address the challenge, recognizing that a sufficient amount of time is needed for this person to contribute significantly to reducing the burden of these transitions on existing professional staff.
- Occasionally, space needs drive use of multi-purpose rooms. For example, if a knitting group needs space and the only available room is the computer lab, then that computer lab becomes "multi-purpose" unintentionally. Alternatively, assessing how each of the existing spaces can be used for multiple programming allows for more flexibility in scheduling.

Fitness space is a highly used focal point in all peer towns. Reducing multi-purpose use is important for highly used and in-demand spaces, especially fitness space.

• With dedicated fitness space, Natick and Lexington reported that needs are generally met and fitness space is available. Typically, there is no wait time and scheduling tends to attract older adults during mid-day hours. In Lexington, their fitness space is in the basement and open to residents of all ages. In Natick, an annual fee of \$50 (or \$25 for 6 months) covers the costs of equipment maintenance and new purchases. Marshfield outgrew their fitness space and is incorporating dedicated space for fitness through expansion project

Competing needs for space create challenges in balancing different interests.

- o In most peer communities, it was discussed that a balance is required between programs that bring in large, consistent attendance and those that provide a meaningful experience for fewer participants. One director said, "Success is not defined by numbers but quality of experience." As an example, she noted that the space used for showing movies is underutilized with only a few people attending movies. However, people meet friends while attending, and the space offers an informal social outlet. The movie room also draws people in the evenings who do not attend during the day. Thus, a low-attendance program yields meaningful experiences and opportunity for exposure to new participants.
- As peer community directors discussed efforts to balance multiple interests, it became clear that participants' becoming proprietary over particular spaces was problematic. For example, card players only willing to use one particular room for their games. It cannot be assumed

that one particular space is always used for cards. To address this issue, one director described changing policy to require that each and every use of a room be reserved in advance of its planned use. In other words, space that is used for scheduled programming is reserved by the staff and if patrons would like to use the space to meet with friends or have impromptu meetings, that space must also be reserved prior to its use.

Hearing from Residents: Results from the Community Survey

In this section we report key findings from each section of the survey. Tables illustrating results in detail are included in **Appendix A**.

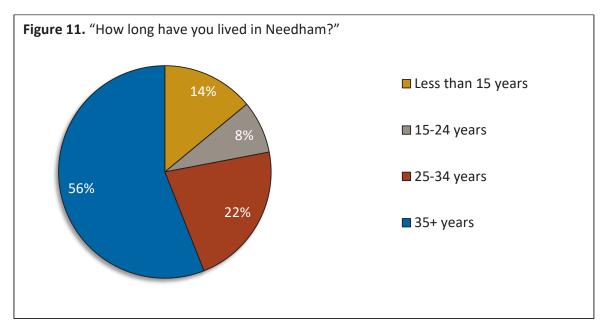
Respondents to the community survey included 679 individuals age 60 and older¹², representing a response rate of 8% (see **Table 4**). To facilitate comparison of younger and older segments of the population with respect to needs and interests, we often present results grouped into three age groups; age group 60-69, age group 70-79 and age group 80 and older.

Table 4. Age	Distribution	of Survey	Respondents
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Age	Number of Responses	Percentage
Under Age 60	18	2%
Age 60-69	286	42%
Age 70-79	266	38%
Age 80+	127	18%
Total	697	100%

Among survey respondents, 22% reported living alone and 7% reported some level of economic insecurity (see Appendix A). In addition, the majority of respondents were female (59%) and 11% of survey respondents reported having a condition that limits their ability to participate in the community as they would like to. Less than 3% of respondents reported speaking a language other than English at home (results not shown). Most survey respondents are long-time residents of Needham, with 56% indicating they have lived in Needham for at least 35 years (see **Figure 11**).

¹² An additional 18 respondents were younger than age 60, too few to support separate analysis of this age group. As a result, those responses were omitted from the analysis—limiting it to those age 60 and older.



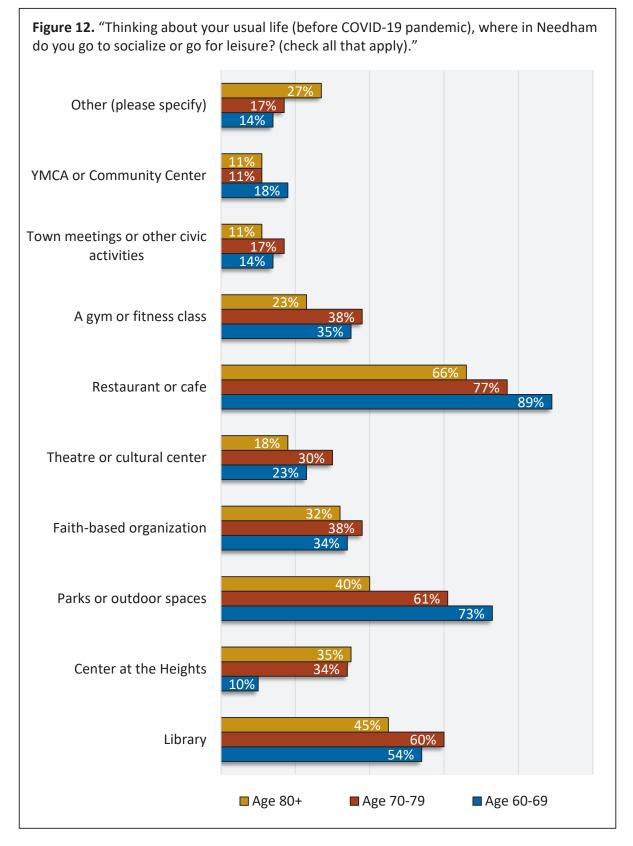
Experience with the Center at the Heights

Needham is a community with many assets, including the CATH. Survey respondents were asked about where in Needham they go to socialize with others and/or where they go for leisure¹³. Across all age groups, going to restaurants or cafes (66-89%%) as well as spending time at parks and outdoor spaces (40-73%) and the library (45-54%) were most commonly reported (see **Figure 12**).

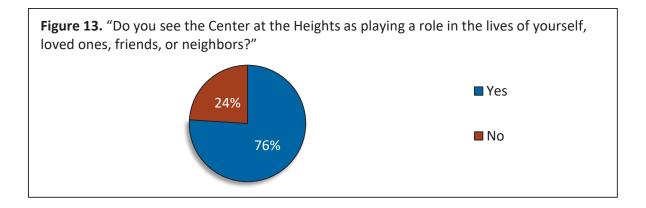
Older survey respondents were more likely to report spending time at the CATH for socialization or leisure. Alternatively, only 10% of respondents in their 60s reported spending time at the Center (see Figure 12).

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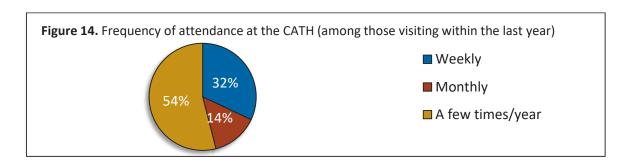
¹³ Here I would put a footnote making clear that respondents were directed to answer most questions based on their "usual life" before the COVID-19 pandemic.

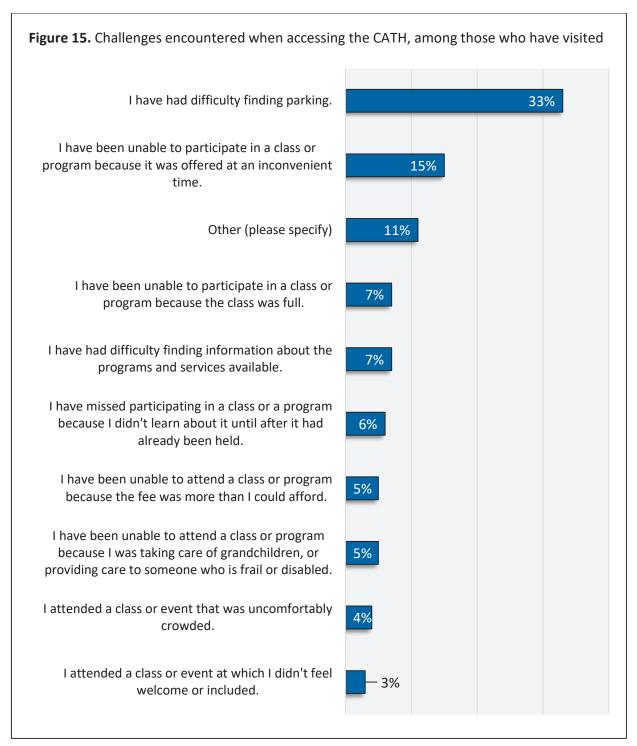


More than three-quarters of survey respondents reported that the CATH plays a role in the lives of themselves and people they know (see **Figure 13**). This positive assessment of the CATH was consistently offered across age groups (see **Appendix A**). This finding highlights that the CATH is widely considered as a community asset and a piece of what makes Needham a good place to age.



Half of survey respondents have visited the CATH within the past year. Participation rates are highest among the respondents age 70-79 (66%) and age 80 or older (61%), and lower among those age 60-69 (31%). Among those who have visited the CATH, 32% report attending on at least a weekly basis (see Figure 14). Among those 80 and older, 47% reported attending on at least a weekly basis (see Appendix A). More than half of CATH visitors report attending a few times a year for events. These results highlight the varied relationships that residents have with the center. Among those who reported having visited the CATH in the previous year, 74% of respondents reported being satisfied or completely satisfied with the programs and services offered (see Appendix A), and this proportion was slightly higher among the older age groups. That being said, 23% of those who reported having been to the center in the previous year reported that they were not familiar enough to judge their satisfaction (see Appendix A). One assumption that could be made is that those who are actively connected to the CATH are highly satisfied, and others that may have only dropped in for a particular event or class may not be as aware of the full breadth of what is offered.





An important aspect of this study was to understand the accessibility issues with the CATH. We asked about challenges that have been faced when attending the CATH. Half of the respondents who had used the CATH in the prior year indicated that they had experienced no issues when

accessing the CATH or its programs. However, one-third reported that finding parking was a barrier to accessing the building and its services (see Figure 15). There are approximately 83 parking spots in the building parking lot and as previously mentioned, nearly 200 residents come to the center on a daily basis. While some use the provided transportation services, others have to park on the streets surrounding the building and walk to the entrance. In inclement weather, or for those with mobility impairments, this can become a barrier to accessing the programs and services that the CATH provides. One survey respondent wrote, "the parking is a real issue or I would go more (often)". The second most frequently reported (15%) challenge to accessing the CATH was the timing of the programs. According the American Community Survey (Table S2301), 71% of Needham residents age 60-64 and 43% of those age 65-74 report still working. Taken together, these two findings could mean that additional evening or weekend programming would increase accessibility to residents in younger age groups. Of course, these expansions of operating hours would also have implications for staff needs. Finally, 107 respondents took the time to write-in an "other" challenge they have faced when accessing the CATH. About half of these comments described the individual having never been to the CATH or being unaware of the programs or services offered there. Other comments described challenges to participation because of employment. For example, one participant wrote, "I am still working full time. Nothing is open at night or on the weekends." Others described physical mobility impairments that prohibited them from getting to the CATH or the cost of programs keeping them from being able to participate.

When asked how the space could be better used, 124 of those respondents who have been to the CATH took the time to write in an answer. These responses are summarized in **Table 4.** Respondents identified the need for more flexibility with current space, citing the need for increased capacity to meet demand for fitness and exercise classes and expanded hours. As well, comments were made about the "institutional" or "cold" feeling of the space and ways that it could be more inviting.

Table 4. Summary of respondents' comments about ways that the CATH space could be better utilized.

Expanded hours would draw in different segments of the older adult population and make the space available to the community more widely.

Since the space isn't used weekends and very little in the evening, members - or any Needham residents - should be able to rent a room for private or family events.

Even more evening/weekend hours. Community activities with different age groups.

Additional space for exercise classes is needed to meet demand by expanding the number of people able to be in the gym.

For seniors like myself who are still working, and my husband works part-time, we would like to see physical fitness classes offered in the evening

Bigger gym area and more bikes to use.

A yoga class that I like is way too crowded.

Create a more inviting environment by improving signage and creating spaces for people to gather informally.

Redecorate/restyle it so it's pleasant to spend time there. The place looks so cold an uninviting.

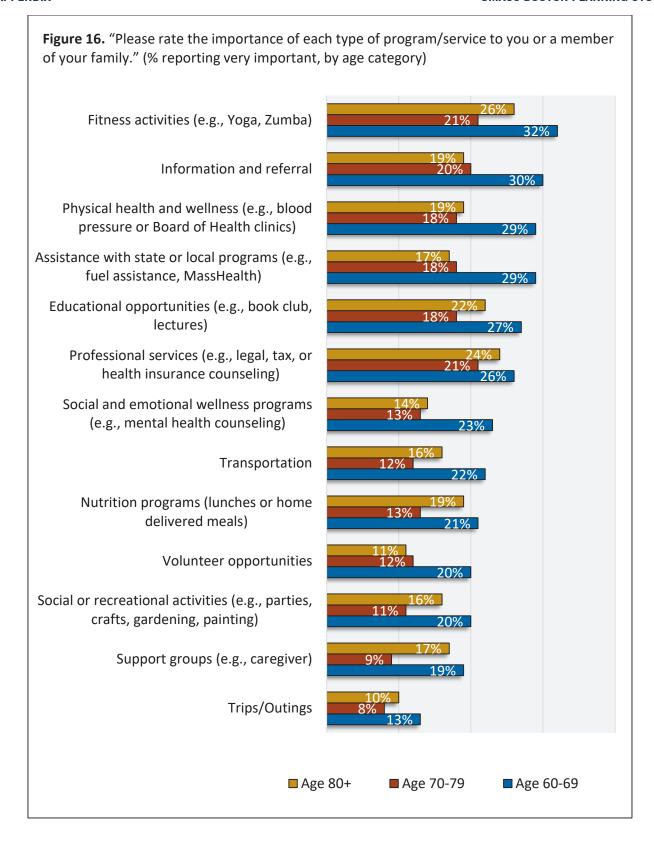
Relaxing lounges, perhaps spaces where small groups could gather

Better signage for specific areas/departments and signage info for specific classes/programs.

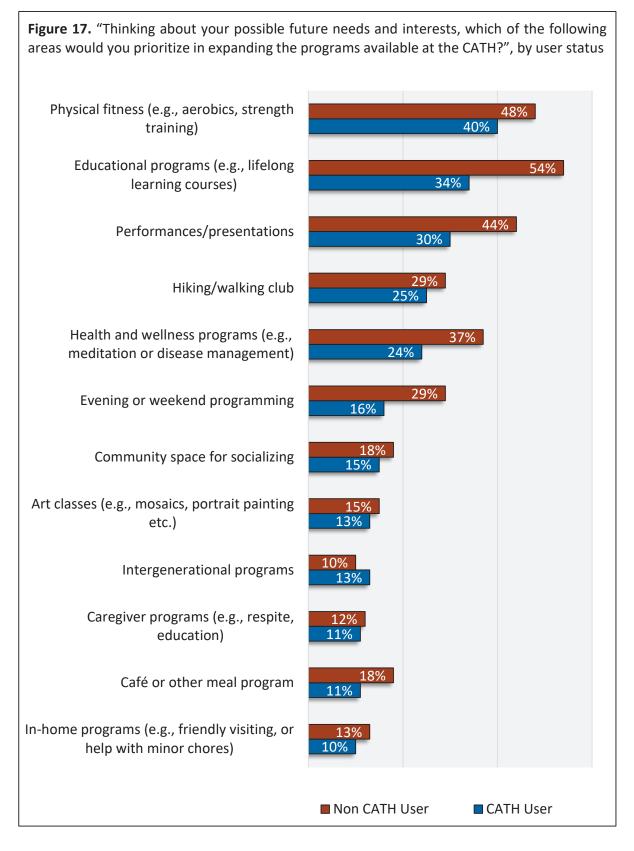
Respondents were asked to rate the importance to themselves or members of their families of the CATH's existing programs and services. In their ratings, respondents across age groups were consistent with their number one choice: fitness activities (e.g., yoga, Zumba) (see **Figure 16**). This result, coupled with the report that most existing fitness classes and sessions are filled regularly, suggests that an increase in space for exercise opportunities would be welcomed.

When it came to the second most valued service, those age 70 and older reported that professional services (e.g., legal, tax, or health insurance counseling) was very important to them. Among those in their 60s, information and referral was named as the second most valued service offered by the CATH. As those embarking on older age or possibly caring for loved ones, it is logical that having a local hub of information and resources to navigate this next part of life is valuable. Educational opportunities were named as a valuable for those age 80 and older—suggesting the importance of lifelong learning opportunities.

In summary, these findings tell us that when it comes to the kinds of programming that are most important to survey respondents are related to <u>help</u> (information and referral, assistance with professional services) and <u>health</u> (fitness, wellness, and education).



In a similar vein, respondents were asked about their future needs and interests with respect to programs and services offered by the CATH. Overall, fitness opportunities (44%), educational opportunities (44%), and performances/presentations (37%) were most commonly reported preferences for future programming (see Appendix A). Figure 17 shows responses among those who reported having been to the CATH in the previous year and those who had not. This comparison could be useful in considering how to reach out to those residents who are not already active users. Interestingly, the priorities among non-participants are very similar to those reported by those who have been to the CATH during the previous year. Both groups rated educational programs and physical fitness as the top two priorities. Among both groups, performances and presentations were identified third most frequently, with health and wellness programs and a hiking/walking club receiving the fourth and fifth most frequent listing as priorities. Age comparisons on this question reinforce the desire for physical fitness and educational opportunities—regardless of age (see Appendix A). For those in their 60s, a hiking or walking club was selected as an area of interest (38%) and for those in their 70s or over age 80, performances and presentations were a highly prioritized set of programs (42% and 25% respectively). These findings suggest that strengthening programming to align more closely with the interests and priorities of people who do not currently attend the CATH, and younger residents, can be accomplished while simultaneously benefitting current participants and residents who are older.



Some write-in responses suggested additional educational opportunities or performances. For example, one respondent wrote, "perhaps taking in plays and concerts would encourage more attendance". Other priorities named in these comments included continuation of fitness programs, movies, trips, and table games (e.g., bridge and mahjong).

Conclusion and Recommendations

Needham's population of older residents is large and growing. Since 2012, the CATH has provided a strong foundation through which staff expertise, programming, and resources are offered to the community. The Center continues to evolve while recognizing the needs of a growing population of older adults with a wide spectrum of needs and interests. The following recommendations highlight opportunities to maximize space and build upon resources to support aging in place and promote physical, social, and emotional wellbeing among residents.

Recommendations for the Town of Needham Center at the Heights

The report completed by IHCD (see **Appendix D**) includes a number of important recommendations to creating more accessible and safe space for CATH patrons. In addition to these technical changes, this report supports a number of recommendations about how the space is used and what types of programs are provided.

We make the following recommendations to the Town of Needham's Department of Health & Human Services. These recommendations are for the consideration of the Town and the staff of the CATH. These recommendations are listed in no particular order and some will be attainable in the short-term while others may take longer range planning.

Programming and Social Engagement Space

- Increase opportunities for access to fitness equipment and classes. Physical
 activity came through as an interest, valued activity, priority for expansion,
 observation by staff, COA board, other COA directors—it was a very clear message
 that additional space and capacity is needed to meet the demands of the
 community.
- Consider swapping the fitness room (Room 123) with the larger sized game room (Room 118).
- *Consider increasing the square footage of the existing fitness room by reducing hallway access and incorporating all of the square footage from Room 125 and

- partial square footage from the pantry. (Break room access would shift to the hallway). ¹⁴
- *Consider merging two of the second-floor programming rooms (room 216 and 217) for secondary, non-equipment, fitness space. This space would increase opportunities for larger classes including yoga.
- Consider replacing the desktop computers in the computer lab (room 212) with laptops that can be checked-out and used around the CATH. This would still allow for tax preparation and SHINE counseling to take place in the computer lab room, but would open space for additional programming space needs.
 - Further, a dividing wall could be purchased to create two smaller spaces for meeting or programs.
- Ensure that all programming space and group meeting space is equipped with the ability to have residents join by video conference. In addition, complete the process of making the Great Room accessible for those who are deaf or hard of hearing.
- Enlist volunteers to generate ideas for patio programming. See additional detail for outdoor space opportunities below.
- Consider increasing the frequency of the hot breakfast program to promote use
 of the kitchen space. In addition, revise rental policies to encourage other
 community partners to host fundraisers or events using the kitchen and dining
 area.
 - Encourage private residents or businesses to use the space on evenings or weekends for a small fee. Revenue from these events could be used to expand the building monitor position or other fees associated with keeping the building open after operating hours.
- Expand areas for small social gathering and seating. Consider space in oversized hallway 215 for additional social engagement seating. For example, install a small comfortable couch with reading light.
- *Consider reducing two story lobby to expand programming and social engagement space at the 2nd level reading landing (220) adjacent to the deck.

Programming Storage Space

 Increase interior wall storage in programming rooms. Convenient in-room storage reduces the need to move equipment and tables among room and increases opportunities to repurpose existing standalone closet storage.

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¹⁴ *Suggestions for re-purposed space that involve minor structural changes are conceptual and an architect should be consulted to evaluate proposed revisions.

 Identify conditions that would make the basement space adequate for additional storage use. Consider using this space for seasonal items or extra tables and chairs used for large events.

o Install storage shelving or cabinetry inside of the coat room (room 102).

Business Administration Schedule and Space

Schedule

- Consider the expansion of evening and weekend hours to maximize opportunities for programming during less crowded hours and to meet the needs of residents with schedules that are restricted on weekdays. Consider use of volunteers to staff these piloted hours.
- Consider online registration for programming to decrease traffic at front lobby reception area during high volume attendance.
- Install a secondary MySeniorCenter kiosk in the receiving area (room 127) to ensure that all participants are being counted.

Office Space

- Modify the health clinic room (221) to include a small meeting area and/or multiple workstation spaces. Consider removing the exam table.
- Create an additional workstation adjacent to the current administration area (225) outside of the health clinic room. Consider a portable divider to create a desk space.
- Consider relocating the copier (Room 111) to an alternate space to create a workspace adjacent to the smaller transportation office.
- Consider re-purposing storage areas for office space (Rooms 102, 125, 130, 218 and 220). This possibility is contingent on creating additional storage along interior walls of programming rooms. Room 102 offers potential for a secondary reception area.

Outdoor Space

Outdoor Patio

- Revise building policies to allow for food and beverage consumption on the outdoor deck. A small food service area in adjacent space or a mobile food cart could offer snacks and beverages.
- Increase programming that is suitable for outdoor space including chair exercise, gardening classes, and outdoor dining. Enlist participants, board members, or volunteers to generate a list of possible programs to be held on the patio, pilottest these ideas.

- Consider an awning or shade structure such as a pergola or trellis to offer protection from sunlight, rain, and wind.
- o Provide "age-friendly" seating (e.g., with arms, backs and weather resistant cushion) with access to tables for programming and potential dining.
- Improve acoustics to reduce undesirable sounds and incorporate appealing soundscape elements. Consider the use of dense plants or faux planters for noise reduction purposes; these could take the shape of dividers to increase the number of seating areas on the patio and also offer audio support for those with trouble hearing while outdoors.
- Explore the opportunity to create an outdoor fireplace at the location of existing library fireplace. Alternatively, purchase outdoor heat lamps to provide some heat in cooler months. This could extend the seasonality of the space.

Parking

- Identify on-street parking spots and designate them as giving priority to CATH participants.
- Explore opportunities to create a satellite lot that is within walking distance or provides opportunity for pickup coordinated with existing CATH transportation services.
- Create incentives for car-pooling (e.g., program discounts, gift cards to local businesses, or gift shop credit).

Appendix A: Survey Results

Q1. What is your age range?

	Age 60-69
Age 60-69	42%
Age 70-79	39%
Age 80+	19%
Total%	100%

^{*18} respondents reported that they were under the age of 60. These responses are not included in analyses included in this report.

Q2. How long have you lived in Needham?

	Age 60-69	Age 70-79	Age 80+	All Ages
Fewer than 5 years	6%	3%	12%	6%
5-14 years	8%	5%	13%	8%
15-24 years	13%	6%	3%	8%
25-34 years	39%	10%	7%	22%
35-44 years	25%	38%	7%	27%
45 years or longer	9%	38%	58%	29%
Total%	100%	100%	100%	100%

Q3. Thinking about your usual life (before the COVID-19 pandemic), where in Needham do you go to socialize or go for leisure? (Check all that apply)

	Age 60-69	Age 70-79	Age 80+	All Ages
Library	54%	60%	45%	76%
Center at the Heights	10%	34%	35%	24%
Parks or outdoor spaces	73%	61%	40%	62%
Faith-based organization	34%	38%	32%	35%
Theatre or cultural center	23%	30%	18%	25%
Restaurant or cafe	89%	77%	66%	80%
A gym or fitness class	35%	38%	23%	34%
Town meetings or other civic activities	14%	17%	11%	15%
YMCA or Community Center	18%	11%	11%	14%
Other (please specify)	14%	17%	27%	18%

^{*}Totals do not sum to 100% because respondents could check multiple responses.

Q4. Have you visited the Center at the Heights (CATH) over the last year?

	Age 60-69	Age 70-79	Age 80+	All Ages
Yes	31%	66%	61%	50%
No	69%	34%	39%	50%
Total%	100%	100%	100%	100%

Q5. In your usual life, how frequently do you use programs or services offered by the Center at the Heights(CATH)? (CATH USERS ONLY)

	Age 60-69	Age 70-79	Age 80+	All Ages
Two or more times a week	11%	16%	36%	20%
About once a week	6%	16%	11%	12%
A few times a month	6%	8%	8%	8%
About once a month	8%	6%	6%	6%
A few times a year (e.g.,	69%	54%	39%	54%
special events)				
Total%	100%	100%	100%	100%

Q6. Do you see the Center at the Heights (CATH) as playing a role in the lives of yourself, loved ones, friends, or neighbors?

	Age 60-69	Age 70-79	Age 80+	All Ages
Yes	74%	79%	77%	76%
No	26%	21%	23%	24%
Total%	100%	100%	100%	100%

Q7. The following items refer to programs and services that are *usually* offered through the CATH. Please rate the importance of each type of program/service to you or to a member of your family.

Q7a. Assistance with state or local programs (e.g., fuel assistance, MassHealth)

	Age 60-69	Age 70-79	Age 80+	All Ages
Very Important	29%	18%	17%	23%
Moderately Important	9%	8%	8%	8%
Somewhat Important	10%	12%	11%	11%
Not Very Important	18%	21%	12%	18%
Not at all Important	34%	41%	52%	40%
Total%	100%	100%	100%	100%

Q7b. Transportation

	Age 60-69	Age 70-79	Age 80+	All Ages
Very Important	22%	12%	16%	17%
Moderately Important	12%	7%	11%	10%
Somewhat Important	15%	10%	9%	12%
Not Very Important	15%	21%	11%	17%
Not at all Important	36%	50%	53%	44%
Total%	100%	100%	100%	100%

Q7c. Fitness activities (e.g., Yoga, Zumba)

	Age 60-69	Age 70-79	Age 80+	All Ages
Very Important	32%	21%	26%	27%
Moderately Important	20%	20%	12%	19%
Somewhat Important	19%	20%	9%	17%
Not Very Important	12%	14%	13%	13%
Not at all Important	17%	25%	40%	24%
Total%	100%	100%	100%	100%

Q7d. Physical health and wellness (e.g., blood pressure or Board of Health clinics)

	Age 60-69	Age 70-79	Age 80+	All Ages
Very Important	29%	18%	19%	23%
Moderately Important	19%	17%	19%	18%
Somewhat Important	20%	21%	12%	19%
Not Very Important	15%	17%	14%	15%
Not at all Important	17%	27%	36%	25%
Total%	100%	100%	100%	100%

Q7e. Social and emotional wellness programs (e.g., mental health counseling)

	Age 60-69	Age 70-79	Age 80+	All Ages
Very Important	23%	13%	14%	17%
Moderately Important	20%	13%	8%	15%
Somewhat Important	16%	16%	13%	15%
Not Very Important	16%	23%	14%	19%
Not at all Important	25%	35%	51%	34%
Total%	100%	100%	100%	100%

Q7f. Nutrition programs (lunches or home delivered meals)

	Age 60-69	Age 70-79	Age 80+	All Ages
Very Important	21%	13%	19%	17%
Moderately Important	16%	11%	6%	12%
Somewhat Important	10%	8%	7%	9%
Not Very Important	17%	22%	13%	19%
Not at all Important	36%	46%	55%	43%
Total%	100%	100%	100%	100%

Q7g. Professional services (e.g., legal, tax, or health insurance counseling)

	Age 60-69	Age 70-79	Age 80+	All Ages
Very Important	26%	21%	24%	24%
Moderately Important	23%	15%	10%	17%
Somewhat Important	14%	16%	12%	14%
Not Very Important	13%	22%	12%	17%
Not at all Important	24%	26%	42%	28%
Total%	100%	100%	100%	100%

Q7h. Social or recreational activities (e.g., parties, crafts, gardening, painting)

	Age 60-69	Age 70-79	Age 80+	All Ages
Very Important	20%	11%	16%	16%
Moderately Important	18%	17%	15%	17%
Somewhat Important	21%	23%	15%	21%
Not Very Important	18%	21%	15%	18%
Not at all Important	23%	28%	39%	28%
Total%	100%	100%	100%	100%

Q7i. Support groups (e.g., caregiver)

	Age 60-69	Age 70-79	Age 80+	All Ages
Very Important	19%	9%	17%	15%
Moderately Important	16%	13%	6%	13%
Somewhat Important	17%	14%	14%	15%
Not Very Important	19%	25%	9%	19%
Not at all Important	29%	39%	54%	38%
Total%	100%	100%	100%	100%

Q7j. Educational opportunities (e.g., book club, lectures)

	Age 60-69	Age 70-79	Age 80+	All Ages
Very Important	27%	18%	22%	23%
Moderately Important	29%	29%	21%	27%
Somewhat Important	18%	23%	17%	20%
Not Very Important	12%	13%	14%	13%
Not at all Important	14%	17%	26%	17%
Total%	100%	100%	100%	100%

Q7k. Trips/Outings

	Age 60-69	Age 70-79	Age 80+	All Ages
Very Important	13%	8%	10%	11%
Moderately Important	21%	22%	14%	20%
Somewhat Important	19%	18%	17%	18%
Not Very Important	19%	21%	15%	19%
Not at all Important	28%	31%	44%	32%
Total%	100%	100%	100%	100%

Q7I. Volunteer opportunities

	Age 60-69	Age 70-79	Age 80+	All Ages
Very Important	20%	12%	11%	15%
Moderately Important	25%	16%	13%	20%
Somewhat Important	23%	24%	19%	22%
Not Very Important	14%	21%	11%	16%
Not at all Important	18%	27%	46%	27%
Total%	100%	100%	100%	100%

Q7m. Information and referral

	Age 60-69	Age 70-79	Age 80+	All Ages
Very Important	30%	20%	19%	24%
Moderately Important	27%	24%	21%	25%
Somewhat Important	19%	21%	17%	19%
Not Very Important	10%	15%	16%	13%
Not at all Important	14%	20%	27%	19%
Total%	100%	100%	100%	100%

Q8. Below is a list of issues one could encounter when accessing the Center at the Heights (CATH) or its programs. Have you experienced any of the following issues? (Check all that apply) (CATH USERS ONLY)

	Age 60-69	Age 70-79	Age 80+	All Ages
I have experienced no issues when	46%	48%	59%	50%
accessing the CATH or its programs.				
I have had difficulty finding parking.	27%	36%	33%	33%
I have had difficulty finding information	10%	5%	8%	7%
about the programs and services available.				
I have been unable to participate in a class	18%	14%	13%	15%
or program because it was offered at an				
inconvenient time.				
I have been unable to participate in a class	6%	8%	7%	7%
or program because the class was full.				
I have been unable to attend a class or	5%	5%	5%	5%
program because the fee was more than I				
could afford.				
I have been unable to attend a class or	7%	6%	3%	5%
program because I was taking care of				
grandchildren, or providing care to				
someone who is frail or disabled.				
I have missed participating in a class or	1%	0%	0%	0%
program because I did not have				
transportation.				
I have missed participating in a class or a	8%	5%	5%	6%
program because I didn't learn about it				
until after it had already been held.				
I attended a class or event that was	3%	5%	5%	4%
uncomfortably crowded.				
I attended a class or event at which I didn't	0%	4%	4%	3%
feel welcome or included.				
Other (please specify)	12%	11%	9%	11%

^{*}Totals do not sum to 100% because respondents could check multiple responses.

Q9. Thinking about your possible future needs and interests, which of the following areas would you prioritize in expanding the programs available at the CATH? (Check all that apply)

7 1 1 0 1 0			•	11 //
	Age 60-69	Age 70-79	Age 80+	All Ages
Cafe or other meal programs	13%	14%	20%	15%
Performances/presentations	37%	42%	25%	37%
Health and wellness programs (e.g.,	33%	34%	17%	31%
meditation or disease management)				
Physical fitness programs (e.g., aerobics,	46%	48%	32%	44%
strength training)				
Intergenerational programs	14%	9%	9%	11%
Art classes (e.g., mosaics, portrait painting,	17%	11%	13%	14%
etc.)				
Hiking/walking club	38%	21%	15%	27%
Caregiver programs (e.g., respite,	14%	10%	9%	12%
education)				
Community space for socializing	19%	13%	16%	16%
Evening or weekend programming	26%	21%	17%	22%
Educational programs (e.g., lifelong	45%	46%	38%	44%
learning courses)				
In-home programs (e.g., friendly visiting or	13%	11%	9%	12%
help with minor chores)				
Day trips	23%	23%	15%	22%
Overnight trips	5%	4%	3%	4%
Other (please specify)	3%	9%	11%	7%

^{*}Totals do not sum to 100% because respondents could check multiple responses.

Q10. How satisfied are you with the programs and services offered through the Center at the Heights (CATH)? (CATH USERS ONLY)

	Age 60-69	Age 70-79	Age 80+	All Ages
Completely satisfied	14%	19%	32%	21%
Satisfied	54%	54%	52%	53%
Dissatisfied	4%	0%	3%	2%
Very dissatisfied	1%	1%	0%	1%
Not familiar enough to judge	27%	26%	13%	23%
Total%	100%	100%	100%	100%

Q11. How worried are you about the COVID-19 pandemic?

	Age 60-69	Age 70-79	Age 80+	All Ages
Very worried	25%	32%	37%	30%
Moderately worried	41%	46%	34%	42%
Somewhat worried	25%	17%	18%	20%
Not very worried	8%	5%	9%	7%
Not at all worried	1%	0%	2%	1%
Total%	100%	100%	100%	100%

Q12. What are you concerned about in the weeks and months ahead? (Check all that apply)

	Age 60-69	Age 70-79	Age 80+	All Ages
You or a loved one getting COVID-19	71%	77%	70%	73%
Paying rent/mortgage	5%	3%	1%	3%
Paying other bills	6%	4%	4%	5%
Medical issues other than COVID-19	15%	27%	34%	23%
Attending religious services or social	18%	21%	23%	20%
gatherings				
Children's wellbeing, remote learning	20%	31%	15%	23%
Adequate childcare	3%	6%	2%	4%
Getting food and other things I need	14%	12%	15%	13%
The economic health of my community	47%	49%	32%	45%
Mental health issues (e.g., depression,	21%	19%	16%	19%
anxiety, substance use)				
Other (please specify)	15%	18%	10%	15%

^{*}Totals do not sum to 100% because respondents could check multiple responses.

Q13. Do you have an impairment/condition that limits your ability to participate in your community?

	Age 60-69	Age 70-79	Age 80+	All Ages
Yes	3%	13%	25%	11%
No	97%	87%	75%	89%
Total%	100%	100%	100%	100%

Q14. Do you currently live alone?

	Age 60-69	Age 70-79	Age 80+	All Ages
Yes	16%	20%	40%	22%
No	84%	80%	60%	78%
Total%	100%	100%	100%	100%

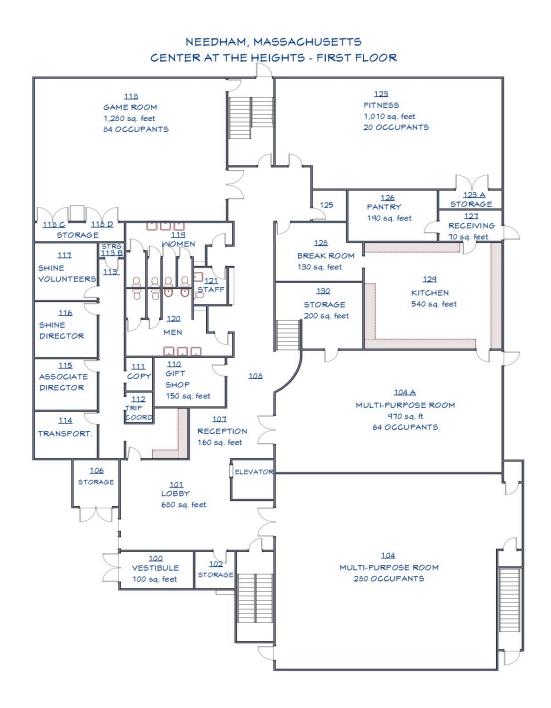
Q15. Please select your gender.

	Age 60-69	Age 70-79	Age 80+	All Ages
Male	40%	40%	46%	41%
Female	60%	60%	54%	59%
Other				
Total%	100%	100%	100%	100%

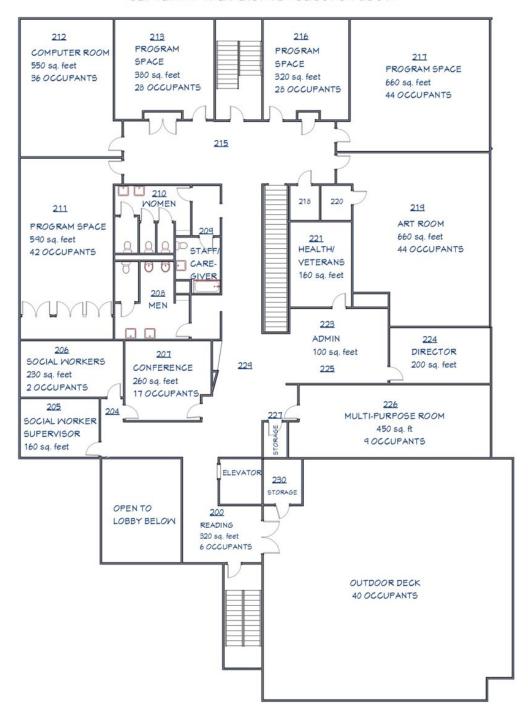
Q16. Please indicate your level of agreement with the following statement, "I have adequate resources to meet my financial needs, including home maintenance, personal healthcare, and other expenses."

	Age 60-69	Age 70-79	Age 80+	All Ages
Strongly agree	55%	51%	43%	51%
Agree	38%	43%	49%	42%
Disagree	5%	4%	7%	5%
Strongly disagree	2%	2%	1%	2%
Total%	100%	100%	100%	100%

Appendix B: Floor Plan of the CATH



NEEDHAM, MASSACHUSETTS CENTER AT THE HEIGHTS - SECOND FLOOR



Appendix C: Room Directory

Needham, Massachusetts Center at the Heights – Space Directory

ROOM	LEVEL ONE	ROOM	LEVEL 2
100	Vestibule	200	Reading
101	Lobby	204	Hallway
102	Storage	205	Social Work, Supervisor
104	Multi-purpose room	206	Social workers
104A	Multi-purpose room	207	Conference Room
106	Storage	208	Men's
107	Reception	209	Caregiver
108	Oversized Hallway	210	Women's
110	Gift Shop	211	Program Space
111	Copy Room	212	Computer Room
112	Trip Coordinator	213	Program Space
113	Hallway and Storage	215	Oversized Hallway
114	Transportation	216	Program Space
115	Associate Director, Programming	217	Program Space
116	Shine Director	218	Custodian Closet
117	Shine Volunteers	219	Art Room
118	Game Room	220	Art Room Closet
118	C/D Storage	221	Health/Veterans
119	Women's	223	Admin
120	Men's	224	Director's Office
121	Staff	225	Hallway
123	Fitness	226	Multi-purpose room
123A	Storage	227	Storage
125	Custodian Closet	229	Oversized Hallway
126	Pantry	230	Storage
127	Receiving	n/a	Outdoor Deck
128	Break Room	n/a	Two Story Lobby
129	Kitchen		
130	Storage		

Note: Basement –Not for programming use.

Appendix D: Institute for Human Centered Design (IHCD) Report

The Center at the Heights



Town of Needham Assessment of Accessibility

June 2020



Institute for Human Centered Design

200 Portland Street, Boston, MA 02114 www.IHCDesign.org • info@IHCDesign.org 617-695-1225 voice/tty

Executive Summary

Overview of the Project

The Institute for Human Centered Design (IHCD) was hired to conduct a comprehensive accessibility and inclusive design assessment of the Center at the Heights (CATH). On April 27, 2020, IHCD had a conference call with Caitlin E. Coyle, professor at the University of Massachusetts Boston Gerontology Institute, to discuss the elements to improve accessibility at CATH. This conversation resulted in a virtual walkthrough with senior staff at the Gerontology Institute and CATH on May 18, and a survey conducted by IHCD on June 8.

The survey concentrated on all public entrances, emergency exits, accessible routes to elements, areas used by members of the public such as the community room, the café, the art room, etc. Also included in the survey were the toilet rooms and the

Overview of Program Accessibility
The Center at the Heights is operated by the Town of Needham Council on Aging. As such the requirements of Title II of the ADA applies, including the requirement to provide program accessibility. Title II of the Americans with Disabilities Act requires that when services, programs or activities are offered. they must be provided in the most integrated setting possible.

When a public entity provides accessibility to its programs, it must ensure:

That policies, practices and procedures are in place to

- provide equal opportunity to programs for people with disabilities and, if needed, modifications are made to policies, practices, and procedures if they result in discrimination against people with disabilities;
- That physical access to spaces is provided so a person with a mobility disability can enter the building, travel through the facilities, use the toilet rooms, and participate in the programs in the program space; That auxiliary aids and services for programs are provided so
- a person who is deaf/hard of hearing, blind/has low vision, or has a speech disability can experience equally effective

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communication as well as a person without a disability in order to understand and participate in the programs

Overview of the Standards

The CATH was built in 2013. Based on the date of construction. areas were surveyed for compliance with the ADA 2010 Standards for Accessible Design and 521 CMR of the Massachusetts Architectural Access Board. Recommendations were provided for compliance with the code that provides the greatest level of accessibility. Best practice and inclusive design recommendations were also provided. Best practice and inclusive design recommendations include elements that are not required in the accessibility standards but may create enhanced experiences for all users.

Action Plan

The CATH's commitment to creating an inclusive environment is clear from the work the Center has done to date. In order to address completely the items identified in this survey, IHCD recommends that the Center create an action plan for renovations to be done.

The following pages include a list of some of the accessibility issues that IHCD identified in its survey of the Center, a full illustrated catalog detailing noncompliant elements and recommendations for remediation. Individual accessibility concerns were photographed and recorded, with numerical information included wherever possible. In order to minimize the amount of information, elements not included in this report may be assumed to be compliant with regard to the applicable accessibility regulations.

A spreadsheet with priority for program access and a glossary of some of the terms used in describing features of accessible

All recommendations in this report will assist the Center in meeting their responsibilities under the federal and state accessibility codes, provide equal opportunity for people with disabilities, and increase inclusion for a diverse public.

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The Center at the Heights

Background

Year Built: 2013

The Center at the Heights is located at 300 Hillside Avenue and is open to the public Monday through Saturday. The Center provides information and services for seniors as well as a variety of classes and programs including computer classes, exercise, yoga, etc. The Center also serves as one of the polling place locations for the Town.

The Center is a three (3) story building with one (1) accessible entrance located on Hillside Avenue (west side of the building). In addition to the accessible entrance/exit there are three (3) accessible emergency egresses. The parking lot is located on the north and east sides of the building; there are 64 parking spaces including three (3) accessible parking spaces. There are also two (2) drop-off areas. One is located on Hillside Avenue, and one is located on the south side of the building.

The building floors are connected by an elevator, two (2) sets of fire stainwells and a central stainway near the gift shop. A reception area, a gift shop, a multipurpose room, a café, a kitchen, a game room and the fitness center are located on the first floor. The library, an art room, a computer room, four (4) program space rooms (used for yoga, meditation or therapy classes) and a deck are located on the second floor. Multi-user men's and women's toilet rooms are located on both floors, a single-user toilet room is located on the first floor and a single-user companion bathroom is located on the second floor.

Staff offices are located on both floors. The transportation office, the director and volunteers' offices for the SHINE program are located on the first floor. Two social worker offices, a staff conference room, the nurse's office and the director's office are located on the second floor. A staff break room is located off the kitchen area on the first floor.

Note: The basement level is not open to the public and therefore was not surveyed.

Key Accessibility Issues

Drop-off Areas

Accessibility issues include lack of the required sign with the International Symbol of Accessibility (ISA) at the drop-off areas.

Signage

Accessibility issues include signs not located on the latch side of the door at many locations, lack of tactile signs (braille and raised characters) at the emergency egresses and lack of illuminated signs with the International Symbol of Accessibility (ISA) at the accessible emergency exits. Another accessibility issue is the lack of signs with the International Symbol for Hearing Loss at the rooms having an assistive listening system.

Kitchen Area

Accessibility issues include lack of knee clearance at the cook range and lack of insulated pipes at the sink located at the preparation counter.

Toilet Rooms

Accessibility issues include toilet paper dispensers located above the grab bars. 521 CMR requires dispensers and other devices not to be mounted above the grab bars. Another accessibility issue includes accessible wheelchair compartments slightly shorter than the minimum depth allowed.

Drinking Fountains

Accessibility issues include lack of the required drinking fountain for standing users on both floors. The Standards require that no fewer than two drinking fountains be provided; one for seated users and one for standing users.

Fitness Room

An accessibility issue includes lack of the minimum 30 inches by 48 inches clear floor space at each type of exercise machine. The clear floor space is required to be positioned for a transfer or use by an individual seated in a wheelchair.

Doors

An accessibility issue includes lack of the required maneuvering clearance at the egress door located in the café area. 521 CMR requires maneuvering clearance to be provided when any obstruction within the 12 inches of the latch side of the door projects more than 6 inches beyond the face of the door. Another accessibility issue is the lack of maneuvering clearance at the emergency egress located in the game room due to the location of a computer table.

Additional Accessibility Issues

- Lack of accessible work surfaces (with knee clearance) in the library (one of the tables) and the art room.
- Lack of knee clearance at the sink located in the art room.
- Lack of a securely attached walk-off mat at the main entrance.

Best Practice and Inclusive Design

Best practice and inclusive design recommendations include elements that are not required in the standards but may create enhanced experiences for all users.

- Recommend providing a planter with knee clearance positioned for a forward approach (deck).
- Recommend using floor markers, intended to help with social distancing, that are wider and that also have a high contrast with the surface on the floor.

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Town of Needham The Center at the Heights

ID	Location	Floor	Room	Element	Туре	Photo	Issues	Current Measure	Recommendations	Quantity	Citations		
P	approach and E	Entrance											
	Exterior Access Route												
1	Passenger Loading Zone - Near the Main Entrance	Ext.		Exterior Access Route	Exterior		vel changes > 1/4*	-	Beveled sections of the curb that is higher than a 1/4".		ADA 2010: 303 521 CMR: 20.10		
	Passenger Lo	ading Z	ones										
2	Passenger Loading Zone - Near the Main Entrance	Ext.		Passenger Loading Zones	N/A	Sic	n with ISA not provided (MAAB)	-	Provide a sign that includes the International Symbol of Accessibility (ISA) at the head of the space. Locate the sign so that the bottom is 60° min. above the ground and the top is 96° max. above the ground.	1	521 CMR 41.1.3		
3	Passenger Loading Zone - Hillside Street	Ext.		Passenger Loading Zones	N/A	SK	n with ISA not provided (MAAB)	-	Provide a sign that includes the International Symbol of Accessibility (ISA) at the head of the space. Locate the signs so that the bottom is 60° min. above the ground and the top is 96° max. above the ground.	1	521 CMR 41.1.3		
A	Access to Good	is and S	ervices							•			
	Means of Egr	ess											
4	Game Room	1	118	Means of Egress	N/A	Ta	ctile exit sign not provided	-	Ensure a tactile exit sign with raised characters and braille is provided at exit door. Mount sign between 48-5 of above the finished floor located on the latch side of the door.	1	ADA 2010: 703.2 521 CMR: 41.5		

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ID	Location	Floor	Room	Element	Туре	Photo	Issues	Current Measure	Recommendations	Quantity	Citations
5	Main Entrance	1		Means of Egress	N/A		Tactile exit sign not provided illuminated ISA symbol not provided (MAAB)	0.0	Ensure a tactile exit sign with raised characters and braille is provided at exit door. Mount sign between 45 - 60' above the finished floor located on the latch side of the door. Provide an illuminated sign with the international Symbol of Accessibility.		ADA 2010: 703.2 521 CMR: 41.5 & 41.1.3
6	Multipurpose Room	1	104	Means of Egress	N/A		Tacilile exit sign not provided illuminated ISA symbol not provided (MAAB)		Ensure a tactile exit sign with raised characters and braille is provided at exit door. Mount sign between 48"- 50" above the finished floor located on the latch side of the door. Provide an illuminated sign with the International Symbol of Accessibility.	1	ADA 2010: 703.2 521 CMR: 41.5 & 41.1.3
7	Near Game Room	1		Means of Egress	N/A		Tacilie exit sign not provided Illuminated ISA symbol not provided (MAAB)	- -	Ensure a tactile exit sign with raised characters and braille is provided at exit door. Mount sign between 48°- 60° above the finished floor located on the latch side of the door. Provide an illuminated sign with the international Symbol of Accessibility.	1	ADA 2010: 703.2 521 CMR: 41.5 & 41.1.3
8	Cafe	1	104A	Means of Egress	N/A		Tactile exit sign not provided illuminated ISA symbol not provided (MAAB)	-	Ensure a tactile exit sign with raised characters and braille is provided at exit door. Mount sign between 46°-60° above the finished floor located on the latch side of the door. Provide an illuminated sign with the international Symbol of Accessibility.		ADA 2010: 703.2 521 CMR: 41.5 & 41.1.3
	Interior Acces	ss Route									
9	Lobby	1		Interior Access Route	N/A		Surface not stable, firm, and slip-resistant	-	Install an ADA-compliant walk-off mat.	1	ADA 2010: 302 521 CMR: 29.00

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ID	Location	Floor	Room	Element	Type	Photo	Issues	Current Measure	Recommendations	Quantity	Citations
	Doors, Doorv	ays, & G	Sates								
10	Game Room	1	118	Doors, Doorways, & Gates	Emergency Egress		Maneuvering clearance(s) not provided	-	Relocate table to maintain the required maneuvering clearance at the door.	1	ADA 2010: 404.24 521 CMR: 26.00
11	Cafe	1	104A	Doors, Doorways, & Gates	Emergency Egress		Maneuvering clearance not provided at recess > 6"	6.5"	Install an automatic door opener.	1	521 CMR: 26.6.2
	Exercise Mac	hines & I	Equipm	ent							
12	Fitness Room	1	123	Exercise Machines & Equipment			Clear floor space not provided	-	Ensure that one of each type of equipment has a 30°m inb, 948°m in clear floor space positioned for transfer or for use by an individual seated in a wheelchair. Clear floor space required at exercise machines and equipment shall be permitted to overlap.	1	ADA 2010: 1004.1
	Signage										
13	Game Room		118	Signage	Designation	Months of Contract	Sign not located on the latch side of the door	-	Locate sign at permanent rooms alongside the door on the latch side.	1	ADA 2010: 703.4.2 521 CMR: 41.2
14	Multipurpose Room	1	104	Signage	N/A		International Symbol of Access for Hearing Loss not provided	-	Provide a sign with the International Symbol for Hearing Loss to notify patrons that an assistive listening system is provided.	1	ADA 2010: 703.7.2.4 521 CMR: 41.10

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ID	Location	Floor	Room	Element	Туре	Photo	Issues	Current Measure	Recommendations	Quantity	Citations
15	Multipurpose Room	1	104	Signage	Designation		Sign location not compliant		Locate sign to the right of the right hand door.	1	ADA 2010: 703.4.2
16	Gift Shop	1	110	Signage	Designation		Sign not located on the latch side of the door	-	Locate sign at permanent rooms alongside the door on the latch side.		ADA 2010: 703.4.2 521 CMR: 41.2
17	Fitness Room	1	123	Signage	Designation		Sign not located on the latch side of the door	-	Locate sign at permanent rooms alongside the door on the latch side.		ADA 2010: 703.4.2 521 CMR: 41.2
18	Staff Office	2	205/206	Signage	Designation		Sign not located on the latch side of the door	-	Locate sign at permanent rooms alongside the door on the latch side.		ADA 2010: 703.4.2 521 CMR: 41.2
19	Conference Room	2	207	Signage	Designation		Sign not located on the latch side of the door	-	Locate sign at permanent rooms alongside the door on the latch side.		ADA 2010: 703.4.2 521 CMR: 41.2

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ID	Location	Floor	Room	n Element	Туре	Photo	Issues	Current Measure	Recommendations	Quantity	Citations
20	Library	2	226	Signage	Designation		Sign not located on the latch side of the door	-	Locate sign at permanent rooms alongside the door on the latch side.		ADA 2010: 703.4.2 521 CMR: 41.2
21	Yoga Classroom	2	211	Signage	Designation		Sign not located on the latch side of the door	=	Locate sign at permanent rooms alongside the door on the latch side.	1	ADA 2010: 703.4.2 521 CMR: 41.2
22	Computer Room	2	212	Signage	Designation		Sign not located on the latch side of the door	-	Locate sign at permanent rooms alongside the door on the latch side.	1	ADA 2010: 703.4.2 521 CMR: 41.2
23	Meeting Room	2	213	Signage	Designation	00/07 00/2007 00/2007 00/2007 200	Sign not located on the latch side of the door	-	Locate sign at permanent rooms alongside the door on the latch side.	1	ADA 2010: 703.4.2 521 CMR: 41.2
24		2	216	Signage	Designation	MOTINE OCCUPANCY The manuscript 216	Sign not located on the latch side of the door	-	Locate sign at permanent rooms alongside the door on the latch side.		ADA 2010: 703.4.2 521 CMR: 41.2

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ID	Location	Floor	Room	n Element	Туре	Photo	Issues	Current Measure	Recommendations	Quantity	Citations
25		2	217	Signage	Designation		Sign not located on the latch side of the door	-	Locate sign at permanent rooms alongside the door on the latch side.	1	ADA 2010: 703.4.2 521 CMR: 41.2
26	Art Room	2	219	Signage	Designation		Sign not located on the latch side of the door	-	Locate sign at permanent rooms alongside the door on the latch side.	1	ADA 2010: 703.4.2 521 CMR: 41.2 ADA 2010: 902.2
	Dining or Work Surfaces										
27	Library	2	226	Dining or Work Surfaces	Work Surface		Knee or toe clearance not provided	24"	Provide at least 1 work surface with 27* min. high knee clearance underneath.	1	ADA 2010: 902.2
28	Art Room	2	219	Dining or Work Surfaces	Work Surface		Knee or toe clearance not provided	24"	Provide at least 1 work surface with 27* min. high knee clearance underneath.	1	ADA 2010: 902.2
	Assembly Area										
29	Conference Room	2	207	Assembly Area	N/A		Assistive listening devices not provided	-	Where audio amplification is provided and audible communication is integral to the use of the space, provide an assistive listening system. If an assistive listening system is present, a sign with the international Symbol of Access for Hearing Loss must be provided.	1	ADA 2010: 703.7.2.4 521 CMR: 41.10

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ID	Location	Floor	Room	Element	Туре	Photo	Issues	Current Measure	Recommendations	Quantity	Citations
30	Computer Room	2	212	Assembly Area	N/A		Assistive listening devices not provided	-	Where audio amplification is provided and audible communication is integral to the use of the space, provide an assistive listening system. If an assistive listening system is present, a sign with the international Symbol for Hearing Loss must be provided.	1	ADA 2010: 703.7.2.4 521 CMR: 41.10
	Kitchens and	Kitchen	ettes								
31	Kitchen	1		Kitchens and Kitchenette s	N/A		Kneeltoe clearance not provided at cooktop	-	Provide a cooktop with knee and toe clearance positioned for a forward approach. Ensure hardware can be operable with a closed fist and does not required tight grasping, pinching or twisting of the wrist.	1	521 CMR: 328.1
Т	Tollet & Bathing Rooms										
	Single-User T	oilet									
32	Companion Bathroom	2	221	Single-User Toilet	N/A	10	Tollet paper dispenser is not compliant	-	Relocate tollet paper so that it is 24" min. high, located under the grab bar, and between 7" and 9" from the front of the toilet.	1	521 CMR: 30.8.5 & 30.6.1
	Toilet Compartment										
33	Men's Toilet Room	1 2		Toilet Compartme nt	Accessible Compartme nt		Non-compliant toilet paper dispenser Depth of compartment < 72° (MAAB)	- 70*	Relocate toilet paper so that it is 24" min. high, located under the grab bar, and between 7" and 9" from the front of the toilet. Provide a wheelchair accessible compartment that is 60" wide and 72" deep.	2	521 CMR: 30.8.5 & 30.6.1

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Town of Needham The Center at the Heights

ID	Location	Floor	Room	Element	Туре	Photo	Issues	Current Measure	Recommendations	Quantity	Citations
34	Women's Toilet Room	1 2		Toilet Compartme nt	Accessible Compartme nt		Non-compliant tollet paper dispenser Depth of compartment < 72" (MAAB)	-	Relocate toilet paper so that it is 24" min. high, located under the grab bar, and between 7" and 9" from the front of the boilet. Provide a wheelchair accessible compartment that is 60" wide and 72" deep.	2	521 CMR: 30.8.5 & 30.6.1
F	dditional Acce	ss									
	Drinking Four	ntains									
35	Near Fitness Room	1	123	Drinking Fountains	Low		No drinking fountain provided for standing users	-	Provide an additional drinking fountain for standing users or install a HI-Lo drinking fountain.	1	ADA 2010: 211.2
36	Near Room 221	2		Drinking Fountains	Low		No drinking fountain provided for standing users	-	Provide an additional drinking fountain for standing users or install a Hi-Lo drinking fountain.	1	ADA 2010: 211.2
	Sink										
37	Kitchen	1		Sink	N/A		Exposed plumbing underneath sink	-	Insulate or otherwise configure pipes at sink to protect against contact.	1	ADA 2010: 606.5 521 CMR: 32.7.4
38	Art Room	2	219	Sink	Classroom	910	Knee clearances not provided	26"	Ensure there is a 27° high knee clearance for a depth of 5° under the sink. Ensure hardware can be operable with a closed fist and does not required tight grasping, pinching or twisting of the wrist.	1	ADA 2010: 306.3 521 CMR: 32.7
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ID	Location	Floor	Room	Element	Туре	Photo	Issues	Current Measure	Recommendations	Quantity	Citations
Е	Sest Practice										
	Floor Markers										
39	Lobby	1		Floor Markers	N/A				Recommend using floor markers, intended to help with social distancing, that are wider and that also have a high contrast with the surface on the floor.		ADA 2010: N/A 521 CMR: N/A
	Planters										
40	Deck	2		Planters	N/A				Recommended providing a planter with 27" high knee clearance positioned for a forward approach.		ADA 2010: N/A 521 CMR: N/A

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6/14/2020



Feasibility Study & Conceptual Design SOCOTEC Project Number: CB213041.4

The Center at the Heights

300 Hillside Avenue Needham, Massachusetts 02494

January 23, 2023



NEEDHAM CATH SPACE UTILIZATION STUDY



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January 23, 2023

Mr. Barry Dulong Director of Building Maintenance Building Maintenance Division Town of Needham 500 Dedham Ave Needham, MA 02492

Tel: 781-801-5937

Email: bdulong@needhamma.gov

Proj: Center at the Heights Senior Center

Re: Investigative Report CBI Job No. CB213041.4

Dear Mr. Dulong:

In accordance with our contract, SOCOTEC AE CONSULTING, LLC is pleased to present the following Feasibility Study for the kitchen renovations at the Center at the Heights facility (i.e.: "CATH"), located at 300 Hillside Avenue in Needham, Massachusetts

This Feasibility Study was commissioned in detail the layout of the existing kitchen, and to provide recommendations for updating the design in order to accommodate a high volume meal service for the Town of Needham.

This study includes a review of the existing conditions and deficiencies in the current kitchen design, and a conceptual plan depicting an alternate commercial kitchen layout and the related equipment.

This report provides the Town of Needham with a proposed project scope, work, equipment options and budget for the commercial kitchen renovation at the Center At The Heights, 300 Hillside Avenue, in Needham, MA.

If should have any questions or comments on the above, please do not hesitate to contact me.

Best regards,

SOCOTEC AE Consulting, LLC

Robert Kuhn, Project Manager Robert.Kuhn@socotec.us

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SECTION ONE

Project Narrative

- 1.1: Facility Description & Existing Conditions
- 1.2: Existing Conditions Pictures
- 1.3: Existing Building Code Analysis
- 1.4: Program Requirements & Scope of Work



NEEDHAM CATH SPACE UTILIZATION STUDY



1.1 Facility Description and Existing Conditions

The **Center at the Heights** is located at 300 Hillside Avenue, in Needham, Massachusetts. The existing facility is a two story senior center of approximately 30,000 square feet. The existing building was permitted and built in or around January 4th, 2012. The CATH center is a steel framed building, with a cold formed metal stud substructure, insulation, sheathing and clad with a mixture of fiber cement siding / trim with a manufactured stone veneer.



Figure 1: The main entrance to the CATH center

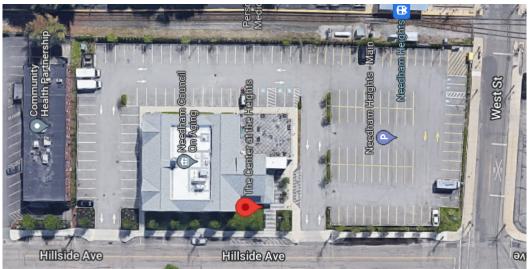


Figure 2: Site Circulation, with Main Entrance at Right



The existing full service Kitchen area is generally separated into four areas: Preparation, Cooking, Washing and Serving. The current layout appears inadequate for the current use as well as the proposed use. Additionally, the kitchen is being used in conjunction with off-site food services to prepare and serve meals to the public. This process is inefficient and adds to the per meal cost.

Within the kitchen there is an oversized center island with storage cabinets below, and a provision for interior seating at all sides. At one point, this island was to be used as a teaching space, so many could gather and watch a cooking instructor to replicate their techniques. We were advised by several of the workers that this does not currently happen in this space, and that they do not remember if it was ever used as a teaching space. Furthermore, the large island confines the path of travel greatly and makes working in this area tight and inefficient.

Mimicking the large kitchen island on the ceiling is a painted soffit, with a large pot rack and recessed accent lighting. A soffit encircles the perimeter of the Kitchen and has indirect fixtures mounted to it's face, with provide the majority of the lighting. The remainder of the ceiling is an acoustic tile set within a suspended metal grid. The space does take advantage of what little natural light it receives from a window above the Washing station.

The existing floor is a slab on grade and clad with 12x24" porcelain tile laid in a running bond pattern, which runs throughout the main Kitchen & the immediately adjacent storage areas. The surface should have a honed finish to prevent slipping, but it appears to have been worn away and has therefore extended past its lifecycle.

The cooking area is comprised of two (2) small and residential type wall ovens (assumed ventless), a four burner commercial range cooktop and an induction burner. There is a hood above the range, however workers reported that it is too high to catch any rising steam & fumes being emitted from the range.

The existing counters, upper cabinets and lower cabinets in the space are ample. However, the majority of the countertops are only 32" high which, makes working on them a challenge for some users. Only the Washing station is the standard 36" high. The existing counter tops are a mixture of materials, with stainless steel along the wet areas, and different types of granite at the Preparation, Cooking and Serving areas.

The existing floor and wall cabinet carcasses are finished with plastic laminate, and overall seem in relatively good shape for their frequency of use. The amount of wall cabinets are expansive, with the remaining wall space finished with ceramic tile along the Serving & Cooking area, and stainless steel protecting the walls at the Washing area.

All appliances in the Kitchen are high-end stainless steel, rather than commercial grade. Insufficient refrigeration space is provided by three residential style units with glass shelving, rather than heavy duty wire shelving. There is only one (1), three-door freezer located in the Dry Storage room, which is less than optimal for an existing Kitchen of this size.

In the existing Break Room (immediately adjacent to this space), there is an existing natural gas shut off. (see pictures 1 and 2), which is typically covered (assumed for protection) by a plywood box and labeled on the wall above. Physically, there are two or three green colored pieces (the "solenoids") that are hot to the touch, whether or not the gas is being used or not. This draws very little power to operate; in fact, it uses low voltage – so there needs to be more investigation into why these solenoids are heating up.

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1.2 Existing Condition Pictures

No.	Photo	Description
1.		An overall picture of the existing Kitchen, showing the existing Serving area, the existing Cooking area, the partial extents of the upper / lower cabinets and countertops, and entrance to the existing Break Room. Note the expansive center island which makes the kitchen less efficient than it could be.
2.		Another overall picture of the existing kitchen, showing the existing Washing area, as well as ingress into the space from the existing Cafeteria. Note that the countertop height at the Washing area changes to accommodate the appliances.
3.	NOTE: FORCE AT LOCATION OF THE PARTY OF THE	A view of the Preparation area. These countertops are not the standard, comfortable working height.

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4.



View of the existing gas shut off, located at counter height in proximity to the working surface

5.



An enlarged picture of the existing gas shut off. Note that the solenoid (colored green) is hot to the touch regardless of whether or not natural gas is being used or not.

6.



View of the existing Break Room. This space is under utilized in the existing design.



7.	View of the existing range and exhaust hood, and two existing wall ovens.
8.	View of the front of the existing kitchen, including the existing center island (with storage below), existing serving window, partial extents of the upper / lower cabinets and existing stainless-steel countertops. These existing countertops are 2-4" lower than the standard, comfortable working height of 36".
9.	Partial rear elevation of the kitchen, showing one of the existing refrigerators, and the entrance to the existing Break Room on the left.



Rear elevation of the existing kitchen, showing the existing refrigerator, cabinetry and countertops, handwashing sink, and entrance to the existing Receiving area to the right. 10. An existing floor sink (circled in red) and drain from an existing handwashing sink on the existing rear countertop. 11. The existing dishwash station, with an integral three compartment sink and two existing commercial dishwashers. 12.

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The existing storage area incorporates the existing three door freezer, as well as the existing dry storage.

The existing ceiling is comprised of acoustic ceiling panels, as well as gypsum wallboard bulkheads above the cabinets & a gypsum drop ceiling over the island.
Lighting is insufficient for the space, with downlights above the island, sconces on the face of the bulkhead and task lighting below the upper cabinets.



1.3: EXISTING BUILDING CODE ANALYSIS

The work shall comply with the following, applicable codes:

- Building 780 CMR Massachusetts State Building Code 9th Edition, which is an amended version of the 2015 International Building Code (IBC). 780 CMR 34.00 is deleted and replaced by the Massachusetts Existing Building Code (MEBC), which is an amended version of the 2015 International Existing Building Code (IEBC).
- 2. Energy Code The standard "non-stretch" energy provisions of the code will be based on the 2018 International Energy Conservation Code (IECC) Commercial Provisions.

2015 INTERNATIONAL BUILDING CODE

CHAPTER THREE - USE & OCCUPANCY CLASSIFICATIONS

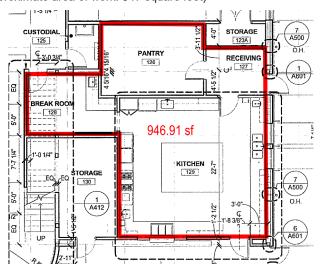
<u>Section 302.1 General:</u> Structures or portions of structures shall be classified with respect to occupancy in one or more of the groups listed in this section. Where a structure is proposed for a purpose that is not specifically provided for in this code, such structure shall be classified in the group that the occupancy most nearly resembles, according to the fire safety and relative hazard involved.

2. Business (see Section 304): Group B

<u>Section 304.1 Business Group B:</u> Business Group B occupancy includes, among others, the use of a building or structure, or a portion thereof, for office, professional or service type transactions, including storage of records and accounts. Business occupancies shall include, but not be limited to, the following:

Food processing establishments sand commercial kitchens not associated with restaurants, cafeterias, and similar dining facilities not more than 2,500 square feet in area.

(NOTE: Approximate area of work: 947 square feet)



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CHAPTER SIX – TYPES OF CONSTRUCTION

Section 602 Construction Classification:

602.3 Type III: **Type III** construction is that type of construction in which the *exterior walls* are of noncombustible materials and the interior building elements are of any material permitted by this code.

2015 INTERNATIONAL EXISTING BUILDING CODE

CHAPTER THREE - PROVISIONS FOR ALL COMPLAINCE METHODS

<u>Section 301.1.1 Prescriptive Compliance Method:</u> Repairs, alterations, additions, and changes of occupancy complying with **Chapter 4** of this code in buildings complying with the International Fire Code shall be considered in compliance with the provisions of this code.

The Prescriptive Compliance Method has been selected for use on this project. The scope of work for this project is defined as both a Repair and a Level 1 Alteration (see Chapter Four). Chapters 5 through 14 are not

Section 301.1.2 Work Area Compliance Method and Section 301.1.3 Performance Compliance Method: do not apply to this project, as the Prescriptive Compliance Method has been chosen.

CHAPTER FOUR - PRESCRIPTIVE COMPLIANCE METHOD

<u>Section 401.1 Scope:</u> The provisions of this chapter shall control the alteration, repair, addition and change of occupancy or relocation of existing buildings and structures, as referenced in section 301.1.1.

The work is limited to alteration & repair of the existing Kitchen space. No change of occupancy, relocation of the existing building / structure, or addition is being proposed as part of the work.

Section 402 Additions: No additions are being proposed as part of the work.

Section 403 Alterations:

Section 403.1: Except as provided by Section 401.2 or this section, alterations to any building or structure shall comply with the requirements of the IBC for new construction. Alterations shall be such that the existing building or structure is no less conforming to the provisions of the IBC than the existing building or structure was prior to the alteration.

It is our intent to comply with this section.

Section 403.2: Flood Hazard Areas:

The existing building is not in a flood hazard area.

Section 403.3: Existing Structural Elements Carrying Gravity Load:

There will be no alterations to the existing structural elements of the building.

Section 403.4: Existing Structural Elements Carrying Lateral Load:

There will be no alterations to the existing structural elements of the building.

Section 403.5: Bracing for Unreinforced Masonry Parapets upon Reroofing:

There will be no alterations to the exiting roof.

Section 403.6: Wall Anchorage for Unreinforced Masonry Walls in Major Alterations:

This is not a major alteration where the unreinforced masonry walls will require anchorage.

Section 403.7: Bracing for Unreinforced Masonry Parapets in Major Alterations:

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This is not a major alteration where the unreinforced masonry parapet will require anchorage.

Section 403.8: Roof Diaphragms Resisting Wind Loads in High Wind Regions:

There is no work proposed at the roof level.

Section 403.9: Voluntary Seismic Improvements:

There will be no alterations to the existing structural elements of the building.

Section 403.10: Smoke Alarms:

There are no dwelling or sleeping units in the existing building.

Section 403.11: Refuge Areas:

There are no alterations proposed to the existing refuge areas.

<u>Section 404 Repairs:</u> Buildings, structures and parts thereof shall be repaired in compliance with Sections 401.2 & 404. Work on nondamaged components that is necessary for the required repair of damaged components shall be considered part of the repair and shall not be subject to the requirements for alterations in this chapter. Routine maintenance required by section 401.2, ordinary repairs exempt from permit in accordance with Section 105.2, and abatement of wear due to normal service conditions shall not e subject to the requirements of this section.

It is our intent to comply with this section.

Section 405 Fire Escapes:

There are no fire escapes proposed as part of this work.

Section 406 Glass Replacement and Replacement Windows.

There are no glass replacements proposed as part of this work.

Section 407 Change of Occupancy:

There is no change of occupancy proposed as part of this work.

Section 408 Historic Buildings:

The existing building is not listed on the National Register of Historic Places.

Section 409 Moved Structures:

Moving the existing structure is not proposed as part of this work.

Section 410 Accessibility for Existing Buildings:

The existing building's accessibility will not be affected by this work



1.4 Program Requirements and Scope of Work

The Town of Needham has expressed their need to consolidate the meal preparation to this single location, rather than to one of the hospitals, schools, and similar venues around town. Doing so would allow the town to save on costs of food preparation by have greater control of the end product, and be more serviceable to their customers by having a dedicated staff on hand.

This report details the significant alteration to the existing spaces and provide a solution that not only exceeds the current capacity and maximizes the kitchen output. The Town's goal is to provide 160 meals per day from this space:

	To go	In house	Subtotal
Breakfasts	0	30	30
Lunches	50	30	80
Dinners	50	0	50
Subtotals	100	60	160 Total Meals / day

The center marble island, while being a beautiful piece, makes the space proportionately smaller and that much less efficient. Removing this would greatly improve the capability of the space and it's staff. Also, there is an abundance of counter and cabinet space that seems to be underutilized due to its size and location; wall cabinets fill quickly yet become forgotten if the end users are incapable of reaching them. The lack of commercial refrigerators, freezers, and cooking equipment lead to downtimes due to their low capacity and sturdiness which lead to additional downtimes.

Therefore, SOCOTEC proposes an alteration of the existing Kitchen, Dry Storage area, as well as the underutilized Employee Break Room. The existing Preparation, Cooking, Washing and Serving areas will remain in place, while the equipment in those areas will be improved upon and a Staging area added. The existing residential appliances will be replaced with commercial grade convection oven, griddle, skillet and ranges in order to better handle capacity and control of the final product; this includes a food warmer. The existing refrigeration and freezers will be removed and consolidated into one large walk-in unit. With the center island removed, we now have ample space to use stainless steel tables and racks on casters, so they may be wheeled around the space and not be in the way all the time.

A thorough review of the existing ancillary cooking devices (i.e.: knives, pots and pans, utensils, etc.) will need to be performed prior to buying new units. Also, we will need to provide for the employees as well and provide microwaves, coffee makers, etc. to replace those that are being removed from the existing Breakroom.

The existing Breakroom will be maximized into a Dry Storage area, with wire racking at the perimeter. This will help with the organization of equipment and ingredients. However, this will not be the only storage options: we will endeavor to include as many wall and base cabinets as possible along the Serving and Preparation areas, with the countertops being a more comfortable height.

We have made some assumptions regarding finishes, and have taken design ques from commercial kitchen design which will help control costs. While utilitarian, we feel that a stainless steel backsplash along the Cooking area & the Washing area is a more practical and cost effective approach. Fiberglass reinforced panels will be installed at the Locker & Dry Storage areas. Along the rear wall of the Preparation area we have an opportunity to use ceramic tile to soften the area. At this time, we are not proposing decorative soffits.

It should be noted that the existing door and hardware into the space should be reviewed as well, to be sure it can handle the high capacity, and general wear and tear on the door. As far as I can tell, this door is original to the building and is used fairly frequently.

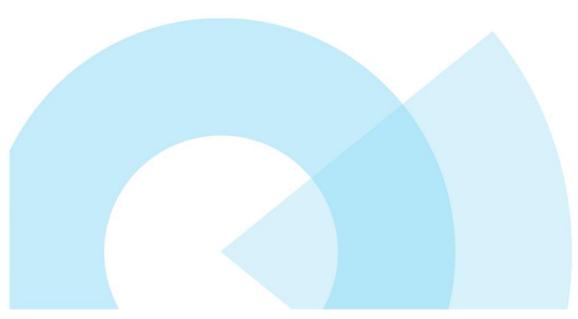
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SECTION TWO

Foodservice Consultant Report

2.1 - Feasibility Study by ColburnGuyette



NEEDHAM CATH SPACE UTILIZATION STUDY

FEASIBILITY STUDY FOODSERVICE

INTRODUCTION

The following is a report and evaluation of the existing foodservice operation at the Needham Senior Center. The foodservice operation is comprised of a Main Kitchen, Receiving Area, Storage Room, and an Employee Break Room. The intent is to evaluate the existing conditions and recommend improvements for the facility to be self-sufficient and to not rely on outside sources for daily meals which are currently prepared and brought in through Springwell's catering service, one of the local hospitals, or similar facilities. The goal is to prepare one-hundred sixty meals per day. The one-hundred-sixty meals comprise of approximately fifty hot lunches to go, fifty dinners to go, thirty in-house breakfasts, and thirty lunches.

EXISTING CONDITIONS

The existing overall project is approximately nine-hundred-twenty-eight square feet. Of that square footage, the Main Kitchen is five-hundred-thirty-three square feet, the Receiving Area is seventy-eight square feet, the Storage Room is one-hundred-eight-nine square feet, and the balance one-hundred-twenty-eight square feet is in the Employee Breakroom.

The Main Kitchen has a mix of equipment from high-end residential to commercial. It has a large central island counter that accounts for about twenty percent of the square footage and is neither ideal nor useful for the space. It impedes the flow of the kitchen, needing to walk around it for any task, and most of it is unusable due to the far reach. There is a large ceiling mounted pot rack above the island, as well.

The cooking line, in the Main Kitchen, is comprised of a high-end residential thirty-six-inch range and a drop-in induction range. All of which are beneath a sixty-inch by thirty-six-inch commercial exhaust hood. There are also two residential built-in wall ovens. The thirty-six-inch range is the only gas cooking equipment in the facility. All other cooking equipment is electrical. Other equipment includes a built-in residential refrigerator, a small built-in three-compartment sink, a prep sink, hand sinks, two commercial dishwashers, and other smallware's such as microwaves, coffee brewers, and dispensers. The Main Kitchen is not lacking in storage due to the amount of base and wall cabinets. However, they would not be adequate for the intended operation going forward. Finally, there is a large pass-through window with a sneeze guard and hot food well to serve diners in the Dining Room.

The Receiving Area has two more residential type refrigerators, a couple of employee lockers, trash holding, coat hangers, and it houses a recessed grease trap.

The Storage Room has a large commercial three-door freezer, ice machine, and 4-tier wire shelving all around.

Finally, the Break Room simply consists of tables and chairs, a counter with a sink, coffee equipment and a couple of microwaves. This room is where the electrical panels, fire suppression Ansul system and gas shut off valve are located.

DEFICIENCIES AND PROPOSED IMPROVEMENTS

As mentioned in the existing conditions, the large central counter is not proportionally correct to be considered useful or an asset to the space. It impedes workflow and takes up too much valuable square footage. A more



FEASIBILITY STUDY FOODSERVICE

functional solution would be to remove the island and the pot shelving above and replace them with back-to-back stainless-steel worktables and a table mounted over shelf with an integrated utensil and pot rack. The table mounted over shelf should effectively reduce construction costs, since there will not be a need to ceiling mount the unit. The shelf will also provide some storage and a more adequate reach for the operator. The table facing the cooking line will host hot wells for holding food coming off the cooking line and undercounter refrigeration to support the cooking line. Adjacent to the tables will be two heated holding cabinets - one for holding items coming off the cooking line and the other used to requisition to-go orders.

The existing cooking equipment is not adequate for the intended operation. It is hardly used today except for cooking seldom breakfasts. For an operation that will produce one-hundred-sixty meals per day, there will need to be infrastructure changes. For one, the existing cooking equipment will need to be removed and replaced with commercial grade equipment that can handle bulk production such as a tilt skillet, also known as a braising pan, a six-burner range, a griddle, also known as a flat top, and a double stack combi oven. A combi oven, short for combination oven, is a very effective hybrid oven that has both convection and steaming capabilities. It allows the operator to use it in one of three ways, convection only, steam only, or convection and steam. This allows for the ultimate flexibility of the menu. The introduced steam, coupled with smart controls, create consistent product for a wide range of menu items in a foolproof manner. Since the only gas equipment is the existing range, it is recommended to remove the gas and replace with an electric range. This would effectively change the kitchen to be all electric. An all-electric kitchen leans towards a net-zero approach as it will reduce greenhouse emissions caused by equivalent gas equipment. There is a higher upfront cost for electric equipment, however, if reducing the facilities carbon footprint or keeping up with the latest trends is a concern.

The existing gas shutoff valve, located in the existing Employee Breakroom, was noted to have issues during the site visit. Not only was it located in a non-ideal location – right above the countertop as you walk into to the space – it was also noted to be overheating and was being protected by a makeshift plywood box that was also warm to the touch. The general recommendation would be to remove the gas valve as it is unsafe and move towards an all-electric kitchen.

With the changes in cooking equipment will come the need to update the exhaust hood and potentially the fan and ductwork, as well as the Ansul system. The hood will need to be larger to capture the heat and affluents coming from the equipment and the fire suppression tank sizes and drop locations will need to be reworked. Ventless technology could be used for the double combi oven to reduce the hood size, if need be. However, the ventless hood option comes at a premium and may not make sense depending on the cost and structural requirements.

The current refrigeration is also inadequate. All three refrigerators are residential size and will not be able to handle the demand for larger cooking volumes. The recommendation is to remove the standalone reach-in units and replace with a combination walk-in cooler and freezer box. To achieve this the existing Storage Room will need to be removed and its equipment relocated as this is the ideal location for a walk-in.

The existing Employee Break Room should ideally be converted to a dry storage room. With a high-density shelving system storage can be maximized in this space. This room can also host a small table or mobile cart with a microwave and coffee brewer for the employees to use, if management does not feel comfortable with employees reheating in the microwave or grabbing coffee from the dispensers provided for customer use. The fire suppression Ansul box and the electrical boxes will remain in this room to minimize impacts to the infrastructure.

Narrative / 08.12.22 Needham Senior Center



FEASIBILITY STUDY FOODSERVICE

Holding and serving equipment will also need to be incorporated. At the serving window there is currently a three well hot food unit which is appropriately sized. However, there have been some advances in technology, and it may be appropriate to replace the hot wells with a combination hot and cold food well. These wells can be independently set to be hot or cold at the individual wells allowing for maximum flexibility and changes in the menu. Undercounter heated cabinets and refrigerators will also be needed to maintain food safety temperatures for any products that will be packaged or held for later use. The ice machine will be relocated next to the serving counter as you walk into the kitchen from the dining room. This is an ideal location if needing to grab ice quickly.

The existing ware washing area will need to be reworked. The two existing undercounter dishwashers appear to be in good condition and could potentially be reused, if desired, with minimal impact to the proposed plan. However, given the production requested, larger pots and sheet pans will need to be used, meaning a new three-compartment sink that can manage larger pots/pans will be required. If there is a desire to not manually wash larger pots/pans, it is recommended to upgrade the two undercounter dish machines to one stand up ventless dish machine with the proper associated clean and soiled dish tables, as represented in the proposed layout. To conserve on space the pot sink can be incorporated into the clean dish table. With these changes, the grease trap, located in the existing Receiving Area, will likely need to be resized by the plumbing engineer.

Food Preparation, shown in the ideal location, on the proposed plan, between cold storage, dry storage, and cooking, will need to be updated to comprise of a large stainless-steel worktable with two-compartment sinks. A two-bay prep sink is typically used to separate produce from proteins. Other prep equipment will be required such as a mixer, a slicer, food processers, etc. Moreover, the existing millwork counters are under the ideal height to work on at thirty-three inches. Typically, kitchen worktables are a minimum of thirty-four to thirty-six inches high, with thirty-four inches used in areas where accessibility may be a concern but is not explicitly required in employee work areas per the ADA. The American with Disabilities Act (ADA) notes in chapter 2 section 203.9 Employee Work Areas that the accessibility requirements that need to be met for employee work areas apply to the approach, entrance, and exits of the work area, an accessible means of egress, wiring for visual/audible alarms, accessible common use circulation paths in most work areas of at least one-thousand square feet. Nevertheless, the current design is mostly accessible in the kitchen with appropriate turning radii and circulation paths. The potential exception would be worktable heights if using thirty-six-inch-high tables.

The existing Receiving area is its own confined room, and the proposed plan is to completely open it up to have direct access into the kitchen and create a large short-term landing area. It will host trash holding and recycling bins and the employee lockers, as well.

Finally, in the dining room it is proposed to update the counter for a deeper millwork counter that can be used for condiments, trash, and pick-up, largely the same way it is today. The exception being that the new counter would also host self-serve hot and cold beverages, including an ice and water dispenser. This will help cut down on the number of employees needed as customers can simply serve themselves and improve turnaround time.

ESTIMATED COSTS

The estimated foodservice budget is based on a square foot price and considers the current supply-chain issues, as well as the median dealer discount, mark-up, freight rates, and final delivery and set-in-place of the foodservice equipment and millwork. Due to the volatility of the current supply-chain market, the rapid changes in rates, and variations in dealer discounts, mark-ups, and freight rates the estimated costs shown are subject



FEASIBILITY STUDY FOODSERVICE

to change. Moreover, some equipment is experiencing delayed lead times that can range anywhere from six months to a year and a project turnover timeline should take this timeframe into account. The costs reflected do not include MEP connections by trades or any other "hard" construction costs.

Given an overall square footage of approximately nine-hundred twenty-eight square feet the estimated cost will range anywhere from \$200,000 - \$255,000. This budget is for use with the order of magnitude only. Itemized budget numbers will be provided during the design development and construction document phase of the project.

Furthermore, the operation would require at least three employees working in the space at any one time. That includes a foodservice manager, will need to be ServeSafe (or equivalent) certified, a cook, and a support worker for tasks such as dishwashing, cleaning, aiding in prep, packaging, and serving.

CONCLUSION

Though the foodservice space at the Needham Senior Center seems small at only nine-hundred-twenty-eight square feet a high-level overview indicates that the space can accommodate the operations for a production kitchen that can handle one-hundred-sixty meals per day. The deficiency today being wasted space in the main kitchen, due to the center island, and the mix use of commercial and residential equipment which is not adequate for bulk production. With improvements to the overall flow, adjacencies, and equipment the end goal for a small production kitchen of approximately one-hundred-sixty meals per day can be achieved.



SECTION THREE

Feasibility Cost Estimate 3.1 - Conceptual Design Estimate by PM&C





Feasibility Estimate

Needham Senior Center Kitchen Renovations

Needham, MA

PMC LLC 20 Downer Avenue, Suite 5 Hingham MA 02043

(ph) 781-740-8007

(f) 781-740-1012

NEEDHAM CATH SPACE UTILIZATION STUDY

Prepared for:

Socotec AE Consulting, LLC

November 11, 2022



Needham Senior Center Kitchen Renovations Needham, MA

11-Nov-22

Feasibility Estimate

MAIN CONSTRUCTION COST SUMMARY

	Construction Start	\$/SF	Estimated Construction Cost
	Summer 2023		
KITCHEN RENO			\$665,631
HAZ MAT Removal			NIC
SUBTOTAL TRADE COSTS			\$665,631
Design and Estimating Contingency	15.0%		\$99,845
Escalation	5.3%		\$35,278
SUBTOTAL			\$800,754
General Conditions/GR's -			\$100,000
Insurances	2.0%		\$18,015
Bond	1.00%		\$8,008
Fee	10.0%		\$92,678
Building Permit			Assume by Owner
AL CONSTRUCTION COSTS			\$1,019,455



Needham Senior Center Kitchen Renovations Needham, MA

11-Nov-22

Feasibility Estimate

This Feasibility estimate was produced from drawings prepared by Socotec AE Consulting dated October 11, 2022. Design and engineering changes occurring subsequent to the issue of these documents have not been incorporated in this estimate.

This estimate includes all direct construction costs, general contractor's overhead and profit and design contingency. Cost escalation assumes start dates indicated.

Bidding conditions are expected to be negotiated pricing to pre-qualified general contractors, and pre-qualified sub-contractors, open specifications for materials and manufacturers.

The estimate is based on prevailing wage rates for construction in this market and represents a reasonable opinion of cost. It is not a prediction of the successful bid from a contractor as bids will vary due to fluctuating market conditions, errors and omissions, proprietary specifications, lack or surplus of bidders, perception of risk, etc. Consequently the estimate is expected to fall within the range of bids from a number of competitive contractors or subcontractors, however we do not warrant that bids or negotiated prices will not vary from the final construction cost estimate.

ITEMS NOT CONSIDERED IN THIS ESTIMATE

Items not included in this estimate are:

All professional fees and insurance
Building Permit costs
Land acquisition, feasibility, and financing costs
All Furnishings, Fixtures and Equipment
Items identified in the design as Not In Contract (NIC)
Items identified in the design as by others
Owner supplied and/or installed items (e.g. draperies, furniture and equipment)
Construction or occupancy phasing or off hours' work - except as noted in the estimate



Needham Senior Center Kitchen Renovations Needham, MA

Feasibility Estimate

CONSTRUCTION COST SUMMARY IN CSI FORMAT

		Subtotal	Total
DIV. 2	EXISTING CONDITIONS		\$00.0EE
DIV. 2	024100 Selective Demolition	\$32,355	\$32,355
	025000 Haz Mat Removal	Ф32,355 N.I.C.	
DIII. a		111101	ф
DIV. 3	CONCRETE	ф т г оо	\$7,500
	031000 Concrete	\$7,500	
DIV. 4	MASONRY		\$0
	042000 Unit Masonry	\$ 0	
DIV. 5	METALS		\$2,823
	055000 Metal Fabrications	\$2,823	
DIV. 6	WOODS, PLASTICS & COMPOSITES		\$4,705
	061000 Rough Carpentry	\$1,882	+ 4,7 = 0
	062000 Finish Carpentry	\$2,823	
DIV 7	THERMAL & MOISTURE PROTECTION		\$941
DIV.	070001 Joint Sealants, Waterproofing & Dampproofing	\$941	Ψ941
		Ψ94-	
DIV. 8		φ	\$0
	081110 Doors, Frames and Hardware	\$ 0	
DIV. 9	FINISHES		\$76,817
	090002 Tile	\$ 0	
	090003 Acoustical Tile	\$56,851	
	090007 Painting	\$6,084	
	090003 Resilient Flooring	\$0	
	096800 Carpet 092900 GWB Assemblies	\$1,000 \$12,882	
	092900 GWB Assemblies	\$12,002	
DIV. 10	SPECIALTIES		\$29,720
	101100 Visual Display Boards	\$ 0	
	101400 Signage	\$1,000	
	102113 Toilet Compartments	\$0	
	102600 Wall Protection	\$27,720	
	102813 Toilet Accessories	\$0	
	104400 Fire Protection Specialties	\$1,000	



Needham Senior Center Kitchen Renovations Needham, MA

Feasibility Estimate

CONSTRUCTION COST SUMMARY IN CSI FORMAT Subtotal Total**DIV. 11 EQUIPMENT** \$254,070 114000 Food Service Equipment \$254,070 **DIV. 12 FURNISHINGS** \$28,800 123000 Casework \$28,800 126000 Window Treatments **DIV. 13 SPECIAL CONSTRUCTION \$0** 139000 Special Construction \$o DIV. 14 CONVEYING **\$0** 142000 Conveying \$o **DIV.21 FIRE PROTECTION** \$4,705 210000 Fire Protection \$4,705 DIV.22 PLUMBING \$85,775 220000 Plumbing \$85,775 DIV.23 HVAC \$64,018 230000 HVAC \$64,018 DIV.26 ELECTRICAL \$61,402 260000 Electrical \$61,402 **DIV.32 EARTHWORK** \$12,000 320000 Earthwork \$12,000 SUBTOTAL DIRECT (TRADE) COST \$665,631



Needham Senior Center Kitchen Renovations Needham, MA

11-Nov-22

	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	C
en Renov	ation	•		<u>'</u>		<u>"</u>	
	Renovation area						
	Kitchen	941					
	TOTAL	941	gsf				
02	EXISTING CONDITIONS]					
021500	DEMOLITION						
	Remove SOG for new below grade grease trap and floor drains	300	sf	15.00	4,500		
	Demo and remove ceramic tile floor finishes and bases	941	sf	6.00	5,646		
	Demo and remove ceiling (tile and gwb)	941	sf	3.00	2,823		
	Demo and remove door, frame and hardware				NIC		
	GWB from one side of ETR framing	200	lf	36.00	7,200		
	Miscellaneous interior demolition - counters, casework and accessories etc.	941	gsf	2.00	1,882		
	Remove cut and capped fixtures and fittings	941	gsf	4.00	3,764		
	Remove existing kitchen equipment				By owner		
	Temp partition	30	lf	108.00	3,240		
	Temp door	1	loc	800.00	800		
	Dust control & protection of existing to remain - allowance	1	ls	2,500.00	2,500		
	SUBTOTAL					32,355	
025000							
	HAZ MAT removal				By Owner		
	SUBTOTAL					-	
mom:-:	CISTING CONDITIONS						
TOTALEA	III III CONDITIONS						
03	CONCRETE]					
03	CONCRETE]					
	CONCRETE	300	sf	25.00	7,500		
03	CONCRETE	300	sf	25.00	7,500	7,500	
03	CONCRETE CONCRETE Replace slab on grade with new- SUBTOTAL	300	sf	25.00	7,500	7,500	
03 031000	CONCRETE CONCRETE Replace slab on grade with new- SUBTOTAL ONCRETE	300	sf	25.00	7,500	7,500	
03 031000 TOTAL CO	CONCRETE CONCRETE Replace slab on grade with new- SUBTOTAL ONCRETE MASONRY	300	sf	25.00	7,500	7,500	
03 031000	CONCRETE CONCRETE Replace slab on grade with new- SUBTOTAL DIVERTE MASONRY UNIT MASONRY	300	sf	25.00	7,500	7,500	
03 031000 TOTAL CO	CONCRETE CONCRETE Replace slab on grade with new- SUBTOTAL ONCRETE MASONRY	300	sf	25.00	7,500	7,500	
03 031000 TOTAL CO	CONCRETE Replace slab on grade with new- SUBTOTAL DNCRETE MASONRY UNIT MASONRY SUBTOTAL	300	sf	25.00	7,500	7,500 -	
03 031000 TOTAL CO 04 042000	CONCRETE Replace slab on grade with new- SUBTOTAL DNCRETE MASONRY UNIT MASONRY SUBTOTAL	300	sf	25.00	7,500	7,500	
03 031000 TOTAL CC 04 042000 TOTAL M.	CONCRETE Replace slab on grade with new- SUBTOTAL DNCRETE MASONRY UNIT MASONRY SUBTOTAL ASONRY METALS	300	sf	25.00	7,500	7,500	
03 031000 TOTAL CO 04 042000	CONCRETE CONCRETE Replace slab on grade with new- SUBTOTAL ONCRETE MASONRY UNIT MASONRY SUBTOTAL ASONRY METALS METAL FABRICATIONS					7,500	
03 031000 TOTAL CC 04 042000 TOTAL M.	CONCRETE CONCRETE Replace slab on grade with new- SUBTOTAL ONCRETE MASONRY UNIT MASONRY SUBTOTAL ASONRY METALS METAL FABRICATIONS Misc. metals allowance	300	sf	25.00	7,500 2,823	-	
03 031000 TOTAL CC 04 042000 TOTAL M.	CONCRETE CONCRETE Replace slab on grade with new- SUBTOTAL ONCRETE MASONRY UNIT MASONRY SUBTOTAL ASONRY METALS METAL FABRICATIONS					7,500 - - 2,823	
03 031000 TOTAL CC 04 042000 TOTAL M.	CONCRETE Replace slab on grade with new- SUBTOTAL ONCRETE MASONRY UNIT MASONRY SUBTOTAL ASONRY METALS METAL FABRICATIONS Misc. metals allowance SUBTOTAL					-	
03 031000 TOTAL CO 04 042000 TOTAL M. 05	CONCRETE CONCRETE Replace slab on grade with new- SUBTOTAL ONCRETE MASONRY UNIT MASONRY SUBTOTAL ASONRY METALS METAL FABRICATIONS Misc. metals allowance SUBTOTAL ETALS					-	
03 031000 TOTAL CO 04 042000 TOTAL M. 05	CONCRETE CONCRETE Replace slab on grade with new- SUBTOTAL ONCRETE MASONRY UNIT MASONRY SUBTOTAL ASONRY METALS METAL FABRICATIONS Misc. metals allowance SUBTOTAL ETALS WOOD & PLASTICS					-	
03 031000 TOTAL CO 04 042000 TOTAL M. 05	CONCRETE CONCRETE Replace slab on grade with new- SUBTOTAL DINCRETE MASONRY UNIT MASONRY SUBTOTAL ASONRY METALS METAL FABRICATIONS Misc. metals allowance SUBTOTAL ETALS WOOD & PLASTICS ROUGH CARPENTRY	941	gsf	3.00	2,823	-	
03 031000	CONCRETE CONCRETE Replace slab on grade with new- SUBTOTAL DINCRETE MASONRY UNIT MASONRY SUBTOTAL ASONRY METALS METAL FABRICATIONS Misc. metals allowance SUBTOTAL ETALS WOOD & PLASTICS ROUGH CARPENTRY Misc. blocking allowance					2,823	
03 031000	CONCRETE CONCRETE Replace slab on grade with new- SUBTOTAL DINCRETE MASONRY UNIT MASONRY SUBTOTAL ASONRY METALS METAL FABRICATIONS Misc. metals allowance SUBTOTAL ETALS WOOD & PLASTICS ROUGH CARPENTRY	941	gsf	3.00	2,823	-	
03 031000 TOTAL CO 04 042000 TOTAL M. 05 055000 TOTAL M. 06 061000	CONCRETE Replace slab on grade with new-SUBTOTAL ONCRETE MASONRY UNIT MASONRY SUBTOTAL ASONRY METALS METAL FABRICATIONS Misc. metals allowance SUBTOTAL ETALS WOOD & PLASTICS ROUGH CARPENTRY Misc. blocking allowance SUBTOTAL	941	gsf	3.00	2,823	2,823	
03 031000	CONCRETE Replace slab on grade with new-SUBTOTAL ONCRETE MASONRY UNIT MASONRY SUBTOTAL ASONRY METALS METAL FABRICATIONS Misc. metals allowance SUBTOTAL ETALS WOOD & PLASTICS ROUGH CARPENTRY Misc. blocking allowance SUBTOTAL	941	gsf	3.00	2,823	2,823	

Needham Senior Center Kitchen Renovations Needham, MA

11-Nov-22

CODE		DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	COST
Kitchen	Renovat	tion					•	
		SUBTOTAL					2,823	
T	OTAL WO	OD & PLASTICS						\$4
								•
	07	THERMAL & MOISTURE PROTECTION]					
	070001	WATERPROOFING, DAMPPROOFING & CAULKING						
	0/0001	Sealant allowance	941	gsf	1.00	941		
		SUBTOTAL		_			941	
_								
T	OTAL THI	ERMAL AND MOISTURE PROTECTION						
	08	DOORS & WINDOWS]					
	081100	DOORS, FRAMES AND HARDWARE						
		No work assumed						
		SUBTOTAL					-	
_								
T	OTAL DO	ORS AND WINDOWS						
	09	FINISHES]					
	0900002	TILE						
		Ceramic wall tile backsplash	84	sf	40.00	3,360		
		Quarry floor tile	941	sf	38.00	35,758		
		Quarry floor tile base	201	lf	18.00	3,618		
		SUBTOTAL					-	
	0900003	ACOUSTIC CEILING TILE						
		Acoustic ceiling tile; washable	941	sf	15.00	14,115		
		SUBTOTAL					56,851	
		DAINITING AND COATING						
	090007	PAINTING AND COATING Prepare, prime and paint existing to remain walls and doors	1	ls	1,500.00	1,500		
		allowance	1	15	1,500.00	1,500		
		New sheetrock walls	764	sf	6.00	4,584		
		SUBTOTAL					6,084	
							-,,	
	096500	RESILIENT FLOORING						
		No work assumed						
		SUBTOTAL					-	
	096800			1-	100000			
		Allowance to patch and repair assumed carpet at dinning	1	ls	1,000.00	1,000		
		SUBTOTAL					1,000	
	092900	GYPSUM BOARD ASSEMBLIES						
	J9=900	Apply new MR GWB to existing studs	1,800	sf	5.00	9,000		
		Allowance to patch ETR partitions disturbed by new MEP work	941	gsf	2.00	1,882		
		GWB ceilings and soffits allowance	1	ls	2,000.00	2,000		
		SUBTOTAL			,	,	12,882	
T	OTAL FIN	ISHES						\$70
_								+7
10	o - SPECIA	ALTIES						•
	101100	VISUAL DISPLAY SURFACES				No scope		
	101100							
	101100	SUBTOTAL					-	

SOCOTEC KITCHEN REPORT

PM&C

Needham Senior Center Kitchen Renovations Needham, MA

11-Nov-22

E				UNIT	EST'D	SUB	TOTAL
	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
hen Renov							
101400	SIGNAGE		,				
	Signage and graphics allowance	1	ls	1,000.00	1,000		
	SUBTOTAL					1,000	
102110	TOILET COMPARTMENTS						
	SUBTOTAL					-	
102600	WALL Protection				_		
	Stainless steel wall panel (8' high)	256	sf	50.00	12,800		
	FRP wall panel (8' high)	696	sf	20.00	13,920		
	Allowance for wall protection	1	ls	1,000.00	1,000		
	SUBTOTAL					27,720	
102800	TOILET ACCESSORIES						
	No work assumed						
	SUBTOTAL					-	
104400	FIRE PROTECTION SPECIALTIES						
104400	Fire extinguisher cabinets	1	ls	1,000.00	1,000		
	SUBTOTAL	-		-,=00.00	2,000	1,000	
						-,	
TOTAL - S	SPECIALTIES						\$29,7
11 - EQUII	PMENT						
114000	FOOD SEWRVICE EQUIP.						
114000	Food service equipment budget per Colburn Guyette report dated 8-	0.44	a f	050.00	054.050		
	12-22	941	sf	270.00	254,070		
	SUBTOTAL					254,070	
	COLUMNITATION						\$254,0
TOTAL - I	EQUIPMENT						
TOTAL - 1							
12 - FURN							
12 - FURN	ISHINGS	15	lf	550.00	8,250		
12 - FURN	ISHINGS o CASEWORK	15	lf lf	550.00 550.00	8,250 6,050		
12 - FURN	ISHINGS o CASEWORK Pickup, base and counter Prep cabinet, base and counter Prep upper shelf						
12 - FURN	O CASEWORK Pickup, base and counter Prep cabinet, base and counter Prep upper shelf Serving cabinet, base and counter	11	lf lf lf	550.00	6,050 3,850 7,700		
12 - FURN	ISHINGS O CASEWORK Pickup, base and counter Prep cabinet, base and counter Prep upper shelf Serving cabinet, base and counter Serving upper shelf	11 11 14 5	lf lf lf lf	550.00 350.00 550.00 350.00	6,050 3,850 7,700 1,750		
12 - FURN	ISHINGS O CASEWORK Pickup, base and counter Prep cabinet, base and counter Prep upper shelf Serving cabinet, base and counter Serving upper shelf Misc. casework at serve window	11 11 14	lf lf lf	550.00 350.00 550.00	6,050 3,850 7,700	00.00	
12 - FURN	ISHINGS O CASEWORK Pickup, base and counter Prep cabinet, base and counter Prep upper shelf Serving cabinet, base and counter Serving upper shelf	11 11 14 5	lf lf lf lf	550.00 350.00 550.00 350.00	6,050 3,850 7,700 1,750	28,800	
12 - FURN 12300	ISHINGS O CASEWORK Pickup, base and counter Prep cabinet, base and counter Prep upper shelf Serving cabinet, base and counter Serving upper shelf Misc. casework at serve window	11 11 14 5	lf lf lf lf	550.00 350.00 550.00 350.00	6,050 3,850 7,700 1,750	28,800	
12 - FURN 12300	O CASEWORK Pickup, base and counter Prep cabinet, base and counter Prep upper shelf Serving cabinet, base and counter Serving upper shelf Misc. casework at serve window SUBTOTAL	11 11 14 5	lf lf lf lf	550.00 350.00 550.00 350.00	6,050 3,850 7,700 1,750 1,200	28,800	
12 - FURN 12300	ISHINGS O CASEWORK Pickup, base and counter Prep cabinet, base and counter Prep upper shelf Serving cabinet, base and counter Serving upper shelf Misc. casework at serve window SUBTOTAL O WINDOW TREATMENTS	11 11 14 5	lf lf lf lf	550.00 350.00 550.00 350.00	6,050 3,850 7,700 1,750 1,200	28,800	\$28,8
12 - FURN 12300 12600	ISHINGS O CASEWORK Pickup, base and counter Prep cabinet, base and counter Prep upper shelf Serving cabinet, base and counter Serving upper shelf Misc. casework at serve window SUBTOTAL O WINDOW TREATMENTS SUBTOTAL	11 11 14 5	lf lf lf lf	550.00 350.00 550.00 350.00	6,050 3,850 7,700 1,750 1,200	28,800	\$28,8
12 - FURN 12300 12600	ISHINGS O CASEWORK Pickup, base and counter Prep cabinet, base and counter Prep upper shelf Serving cabinet, base and counter Serving upper shelf Misc. casework at serve window SUBTOTAL O WINDOW TREATMENTS SUBTOTAL	11 11 14 5	lf lf lf lf	550.00 350.00 550.00 350.00	6,050 3,850 7,700 1,750 1,200	28,800	\$28,8
12 - FURN 12300 12600 TOTAL - 1	ISHINGS O CASEWORK Pickup, base and counter Prep cabinet, base and counter Prep upper shelf Serving cabinet, base and counter Serving upper shelf Misc. casework at serve window SUBTOTAL O WINDOW TREATMENTS SUBTOTAL	11 11 14 5	lf lf lf lf	550.00 350.00 550.00 350.00	6,050 3,850 7,700 1,750 1,200	28,800	\$28,8
12 - FURN 12300 12600 TOTAL - 1	ISHINGS O CASEWORK Pickup, base and counter Prep cabinet, base and counter Prep upper shelf Serving cabinet, base and counter Serving upper shelf Misc. casework at serve window SUBTOTAL O WINDOW TREATMENTS SUBTOTAL FURNISHINGS PROTECTION O FIRE PROTECTION Remove and reinstall branch piping and sprinkler heads as	11 11 14 5	lf lf lf lf	550.00 350.00 550.00 350.00	6,050 3,850 7,700 1,750 1,200	28,800	\$28,8
12 - FURN 12300 12600 TOTAL - 1	ISHINGS O CASEWORK Pickup, base and counter Prep cabinet, base and counter Prep upper shelf Serving cabinet, base and counter Serving upper shelf Misc. casework at serve window SUBTOTAL O WINDOW TREATMENTS SUBTOTAL FURNISHINGS PROTECTION Remove and reinstall branch piping and sprinkler heads as required for renovated spaces	11 11 14 5 6	If If If If If If	550.00 350.00 550.00 350.00 200.00	6,050 3,850 7,700 1,750 1,200 Assume ETR	-	\$28,8
12 - FURN 12300 12600 TOTAL - 1	ISHINGS O CASEWORK Pickup, base and counter Prep cabinet, base and counter Prep upper shelf Serving cabinet, base and counter Serving upper shelf Misc. casework at serve window SUBTOTAL O WINDOW TREATMENTS SUBTOTAL FURNISHINGS PROTECTION O FIRE PROTECTION Remove and reinstall branch piping and sprinkler heads as	11 11 14 5 6	If If If If If If	550.00 350.00 550.00 350.00 200.00	6,050 3,850 7,700 1,750 1,200 Assume ETR	28,800	\$28,80



Needham Senior Center
Kitchen Renovations

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	COST
Citchen Renov	ation	ı		1			
22 - PLUN	IBING						
22000	oo PLUMBING						
	<u>Plumbing Fixtures</u> Connect to new kitchen equipment	25	ea	800.00	20,000		
	Replace Gas Shutoff /Ansul System	-3 1	ea	000.00	BY OWNER		
	Floor drains	4	ea	1,200.00	4,800		
	Domestic Water Piping	•		,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	Extend or repair fixture rough-in piping	25	ea	250.00	6,250		
	Pipe Insulation						
	Pipe insulation or replace, as required	25	ea	75.00	1,875		
	Sanitary Waste And Vent Pipe	_					
	New sanitary underground pipe	80	lf	130.00	10,400		
	Extend fixture rough-in piping at fixtures	30	ea	300.00	9,000		
	Grease tank and pump (50 gmp), recessed	1	ls	15,000.00	15,000		
	Clean existing sanitary system, underground	1	loc	800.00	800		
	Clean existing sanity pipe allowance Miscellaneous	1	ls	4,500.00	4,500		
	Miscenaneous Coordination & management	1	ls	10,000.00	10,000		
	Coring, sleeves & fire stopping	1	ls	1,500.00	1,500		
	Testing and sterilization	1	ls	600.00	600		
	Fees & permits	1	ls	1,050.00	1,050		
	SUBTOTAL				, 0	85,775	
TOTAL -	PLUMBING						\$85
							\$85
23	PLUMBING HVAC						\$85
	HVAC						\$85
23	HVAC						\$85
23	HVAC HVAC, GENERALLY	1	ea	7,500.00	7,500		\$85
23	HVAC HVAC, GENERALLY Equipment	1 1	ea ea	7,500.00 4,500.00	7,500 4,500		\$85
23	HVAC, GENERALLY Equipment VRF Heat Pump VRF Branch Controller VRF 4-Way Cassette w/ Grill			4,500.00 2,800.00	4,500 5,600		\$85
23	HVAC, GENERALLY Equipment VRF Heat Pump VRF Branch Controller VRF 4-Way Cassette w/ Grill Kitchen Exhaust Fan KEF-1	1 2 1	ea ea ea	4,500.00 2,800.00 6,500.00	4,500 5,600 6,500		\$8 ₅
23	HVAC, GENERALLY Equipment VRF Heat Pump VRF Branch Controller VRF 4-Way Cassette w/ Grill Kitchen Exhaust Fan KEF-1 Kitchen Makeup Air Fan, MAU-1	1 2	ea ea	4,500.00 2,800.00	4,500 5,600		<u> </u>
23	HVAC, GENERALLY Equipment VRF Heat Pump VRF Branch Controller VRF 4-Way Cassette w/ Grill Kitchen Exhaust Fan KEF-1 Kitchen Makeup Air Fan, MAU-1 Sheet metal & Accessories	1 2 1 1	ea ea ea	4,500.00 2,800.00 6,500.00 6,500.00	4,500 5,600 6,500 6,500		<u> </u>
23	HVAC, GENERALLY Equipment VRF Heat Pump VRF Branch Controller VRF 4-Way Cassette w/ Grill Kitchen Exhaust Fan KEF-1 Kitchen Makeup Air Fan, MAU-1 Sheet metal & Accessories Grease Duct, Welded	1 2 1 1	ea ea ea ea	4,500.00 2,800.00 6,500.00 6,500.00	4,500 5,600 6,500 6,500		*85
23	HVAC, GENERALLY Equipment VRF Heat Pump VRF Branch Controller VRF 4-Way Cassette w/ Grill Kitchen Exhaust Fan KEF-1 Kitchen Makeup Air Fan, MAU-1 Sheet metal & Accessories Grease Duct, Welded Insulation, Fyre Wrap	1 2 1 1	ea ea ea	4,500.00 2,800.00 6,500.00 6,500.00	4,500 5,600 6,500 6,500		*85
23	HVAC HVAC, GENERALLY Equipment VRF Heat Pump VRF Branch Controller VRF 4-Way Cassette w/ Grill Kitchen Exhaust Fan KEF-1 Kitchen Makeup Air Fan, MAU-1 Sheet metal & Accessories Grease Duct, Welded Insulation, Fyre Wrap HVAC Piping	1 2 1 1	ea ea ea ea	4,500.00 2,800.00 6,500.00 6,500.00	4,500 5,600 6,500 6,500		\$85
23	HVAC HVAC, GENERALLY Equipment VRF Heat Pump VRF Branch Controller VRF 4-Way Cassette w/ Grill Kitchen Exhaust Fan KEF-1 Kitchen Makeup Air Fan, MAU-1 Sheet metal & Accessories Grease Duct, Welded Insulation, Fyre Wrap HVAC Piping Refrigerant Piping	1 2 1 1 80 80	ea ea ea lf lf	4,500.00 2,800.00 6,500.00 6,500.00 30.00 8.00	4,500 5,600 6,500 6,500 2,400 640		*85
23	HVAC HVAC, GENERALLY Equipment VRF Heat Pump VRF Branch Controller VRF 4-Way Cassette w/ Grill Kitchen Exhaust Fan KEF-1 Kitchen Makeup Air Fan, MAU-1 Sheet metal & Accessories Grease Duct, Welded Insulation, Fyre Wrap HVAC Piping Refrigerant Piping Refrigerant Piping with inline components	1 2 1 1	ea ea ea ea	4,500.00 2,800.00 6,500.00 6,500.00	4,500 5,600 6,500 6,500		*85
23	HVAC, GENERALLY Equipment VRF Heat Pump VRF Branch Controller VRF 4-Way Cassette w/ Grill Kitchen Exhaust Fan KEF-1 Kitchen Makeup Air Fan, MAU-1 Sheet metal & Accessories Grease Duct, Welded Insulation, Fyre Wrap HVAC Piping Refrigerant Piping Refrigerant Piping with inline components Condensate Drain Piping	1 2 1 1 80 80	ea ea ea lf lf	4,500.00 2,800.00 6,500.00 6,500.00 30.00 8.00	4,500 5,600 6,500 6,500 2,400 640		*85
23	HVAC HVAC, GENERALLY Equipment VRF Heat Pump VRF Branch Controller VRF 4-Way Cassette w/ Grill Kitchen Exhaust Fan KEF-1 Kitchen Makeup Air Fan, MAU-1 Sheet metal & Accessories Grease Duct, Welded Insulation, Fyre Wrap HVAC Piping Refrigerant Piping Refrigerant Piping with inline components	1 2 1 1 80 80	ea ea ea lf lf	4,500.00 2,800.00 6,500.00 6,500.00 30.00 8.00	4,500 5,600 6,500 6,500 2,400 640		*85
23	HVAC, GENERALLY Equipment VRF Heat Pump VRF Branch Controller VRF 4-Way Cassette w/ Grill Kitchen Exhaust Fan KEF-1 Kitchen Makeup Air Fan, MAU-1 Sheet metal & Accessories Grease Duct, Welded Insulation, Fyre Wrap HVAC Piping Refrigerant Piping Refrigerant Piping with inline components Condensate Drain Piping Copper pipe type L with fittings & hangers	1 2 1 1 80 80	ea ea ea lf lf	4,500.00 2,800.00 6,500.00 6,500.00 30.00 8.00	4,500 5,600 6,500 6,500 2,400 640		*85
23	HVAC, GENERALLY Equipment VRF Heat Pump VRF Branch Controller VRF 4-Way Cassette w/ Grill Kitchen Exhaust Fan KEF-1 Kitchen Makeup Air Fan, MAU-1 Sheet metal & Accessories Grease Duct, Welded Insulation, Fyre Wrap HVAC Piping Refrigerant Piping Refrigerant Piping with inline components Condensate Drain Piping Copper pipe type L with fittings & hangers Piping Insulation	1 2 1 1 80 80 80	ea ea ea lf lf ea	4,500.00 2,800.00 6,500.00 6,500.00 30.00 8.00 35.00	4,500 5,600 6,500 6,500 2,400 640 8,400		*85
23	HVAC HVAC, GENERALLY Equipment VRF Heat Pump VRF Branch Controller VRF 4-Way Cassette w/ Grill Kitchen Exhaust Fan KEF-1 Kitchen Makeup Air Fan, MAU-1 Sheet metal & Accessories Grease Duct, Welded Insulation, Fyre Wrap HVAC Piping Refrigerant Piping Refrigerant Piping with inline components Condensate Drain Piping Copper pipe type L with fittings & hangers Piping Insulation Piping insulation, Refrigerant	1 2 1 1 80 80 80	ea ea ea lf lf ea	4,500.00 2,800.00 6,500.00 6,500.00 30.00 8.00 35.00	4,500 5,600 6,500 6,500 2,400 640 8,400		*85
23	HVAC, GENERALLY Equipment VRF Heat Pump VRF Branch Controller VRF 4-Way Cassette w/ Grill Kitchen Exhaust Fan KEF-1 Kitchen Makeup Air Fan, MAU-1 Sheet metal & Accessories Grease Duct, Welded Insulation, Fyre Wrap HVAC Piping Refrigerant Piping Refrigerant Piping with inline components Condensate Drain Piping Copper pipe type L with fittings & hangers Piping Insulation Piping insulation, Refrigerant Temperature Controls (DDC)	1 2 1 1 80 80 240	ea ea ea lf lf ea ea	4,500.00 2,800.00 6,500.00 6,500.00 30.00 8.00 35.00 700.00	4,500 5,600 6,500 6,500 2,400 640 8,400 1,400		\$85
23	HVAC HVAC, GENERALLY Equipment VRF Heat Pump VRF Branch Controller VRF 4-Way Cassette w/ Grill Kitchen Exhaust Fan KEF-1 Kitchen Makeup Air Fan, MAU-1 Sheet metal & Accessories Grease Duct, Welded Insulation, Fyre Wrap HVAC Piping Refrigerant Piping Refrigerant Piping Refrigerant Piping Copper pipe type L with fittings & hangers Piping Insulation Piping insulation, Refrigerant Temperature Controls (DDC) Provide and connect new VRF controls to BMS	1 2 1 1 80 80 240	ea ea ea lf lf ea ea	4,500.00 2,800.00 6,500.00 6,500.00 30.00 8.00 35.00 700.00	4,500 5,600 6,500 6,500 2,400 640 8,400 1,400		*85
23	HVAC HVAC, GENERALLY Equipment VRF Heat Pump VRF Branch Controller VRF 4-Way Cassette w/ Grill Kitchen Exhaust Fan KEF-1 Kitchen Makeup Air Fan, MAU-1 Sheet metal & Accessories Grease Duct, Welded Insulation, Fyre Wrap HVAC Piping Refrigerant Piping Refrigerant Piping Refrigerant Piping Copper pipe type L with fittings & hangers Piping Insulation. Piping insulation, Refrigerant Temperature Controls (DDC) Provide and connect new VRF controls to BMS Balancing System testing & balancing Miscellaneous	1 2 1 1 80 80 80 240 2 240 941	ea ea ea ea lf lf sf sf	4,500.00 2,800.00 6,500.00 6,500.00 30.00 8.00 35.00 700.00 13.00 4.50 3.00	4,500 5,600 6,500 6,500 2,400 640 8,400 1,400 3,120 4,235 2,823		*85
23	HVAC HVAC, GENERALLY Equipment VRF Heat Pump VRF Branch Controller VRF 4-Way Cassette w/ Grill Kitchen Exhaust Fan KEF-1 Kitchen Makeup Air Fan, MAU-1 Sheet metal & Accessories Grease Duct, Welded Insulation, Fyre Wrap HVAC Piping Refrigerant Piping Refrigerant Piping with inline components Condensate Drain Piping Copper pipe type L with fittings & hangers Piping Insulation Piping insulation, Refrigerant Temperature Controls (DDC) Provide and connect new VRF controls to BMS Balancing System testing & balancing Miscellaneous Coordination & management	1 2 1 1 80 80 240 2 240	ea ea ea ea lf lf sf sf ls	4,500.00 2,800.00 6,500.00 6,500.00 30.00 8.00 35.00 700.00 4.50 3.00 8,000.00	4,500 5,600 6,500 6,500 2,400 640 8,400 1,400 3,120 4,235 2,823 8,000		*85
23	HVAC HVAC, GENERALLY Equipment VRF Heat Pump VRF Branch Controller VRF 4-Way Cassette w/ Grill Kitchen Exhaust Fan KEF-1 Kitchen Makeup Air Fan, MAU-1 Sheet metal & Accessories Grease Duct, Welded Insulation, Fyre Wrap HVAC Piping Refrigerant Piping Refrigerant Piping with inline components Condensate Drain Piping Copper pipe type L with fittings & hangers Piping Insulation Piping insulation, Refrigerant Temperature Controls (DDC) Provide and connect new VRF controls to BMS Balancing System testing & balancing Miscellaneous Coordination & management Coring, sleeves & fire stopping	1 2 1 1 80 80 80 240 2 240 941 941	ea ea ea ea lf lf sf sf ls ls	4,500.00 2,800.00 6,500.00 6,500.00 30.00 8.00 35.00 700.00 4.50 3.00 8,000.00 1,000.00	4,500 5,600 6,500 6,500 2,400 640 8,400 1,400 3,120 4,235 2,823 8,000 1,000		*85
23	HVAC HVAC, GENERALLY Equipment VRF Heat Pump VRF Branch Controller VRF 4-Way Cassette w/ Grill Kitchen Exhaust Fan KEF-1 Kitchen Makeup Air Fan, MAU-1 Sheet metal & Accessories Grease Duct, Welded Insulation, Fyre Wrap HVAC Piping Refrigerant Piping Refrigerant Piping with inline components Condensate Drain Piping Copper pipe type L with fittings & hangers Piping Insulation Piping insulation, Refrigerant Temperature Controls (DDC) Provide and connect new VRF controls to BMS Balancing System testing & balancing Miscellaneous Coordination & management Coring, sleeves & fire stopping Testing and sterilization	1 2 1 1 80 80 80 240 2 240 941 941 1 1	ea ea ea ea lf lf sf sf ls ls ls	4,500.00 2,800.00 6,500.00 6,500.00 30.00 8.00 35.00 700.00 4.50 3.00 8,000.00 1,000.00 600.00	4,500 5,600 6,500 6,500 2,400 640 8,400 1,400 3,120 4,235 2,823 8,000 1,000 600		*85
23	HVAC HVAC, GENERALLY Equipment VRF Heat Pump VRF Branch Controller VRF 4-Way Cassette w/ Grill Kitchen Exhaust Fan KEF-1 Kitchen Makeup Air Fan, MAU-1 Sheet metal & Accessories Grease Duct, Welded Insulation, Fyre Wrap HVAC Piping Refrigerant Piping Refrigerant Piping with inline components Condensate Drain Piping Copper pipe type L with fittings & hangers Piping Insulation Piping insulation, Refrigerant Temperature Controls (DDC) Provide and connect new VRF controls to BMS Balancing System testing & balancing Miscellaneous Coordination & management Coring, sleeves & fire stopping	1 2 1 1 80 80 80 240 2 240 941 941	ea ea ea ea lf lf sf sf ls ls	4,500.00 2,800.00 6,500.00 6,500.00 30.00 8.00 35.00 700.00 4.50 3.00 8,000.00 1,000.00	4,500 5,600 6,500 6,500 2,400 640 8,400 1,400 3,120 4,235 2,823 8,000 1,000	64,018	*85

Needham Senior Center Kitchen Reno 11.11.22 FINAL Page 9 PMC - Project Management Cost



Needham Senior Center Kitchen Renovations Needham, MA

11-Nov-22

DE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	CO
	enovation	1	i			I.	
	YAL, HVAC						\$
	26 ELECTRICAL						
	_	 "					
	Power: Modify and make connections at existing gear and distribution		le.	5 000 00	5,000		
	mounty and make connections at existing gear and distribution	1	ls	5,000.00	5,000		
	Equipment Wiring:						
	MAU feed and connections	1	ea	4,500.00	4,500		
	VRF/Heat pump feed and connections	1	ea	4,500.00	4,500		
	VRF/Cassette feed and connections	2	ea	1,200.00	2,400		
	DDC feed and connections	1	ea	500.00	500		
		_		9	5		
	Kitchen equipment Wiring:						
	Exhaust fan feed and connection	1	ea	1,500.00	1,500		
	Combi oven (Gas)	1	ea	1,000.00	1,000		
	Dishwasher feed and connection	2	ea	2,500.00	5,000		
	20A feed and connections	7	ea	1,000.00	7,000		
	Lighting:						
	New Kitchen lighting, installation and circuitry	941	sf	12.00	11,292		
	Lighting controls	941	sf	2.00	1,882		
	Branch devices and circuitry not depicted	941	sf	8.00	7,528		
	Fire Alarm:						
	Allow for modifications to existing FACP and testing	1	ls	2,500.00	2,500		
	Devices, modules and cabling	1	ls	2,500.00	2,500		
	Telecommunications (assumes ETR)				ETR		
	Security system (assumes ETR)]	ETR		
	Miscellaneous:						
	Demo and make safe	1	ls	3,500.00	3,500		
	Fees and permits	1	ls	800.00	800		
	SUBTOTAL	-		000.00	000	61,402	
						,	
TOT	TAL ELECTRICAL						\$
32 -	EARTHWORK						
	320000 EARTHWORK						
ě	Allowance to remove and reinstall soils for new grease trap		ls	4,000.00	4.000		
	•	1			4,000		
	Allowance for E&B at new sanitary	60	lf	50.00	3,000		
	Allowance for misc. disposal, dewatering, bedding and fill materials	1	ls	5,000.00	5,000		
	SUBTOTAL					12,000	
TOT	CAL - EARTHWORK						

Needham Senior Center Kitchen Reno 11.11.22 FINAL Page 10 PMC - Project Management Cost

SECTION FOUR

Engineering Feasibility Report

4.1 – MEP Feasibility report by BLW Engineers, Inc.



NEEDHAM CATH SPACE UTILIZATION STUDY



Needham Senior Center 300 Hillside Avenue Needham, MA

MEP Feasibility Study



Prepared For:

SOCTEC AE Consulting, LLC 250 Dorchester Avenue Boston, MA 02127

October 11, 2022





FIRE PROTECTION

Summary

The following is a report of the existing Fire Protection systems serving the CATH center kitchen based on 09.15.2022 site visit. The objective to determine feasibility of a kitchen renovation and upgrade.

Fire Protection Existing Conditions

Existing sprinkler grid in the kitchen.

Fire Protection Recommendations

Sprinkler heads & branch piping will be relocated as required for any modifications made to the walls and ceilings to ensure complete sprinkler head coverage for 100% of the renovated space.

End of Fire Protection Section

PLUMBING

Summary

The following is a report of the existing Plumbing systems serving the CATH center kitchen based on 09.15.2022 site visit. The objective to determine feasibility of a kitchen renovation and upgrade.

Plumbing Existing Conditions

Cold water service in basement. A central hot water heater system in basement supplies hot water to the entire building. Cold & Hot water distribution in the kitchen to the existing fixtures. Existing fixtures include three-compartment sink, prep sink, and hand sinks, & two commercial dishwashers. A grease interceptor installed in floor of kitchen. Sanitary connection to main below the floor. Vent piping from all fixtures above the ceiling. An ansul system and gas shut off valve to one range.

Plumbing Recommendations

Preliminary plumbing information for the proposed kitchen is estimated to have 1 ½" cold water feeding the kitchen space. Hot water requirement of 90 gallons per hour recovery. The space will require a 3" vent connection, a 4" sanitary connection to the sanitary in the building, and a 50-gpm grease interceptor for all grease waste fixtures (3 bay sinks, dish machines, prep sinks, floor drains).

End of Plumbing Section



MECHANICAL

Summary

The following is a report of the existing HVAC systems serving the CATH center kitchen based on 06.08.2022 site visit. The objective to determine feasibility of a kitchen renovation and upgrade

Mechanical Existing Conditions

The existing HVAC system serving the kitchen consists of the following components:

- Make up Air Unit
- Exhaust Fan
- Fan Coil Unit

The make-up air unit and the exhaust fan are located on the roof. The Fan coil unit is located in the plenum space above the acoustical ceiling tiles. There is one thermostat located in the kitchen. The FCU provides heating or cooling to the zone to satisfy the thermostat. The MAU and the fan serve the kitchen exhaust hood.

See below for the performance data of the existing units obtained from the original 01/04/2012 drawings.

Existing FCU	
Total Cooling Capacity (MBH)	20.3
Heating Capacity (MBH)	15
Manufacturer	Mitsubishi
Model	PEFY-P24NMAU-E

Existing Gas Fired Make Up Air Unit					
Total CFM	1200				
Outside Air CFM	1200				
MBH In/Out	150/120				
Manufacturer:	Greenheck				
Model:	IGX-109-H12				



Existing Kitchen Hood Exhaust Fan				
CFM	1200			
НР	3/4			
SP	1			
Manufacturer:	Greenheck			
Model:	CUB-141-7			

Mechanical Recommendations

Kitchen space shall be provided with heating and cooling by a variable refrigerant volume fan coil units interconnected to heat recovery type variable refrigerant volume heat pump. Each fan coil unit shall be a ceiling-mounted type unit. Each heat pump unit shall be interconnected to the several system fan coil units through an insulated refrigerant piping system and be able to provide simultaneous heating and cooling. A condensate drain piping system will also be required to transport condensate from each unit to storm drain or to the outdoors.

Fan coil units shall be controlled by a wall mounted programmable thermostat.

New kitchen grease hood shall be provided with welded steel grease ductwork, grease duct wrap and roof mounted exhaust fan. Make-up air shall be provided though hood PSP, insulated supply ductwork and roof mounted outdoor air ductwork. The make-up air shall be heated from 0-60 degrees F.

Cooking hood shown on Proposed Foodservice Layout, Appendix A is approximately 12 feet in length. At 300 cfm/lf of hood approximately 3600 cfm of grease exhaust (KE) is required.

End of Mechanical Section

ELECTRICAL

Summary

The following is a report of the existing Electrical systems serving the CATH center kitchen based on 06.08.2022 site visit. The objective to determine feasibility of a kitchen renovation and upgrade.

Electrical Existing Conditions

Electrical Distribution

The existing building's service is 800 Amp, 120/208 Volt, 3-phase, 4-wire. The service equipment consists of a 800 Amp main distribution switchboard containing internal breakers distributing power to lighting and power panels. The main panel also serves the normal side of a 400Amp automatic transfer switch. The emergency side is fed from a stand-by



exterior generator. The load side of the transfer switch feeds a stand-by panel SBP. There is a 150Amp/3-pole circuit breaker in SBP which serves the existing kitchen panel.

The kitchen is equipped with an existing 150Amp, 120/208V, 3-phse, 4-wire 42 pole panel. The panel has minimal spare physical capacity.

Condition: The general condition of the electrical equipment was observed to be in good condition.

Electrical distribution equipment and components are expected to have a useful life of 30 years. Switchboards, Panelboards, transformers, generators, and wiring systems are typically serviceable for 10 to 20 years beyond this time if properly maintained and not subjected to repeated overloading or short-circuiting conditions.

Capacity: The existing 800Amp service at 208V/3-phase equates to 288kW. From the bills provided the max demand is 85.6kW. This equates to approximately 237Amps or 30% of the overall service capacity.

Fire Alarm System

The facility is equipped with an addressable fire alarm system. The system is a Gamewell FCI E3 Series. The system appeared to be installed in accordance with NFPA 72 National Fire Alarm Code, Fire Protection and Life Safety Systems, ADA and Town of Needham Code and Bylaws for Life Safety and Fire Alarm



Existing Kitchen Panel



Stand-By Panel and ATS





Existing Fire Alarm Control Panel

Electrical Recommendations

Electrical Distribution

Preliminary electrical information for the proposed kitchen equipment is estimated to be an additional 65kW of connected load. The proposed renovation/addition will also require additional mechanical and plumbing (refer to mechanical and plumbing sections of report). The estimated load for this equipment is 75kW. These estimated loads equate to a connected load of 140 kW or 389 Amps at 208V/3-phase. Applying a demand factor of 65% for the Kitchen equipment (allowable demand per NEC) brings the estimated load to 117 kW (325Amps). Adding the proposed demand to the existing demand of 85.6 kW equates to a total building demand load of 202.6 kW or 563 Amps at 208V/3-phase. This would indicate that the existing electrical service is capable of serving the proposed estimated kitchen loads.

The kitchen shall be provided with estimated 400Amp, 208Volt, 3-phase service fed from the existing switchboard. Kitchen shall be provided with dedicated panelboards located within the space. The panels will service all mechanical, plumbing and kitchen equipment. The equipment under the hood shall be connected to shunt trip circuit breakers which will be shut down during the activation of the hood fire suppression system. The remainder of the kitchen equipment shall be connected to the kitchen panels. All 120V, 15A and 20A receptacles shall be Ground Fault Protected.

Fire Alarm

The existing fire alarm system shall be expanded utilizing addressable terminal cabinets and remote power supplies in the kitchen as required to provide code compliant coverage. Fire alarm devices shall include pull stations at exits, interconnection with the hood suppression system and audio/visual device for notification. Provide audio/visual notification device coverage throughout the facility that meets the requirements of NFPA and ADA. Utilize strobe only devices in public bathrooms and other small rooms where ample audible notification is present.

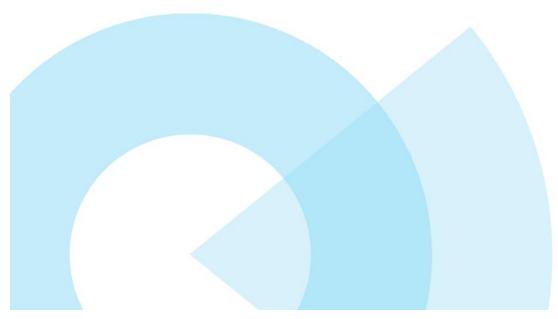


End of Electrical Section

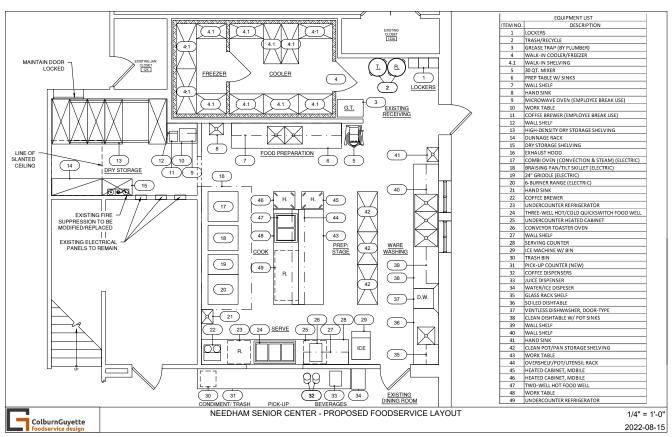
APPENDIX A

Proposed Foodservice Layout

by ColburnGuyette



NEEDHAM CATH SPACE UTILIZATION STUDY





APPENDIX I NEEDHAM CATH SPACE UTILIZATION STUDY QUESTIONNAIRE RESULTS

NEEDHAM CATH SPACE UTILIZATION STUDY SURVEY

The following question was posed to attendees at the space utilization study presentations:

Please share any information about the center you think would be helpful to this study. Are there any spaces, indoors or outdoors, that you think can be improved?

23 responses were received.

Reply 1:

The gym could be improved by dedicating more available space. The pool room space is underutilized and does not accommodate handicap members whereas the gym serves a very much larger population including the handicapped.

Reply 2:

Switch the pool room and the gym.

Reply 3:

Move access door in dining room to attached room (movie/music room) depletes temp. Front 1st floor main door needs handicapped access openers (already at bathrooms).

Reply 4:

Center is fine as is with me.

Reply 5:

More Parking!!! Leave kitchen clean after cooking lessons.

Reply 6:

The gym needs more space and extended hours.

Reply 7:

More free weights in gym, longer hours in gym, more space for gym.

Reply 8:

1. Switch game room & fitness room 2. No basement use.

Reply 9:

Computers should be spread around to another area because room is off limits when SHINE is in session. Perhaps 1 or 2 more in library.

Reply 10:

An upgraded computer system so clients can sign up for functions online.

Reply 11:

Keep it the way it is.

Reply 12:

1. No industrial kitchen – will lose the "hominess" it has now. 2. No kitchenette in pool room. It's for pool. 3. Gift shop could be bigger. 4. Roof is fine.

Reply 13:

No industrial kitchen needed. No changes needed. CATH is great as is.

Reply 14:

Bocce court would be great! Retractable awnings on roof deck.

Reply 15:

1. Deck needs shady areas. 2. Fitness Center needs more space. 3. Library seems underused – use that for something else? 4. Bathroom doors have signs to keep them open. But the doors will not stay open, no matter how they are caught on door stoppers.

Reply 16:

Make the fitness room larger. Have the van leave about 3:30pm instead of 2 or 2:30pm. Need more shelves for the library room. More hp parking spaces. Maybe 2 to 3 more.

Reply 17:

Provide shade for outside patio. Open on weekends. Very lonely on weekends. Limited parking.

Reply 18:

1. Bigger gym. 2. Cover the decks so it can be used in bad weather and in the colder seasons. 3. Make the lobby cozier. 4. Make the meals here. 5. Open fitness center at 8:30.

Reply 19:

Heat the space we have now. Do not shrink the deck.

Reply 20:

1. Add TV to pool room. Have events watching special shows, like Red Sox games. 2. More movies, events – not just Friday.

Reply 21:

Outside daily/weekly events board, front & back entrances. Keep a number of chairs outside year round – porch deck. 8 seat tables in lunch room. Large flag over front wall above reception area. Outside porch gathering area similar to Wellesley Center. Art room to have movie screen to use when downstairs movie room has a conflicting event. Lobby rug, comfortable chairs, welcoming living room – currently looks like a bus station waiting area.

Reply 22:

1. Fitness center needs more space. 2. Pool room could move into fitness room. 3. Portico on side of building needs a roof. 4. Put up building board listing daily activities.

Reply 23:

Unused space should be utilized for daily activities i.e. pool room could be moved to gym?



APPENDIX J GETTING BACK TO THE CENTER QUESTIONNAIRE RESULTS

APPENDIX

GETTING BACK TO THE CENTER QUESTIONNAIRE RESPONSES

		:	:		:	New December Supple Lynnight New Man
come to the Center to:	Pre-COVID I came to the Center	Since the onset of COVID I come to the Center			I would come to the Center more if	New Programs/Events I would like to see at the Center are
Be social, To Play Pool	Daily	Daily	I still come to the Center	stay the same	It were open on at least one evening each week.	· · · · · · · · · · · · · · · · · · ·
Never came SHINE Counselor	a didn't go to the Center Once a week	Never	Not interested COVID in general	have more in-person programs stay the same	I wasn't working	NIA .
Exercise Classes	Once a week	Never	COVID in general	stay the same	There was no Covid	Sandi Levy's back at Center
Be social, Bridge	A few times a week	Never	COVID in general	stay the same		
Exercise Classes	Only when there was a program I was interested in	Never	COVID in general	stay the same	Free computer help was offered	
Exercise Classes	Only when there was a program I was interested in	Never	Unsure of those who are vaccinated	have more cultural/educational programs	Proof of vaccination was mandated and people were wearing masks consistently and properly.	More zoom programming
Be social, Exercise Classes, SHINE/Tax Prep	Once a week	Never	COVID in general	have more fitness/exercise programs		
Exercise Classes, Fitness Room, Social Services	Once a week	Only when there is a program I am interested in	I still come to the Center	have more fitness/exercise programs	Omicron really was controlled in general.	Field trips for culture and sport.
Exercise Classes, Fitnesa Room	Once a week	Never	I don't really know anyone there	have more fitness/exercise programs		į
Fitness Room	A few times a week	A few times a week	COVID in general	stay the same	Once I have my surgery and I'm healed. Do not want any test to show positive before my appointed surgery.	
Current Events. Short Story Group	Once a week	Never	Unsure of those who are vaccinated	stay the same	Masks and immunizations were required	
Exercise Classes, SHINE/Tax Prep	Once a week	Never	COVID in general	have more fitness/exercise programs		More group fitness programs If I could play bridge with just my
Fitness Room	A few times a week	A few times a week	I still come to the Center COVID in general	have more fitness/exercise programs		friends. More zoom until COVID diminishes
Haven't gone yet	8 didn't go to the Center A few times a week	Name of the last o	COVID in general	have more cultural/educational programs	Assurance of others being vaccinated and wearing masks Covid wash't surping	History of art series, cultural or historical programs
Be social, Food, Speaker Presentations	A few times a week	Never	COVID in general	stay the same		
Exercise Classes, SHINE/Tax Prep	Once a week	Never	COVID in general	stay the same	Covid was not still raging. My husband and I do no indoor activities with other people.	:
Exercise Classes	A few times a week	Never	COVID in general	have more in-person programs	Covid diminishes	Friday movies
Be social, Exercise Classes, Speaker Presentations	A few times a week	Never	People aren't good about wearing masks	have more fitness/exercise programs		· ·
Exercise Classes, Speaker Presentations, volunteer at front desk	Only when there was a program I was interested in	Once a week	COVID in general	stay the same	could depend on everyone complying with the town masking mandate	No suggestions. Would like exercise programs to have the zoom option.
Fitness Room	Only when there was a program I was interested in	A few times a week	I still come to the Center	stay the same		
						invite attendees (current regulars and people new or potentially new to the Center) to share a unique skill or life
Be social, volunteer	Only when there was a program I was interested in	A few times a week	I still come to the Center	have more cultural/educational programs	did not have to wear a mask	story
Fitness Room	A few times a week	A few times a week	I still come to the Center	have more fitness/exercise programs		
Be social, Speaker Presentations	Only when there was a program I was interested in	Only when there is a program I am interested in	I still come to the Center	stay the same	Bled the Center as it was. The Covid has driven people away That is the fault of no one. I could be wrong but I think the old food service was a big attraction. The social programs are orippied by the Covid and necessary rules. We can't help it. So your best.	Have to think this out. Put up a suggestion box.
Exercise Classes	Once a week	Never	COVID in general	stay the same	Covid-19 is no longer a pandemic.	
Be social, Exercise Classes	A few times a week	Never	COVID in general	have more cultural/educational programs		Art appreciation/discussions
Be social, Exercise Classes, Speaker Presentations, SHINE/Tax Prep, Blood Pressure Clinic	Once a week	Never	Weather conditions	have more in-person programs	as soon as I get my taxes done	
Se social, Movies	Once a week	Only when there is a program I am interested in	I still come to the Center	have more musical programs	Movies on Friday	
Be social, Speaker Presentations	Only when there was a program I was interested in	Only when there is a program I am interested in	People aren't good about wearing masks	have more in-person programs		<u> </u>
L					Movie, Guest speakers (health/wellness), D. Garlick, update from the Housing Plan Work Group, Needham Business Asse	
Speaker Presentations, SHINE/Tax Prep, Computer Access / Library, Blood Pressure Clinic, Volo	3 didn't go to the Center	Only when there is a program I am interested in	I still come to the Center	have more in-person programs	flow are we attracting new businesses; how has COVID impacted businesses), Needham Exchange Club - what is their purpose/plans for 2022; Fire dept-importance of smoke detectors, carbon monoxide; update on Public Safety Bidg	Group Games ie Bingo
Exercise Classes	A few times a week	Never	COVID in general	stay the same		
Be social, Food, Fitness Room	A few times a week	A few times a week	i still come to the Center	have more musical programs	No change	Films I would like to see a mix of unperson &
Exercise Classes, Fitness Room, Social Services, Speaker Presentations	A few times a week	Never	COVID in general	have more cultural/educational programs	Covid retreats and/or people wear masks	Zoom
Be social, To Play Pool, Social Services	didn't go to the Center	Nierver	I don't really know anyone there	Stay the same	I don't know WHERE the center is located nor do I know anybody there.	
See Jessica Moss	Only when there was a program I was interested in	Never	COVID in general	have more cultural/educational programs	J	
Food, Fitness Room, Speaker Presentations, Keitling	A few times a week	A few times a week	i still come to the Center	have more musical programs	Fun programs, like movies , concerts	Piano playing
Se social, Volumbeer Fitness Room, Speaker Presentations, SHINE/Tax Prep	Only when there was a program I was interested in Only when there was a program I was interested in	Once a week	I still come to the Center COVID in general	have more in-person programs	when the risk of indoor gathering subsides.	
Be social, SHINE/Tax Prep, Computer Access / Library	A few times a week	A few times a week		have more cultural/educational programs		
Be social, Speaker Presentations	Daily	A few times a week		stay the same		
Be social, Speaker Presentations	Once a week	Never		have more cultural/educational programs	Covid and variants and	
Speaker Presentations	Only when there was a program I was interested in	Never	Prefer Zoom Programming	have more cultural/educational programs	Covid wasn't around	
Be social, Exercise Classes, Speaker Presentations, Computer Access / Library, Blood Pressure Clinic, to get away to a pleasant place	Daily	Only when there is a program I am interested in	I still come to the Center	have more cultural/educational programs	f i had free time and less responsibility	more elementary classes relating to computer and media technology.l
Exercise Classes, Speaker Presentations	Only when there was a program I was interested in	Never	Prefer Zoom Programming	stay the same	Waiting for Covid to retreat again	Drumming group.
Be social, Fitness Room, Open art studio	A few times a week	Only when there is a program I am interested in	COVID in general	have more cultural/educational programs		Multi cultural, multi lingual events, cooking classes
Be social, Play Bridge Be social, Food, Exercise Classes, Social Services, Speaker Presentations, SHINET/ax Prep. Computer Access / Library	A few times a week	A few times a week		have more in-person programs	People were better about wearing masks (which is better now with mask mandate)	mid-morning art activities, more <300
	Duity	A few times a week	I still come to the Center	have more cultural/educational programs	Sr. Corps volunteer opps were available	mid-morning art activities, more <300 pc puzzles for a group, to put together
Exercise Classes	A few times a week	Never		stay the same		
Be social, Food, Exercise Classes, Fitness Room, Social Services	A few times a week	Only when there is a program I am interested in		have more fitness/exercise programs	t required proof of vaccination and boosters.	yoga classes
Exercise Classes, Speaker Presentations, Pre-pendemic: programs such as Ron Greenwelf's programs and Current Events	Only when there was a program I was interested in Only when there was a program I was interested in	Never Columbration there is a neverant I am interested in		have more fitness/exercise programs have more cultural/educational programs	I felt it was concerned about the health of the attendees.	
Exercise Classes, Fitness Room, Speaker Presentations, SHINE/Tax Prep, Meetings	A few times a week	Only when there is a program I am interested in Only when there is a program I am interested in			Covid disappears	
Be social, volunteer	Once a week	Once a week		stay the same	Cover asseptions there was something I was interested in	classes
Be social, votariater Be social, Exercise Classes, Fitness Room	Only when there was a program I was interested in	Only when there is a program I am interested in		have more in-person programs		
Be social	A few times a week	Never		have more cultural/educational programs	Ennew everyone was vaccinated and wore good masks (such as NBS masks). Covid infections in the elderly are high risk and I don't understand why we don't have any assurance that Center is as risk-free as possible.	
Be social	Only when there was a program I was interested in	Only when there is a program I am interested in		have more cultural/educational programs		
Exercise Classes, Speaker Presentations, Marjong	Only when there was a program I was interested in	Never	COVID in general	have more fitness/exercise programs	COVID was over	Book club
Speaker Presentations	Once a week	Never	COVID in general	have more cultural/educational programs		
Be social, Exercise Classes, Fitness Room, Speaker Presentations	A few times a week	A few times a week	Il don't have transportation	have more fitness/exercise programs	Transportation is my biggest problem. Vans are not always available.	ļ
Zoom programs	Only when there was a program I was interested in	Only when there is a program I am interested in		stay the same		History and health lectures,
Be social, Speaker Presentations	Only when there was a program I was interested in	Only when there is a program I am interested in	COVID in general		When Covid #k drop	documentaries, popular movies
Crasses	Only when there was a program I was interested in	Never		have more in-person programs	COVID numbers go down	I was enjoying canasta class before COVID shut down the Center.
Classes Bridge Be social Supplier Classes Speaker Reportations	Orly when there was a program I was interested in A few times a week	Nover Nover	COVID in general	stay the same	Statt safe from govid	You guys offer so very much. It would
Be social Exercise Classes, Speaker Presentations	Only when there was a program I was interested in few times a week. City when there was a program I was interested in	Never Secret	COVID in general Unsure of those who are vaccinated	stay the same have more cultural/educational programs	The safe from cosid COVID takes a downtum and falls will be there.	
Be social, Exercise Classes, Speaker Presentations Be social, Speaker Presentations, SHINE/Tax Prep	Drity when there was a program I was interested in A few times a week. Crity when them was a program I was interested in A few times a week.	Newtr Newtr Newtr	COVID in general Uniouse of those who are vaccinated People aren't good about wearing masks	stay the same have more cultural/educational programs have more cultural/educational programs	Statt safe from govid	You guys offer so very much. It would
Be social Exercise Classes Speaker Presentations Be social Speaker Presentations, SHINETEX Prep Fitness Room, Speaker Presentations, SHINETEX Prep	Dry when there was a program I was interested by & few times a week Dry when there was a program I was interested in A few times a week & few times a week	Nover Nover	COVID in general Unious of those who are vaccinated. People aren't good about weeing masks self-come to the Center	stay the same have more cultural/educational programs have more cultural/educational programs have more Stress/exercise programs	the latel form contif COSCO below, of demotion and faiths will be filters. could four relatively and supporting COSCO. Too many table are this created about the right way to behave.	You guys offer so very much. It would
Be social, Exercise Classes, Speaker Presentations Be social, Speaker Presentations, SHINE/Tax Prep	Drity when there was a program I was interested in A few times a week. Crity when them was a program I was interested in A few times a week.	Never Secret Never Never Never Accord Never A Secretions a week	COVID in general Unious of those who are vaccinated. People aren't good about weeing masks self-come to the Center	stay the same have more cultural/educational programs have more cultural/educational programs	The safe from cosid COVID takes a downtum and falls will be there.	You guys offer so very much. It would
Be social, Exercise Classes, Speaker Presentations, Be social, Speaker Presentations, SHMETER Prep Classes Room, Speaker Presentations, SHMETER Prep Stress Room, Speaker Presentations, SHMETER Prep	Duly when there was a program I was interested in A few forms a week. City when these was a program I was interested in A few forms a week. A few forms a week. A few forms a week. Only when these was a program I was interested in	Never Secret Never Never Never Accord Never A Secretions a week	COVID in general cross of those who are vaciohaled Propie aren't good about wearing masks still come to the Center Profee Zoon Programming COVID in general	stay the same have more culturaliseducational programs, have more culturaliseducational programs have more flowarisearche programs have more culturaliseducational programs have more culturaliseducational programs	ted with from contil COOD bases of contrain and fishs will be them. code fish individually safe regarding COVID. Too many fishs are the cassal about the right way to behave. code were recordable and even masks	You guys offer so very much. It would be deficult to set any more programs.
Ba social, Courtine Classes, Rjeader Presentations Ba social, Social Presentations, Self-Year Prep Transa From Spotter Presentations, Self-Year Prep Transa From Spotter Presentations, Self-Year Prep Secult Food, Spotter Prep Secul	Doly when there was a program I was interested in Alex Oreas a week. Dry when there was a program I was interested in . A to Grea a week. A to Grea a week. A to Grea a program I was interested in . Doly when there was a program I was interested in . Doly when there was a program I was interested in .	Never Secret Never Never Never Accord Never A Secretions a week	COVID in general Character of thorse who are vaccinated Proprie arm (soot short weeting meabs all comes in the Center Apple Apple Propries COVID in general Seather conditions.	stay the same have more coharathehoodional programs have more culturalizeducational programs have more clineational crise programs have more culturalizeducational programs have more culturalizeducational programs have more acturalizeducational programs have more acturalizeducational	ted with from contil COOD bases of contrain and fishs will be them. code fish individually safe regarding COVID. Too many fishs are the cassal about the right way to behave. code were recordable and even masks	You guys offer so very much. It would get affect it said any more programs.
By social Special Classes, Special Presentation By social Special Presentations, SHINCTIA Prop Filmess Row, Special Presentations, SHINCTIA Prop Filmess Row, Special Presentations, SHINCTIA Prop Second Presentations, Special Presentations, Stood Presence Citic Man amend entitle and body group was the , I although away one. Special Presentations.	Dily when there was a program I was interested in A first time a seek. Dily when there was a program I was interested in A first time a seek. Dily when time a seek.	Security	COVID in general Character of thorse who are vaccinated Proprie arm (soot short weeting meabs all comes in the Center Apple Apple Propries COVID in general Seather conditions.	stay the same have more culturalished control programs, have more culturalished control programs, have more culturalished control programs, have more culturalished controls programs.	tel ande Toron contide OCOCIO Selece, of deservation and below all the Toron. Control Selece of Control and Selece of Control Selece of	You guys offer so very much, it would not offered to add only more programm.
By social Special Classes, Special Presentation By social Special Presentations, SHINCTIA Prop Filmess Row, Special Presentations, SHINCTIA Prop Filmess Row, Special Presentations, SHINCTIA Prop Second Presentations, Special Presentations, Stood Presence Citic Man amend entitle and body group was the , I although away one. Special Presentations.	Dily when there was a program I was interested in A first time a seek. Dily when there was a program I was interested in A first time a seek. Dily when time a seek.	Security	COVID in powerá Tames of fixes who are vaccinaled Pedid acres to the Carrier marks and come to the Carrier Peder Zoon Programming COVID in powerá Resident conditions Peder acretí pod dout westro marks Peder acretí pod dout westro marks	stay the same have more culturalished control programs, have more culturalished control programs, have more culturalished control programs, have more culturalished controls programs.	tel ande Toron contide OCOCIO Selece, of deservation and below all the Toron. Control Selece of Control and Selece of Control Selece of	You guys offer so very much. It would be difficult to add any more programs.
The social Sources Common Symmetry Proceedings of the Social Soci	Dily when there was a program I was interested in A first time a seek. Dily when there was a program I was interested in A first time a seek. Dily when time a seek.	West West State Control of the Contr	COVID in powerá Tames of fixes who are vaccinaled Pedid acres to the Carrier marks and come to the Carrier Peder Zoon Programming COVID in powerá Resident conditions Peder acretí pod dout westro marks Peder acretí pod dout westro marks	day the same have more cultivalinated and programs have more cultivalinated programs have more cultivalinated programs have more cultivalinated programs have more included programs have more cultivalinated programs have more cultivalinated programs have more cultivalinated programs have more cultivalinated programs have more Stresslevericke programs	tel ande Toron contide OCOCIO Selece, of deservation and below all the Toron. Control Selece of Control and Selece of Control Selece of	The guys offer so very moch it would be differed in a difference in a di
The social Sources Common Symmetry Proceedings of the Social Soci	Dily when there was a program I was interested in A first time a seek. Dily when there was a program I was interested in A first time a seek. Dily when time a seek.	West West State Control of the Contr	CONSO III, percentii Climan II, finam that an enciclosiste Percela word good deal service peaks and corne In the Center Perkel word good deal service peaks Conso III and Center Conso III and Cen	day the same have more cultivalinated and programs have more cultivalinated programs have more cultivalinated programs have more cultivalinated programs have more included programs have more cultivalinated programs have more cultivalinated programs have more cultivalinated programs have more cultivalinated programs have more Stresslevericke programs	tel ande Toron contide OCOCIO Selece, of deservation and below all the Toron. Control Selece of Control and Selece of Control Selece of	You guys offer so very much, it would not offered to add only more programm.
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GETTING BACK TO THE CENTER QUESTIONNAIRE RESPONSES

APPENDIX

Exercise classes remotely since the pandemic. I don't come in.	Only when there was a program I was interested in	Never	Prefer Zoom Programming	stay the same	Corlid was over	
Play contract bridge	Once a week	Never	COVID in general	stay the same	N05 masks and vaccinations were required.	
Be social, SHINE/Tax Prep. Play canasta	Once a week	Once a week	3 still come to the Center	have more musical programs		
Be social	Daily	A few times a week	still come to the Center	have more in-person programs	Have more in person current events.	Movies
Exercise Classes, Trips, Chair yoga not zoorni	Once a week	Never	Not interested	have more fitness/exercise programs	Have in person exercise programs esp chair yoga	
						anything in-person - unfortunately, fear of this virus is going to continue for a
Be social	I didn't go to the Center	A few times a week	3 still come to the Center	have more in-person programs	There were more in-person programs.	swhile longer.
Be social, Food, Speaker Presentations, Blood Pressure Clinic Exercise Classes	Only when there was a program I was interested in Once a week	-Never	3COVID in general Not interested	have more cultural/educational programs	Covi diminished. A reasolated of my building caught COVID from visiting the Center. In person zumba gold classes	Mostly on Zoom.
Exercise Classes Be social, Exercise Classes, SHINE/Tax Prep, Blood Pressure Clinic	A few times a week	Once a week	COVID in general	stay the same	in person surrou goet dissess. I am planning to come to the Center more once the COVID situation has improved, i.e. once life is more normal again, onc the COVID situation has improved, i.e. once life is more normal again.	*
Filmess Room, Speaker Presentations, Movies, musical programs	A few times a week	Naver	COVID in general	stay the same	People had to show proof of vaccination and were required to wear a mask.	
Be social, Fitness Room, Speaker Presentations	A few times a week	Named	COVID in general	have more cultural/educational programs		10
Be social	Once a week	Never	COVID in general	stay the same	Vaccination mandates	Whist playing, cribbage
Exercise Classes, Speaker Presentations	A few times a week	Never	Prefer Zoom Programming	there more fitness/exercise programs	everyone was marked at the present time	
Be social, Social Services, Speaker Presentations, bridge , garden club, Kell's Crafts	Only when there was a program I was interested in	Only when there is a program I am interested in	Unsure of those who are vaccinated	have more cultural/educational programs		day trips not just shopping, could include theater
play bridge and volunterr oil shop	A few times a week	A few times a week	People aren't good about wearing masks	have more in-person programs		
Be social, Exercise Classes, Fitness Room, Social Services, SHINE/Tax Prep	A few times a week	A few times a week	I still come to the Center	have more in-person programs	More people came.	
Be social, Speaker Presentations	Only when there was a program I was interested in	Never	Prefer Zoom Programming	stay the same	things were pre-covid-hate masks and feel uncomfortable in a group setting	not sure with covid at this point.
Be social, Fitness Room, SHINE/Tax Prep. Computer Access / Library	Daily	Duily	I still come to the Center	have more cultural/educational programs	there was no covid and if I was not able to take classes via zoom	Bravelogues, more Informational/educational programs
Exercise Classes, Speaker Presentations	A few times a week	Never	Il don't have transportation	theve more musical programs	Zoom is much easier for me as I have ALS and can no longer drive. I do miss going to the Center.	
Be social, To Play Pool, Blood Pressure Clinic	Dely	Daily	3 still come to the Center	have more fitness/exercise programs		
Exercise Classes, Fitness Room, Speaker Presentations	A few times a week	Only when there is a program I am interested in	I don't really know anyone there	have more cultural/educational programs		
Be social, Exercise Classes, Social Services, Speaker Presentations	A few times a week	Only when there is a program I am interested in	Unsure of those who are vaccinated	have more cultural/educational programs		
Be social, Fitness Room, Speaker Presentations Be social, Food, Speaker Presentations, Computer Access / Library, Blood Pressure	Delly	A few times a week	COVID in general	have more cultural/educational programs	I was clear that all present are fully vaccinated. Now I am unsure.	Presentations on travel expeeriences
Clinic	A few times a week	Never	COVID in general	have more cultural/educational programs	I did not fear catchin Covid as happened to another resident in my apartment house	
Be social	A few times a week	A few times a week	still come to the Center	stay the same		upen weekends would really like to see a yoga or
1						would really like to see a yoga or exercise class that addresses asseoporosis since there are many positions and exercises in regular classes that aren't appropriate for number or extenderosis
Exercise Classes, Speaker Presentations	Only when there was a program I was interested in	Never	COVID in general	theve more fitness/exercise programs		gositions and exercises in regular classes that aren't appropriate for gosple w osteoporosis
Be social, Exercise Classes, Speaker Presentations	A few times a week	Once a week	3 still come to the Center	have more in-person programs		
Be social, Social Services, Speaker Presentations, SHINE/Tax Prep.	Only when there was a program I was interested in	Never	3 don't really know anyone there	stay the same	in person programs, not zoom.	cooking.
Se social, Speaker Presentations	Only when there was a program I was interested in	Only when there is a program I am interested in	COVID in general	stay the same		More cooking classes
Speaker Presentations	A few times a week	Only when there is a program I am interested in	COVID in general	have more cultural/educational programs	l felt safer.	3. ectures from folios in the arts who can share their experiences.
Be social, Exercise Classes, Speaker Presentations, SHINE/Tax Prep.	A few times a week	Never	COVID in general	have more in-person programs	Current events group or yogs were there	
Speaker Presentations, Line Dance classes	Once a week	Never	I don't really know anyone there	have more fitness/exercise programs		More civics and how government
Be social Exercise Classes, Fitness Room, Speaker Presentations	A few times a week	Only when there is a program I am interested in	Weather conditions	stay the same	If the Covid-19's is not an issue and weather is good	Sagencies work Pre pandemic programming was just
Current Events	Only when there was a program I was interested in	Never	People aren't good about wearing masks	have more in-person programs	All wear masks and establish vaccinated once in office. No proof, not allowed to enter.	Sine
Only for zoom meetings.	I didn't go to the Center	Never	Prefer Zoom Programming	stay the same	Never, I don't live in Needham.	Continue zoom meetings
Be social, Exercise Classes, Fitness Room, Speaker Presentations, SHINE/Tax Prep	A few times a week	Only when there is a program I am interested in	I still come to the Center	stay the same	l did not need to wear a mask. I have trouble breathing in a N95 mask.	
Be social, Blood Pressure Clinic	Daily	A few times a week	Unsure of those who are vaccinated	stay the same		In person current events with social distancing
Be social, Current Events	Daily	A few times a week	3 still come to the Center	have more in-person programs		distancing
Exercise Classes, Play Bridge	Once a week	Once a week	Prefer Zoom Programming	stay the same	Couldn't exercise with Pead online.	
Ourrent Events	Only when there was a program I was interested in	ENever End	COVID in general	stay the same		
Se social, SHINE/Tax Prep	L		3 still come to the Center	stay the same	There was head	
	Daily	Daily				
	6 four times a week	noa.	1			
Be social Food To Play Pool, Computer Access / Library	A few times a week	Daily	still come to the Center	stay the same	MOne people	· · · · · · · · · · · · · · · · · · ·
Be social, To Play Pool Re social, To Play Pool Re social Fine Fuerise Classes Filmess Rosen To Play Pool Sneaker Presentations	A few times a week Daily	Daily Daily	still come to the Center 3 still come to the Center	stay the same		
Be social, To Play Pool Be social, Food, Exercise Classes, Fitness Room, To Play Pool, Speaker Presentations, Computer Access I Library Be social, Food, Speaker Presentations, Blood Pressure Clinic, Creative writing, current	Shaly Shaly	Oally Oally Oally	still come to the Center still come to the Center	stay the same stay the same here more musical programs		
Be social, To Play Pool Be social, To Play Pool Be social, Foot, Exercise Classes, Filmess Room, To Play Pool, Speaker Presentations, Company, Access, Library Be social, Food, Speaker Plearntations, Blood Pleasure Clinic, Creative writing, current certifies, Art death, Judical Export, Moral Control, Art	A feer times a week Douby Body A feer times a week A feer times a week	Daily	self come to the Center self come to the Center self come to the Center COVID in general	stay the same		
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Be social, To Play Pool Be social, To Play Pool Be social, Foot, Exercise Classes, Filmess Room, To Play Pool, Speaker Presentations, Company, Access, Library Be social, Food, Speaker Plearntations, Blood Pleasure Clinic, Creative writing, current certifies, Art death, Judical Export, Moral Control, Art	Daily Daily 5. few times a week	Cody Cody A few times a week	self come to the Center self come to the Center self come to the Center COVID in general	day the same day the same have more mustical programs day the same		Angelina
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In second, 17 key Park Second Food, Service Cases, Frees Rose, To Pay Pool, Speaker Presentation, Compliant Association, Second Food, Compliant Association, Second Food, Compliant Association, Second Food, Compliant Association, Second Food, Second Fo	Daily Daily A har firms a wank And for firms a wank Daily Daily Daily And firms a wank And firms a wank And firms a wank And firms a wank	Sealy Sealy A has from a awais A fee from a awais Only Sealy Sealy Sealy Sealy Sealy Sealy A fee from a awais	and come to the Center and come to the Center and come to the Center COVID to person and come to the Center COVID to person and come to the Center And Cent	only the same for the same shows more modeled programs day the same shows more modeled programs does more modeled programs does more modeled programs does more modeled programs does more modeled programs and more showled programs and more showled programs bear more showled programs		Andrina
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APPENDIX

GETTING BACK TO THE CENTER QUESTIONNAIRE RESPONSES

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SHNE/Tax Prep, Shredding	I didn't go to the Center	Only when there is a program I am interested in	I still come to the Center	stay the same	······································	More strenuous exercise programs
Fitness Room, Speaker Presentations	Only when there was a program I was interested in	Never	People aren't good about wearing masks	have more cultural/educational programs	Everyone in the Strees center, including the instructors, wore masks and it was better ventilated.	Cartooning class - we need more Baughter in our lives. Perhaps taught by Bob Larson?
Be social, Exercise Classes, Fitness Room, Speaker Presentations	Daily	Daily	I still come to the Center	stay the same		
Be social, Food, Social Services, SHINE/Tax Prep, Computer Access / Library	Daily	A few times a week	I still come to the Center	have more in-person programs	I didn't have to work	
Exercise Classes, Speaker Presentations, Volunteer at gift shop	Once a week	Once a week	Prefer Zoom Programming	stay the same		whatever the wonderful staff chooses.
Be social, Speaker Presentations, Computer Access / Library	A few times a week	Once a week	Prefer Zoom Programming	stay the same		
Be social, Food, Social Services, Speaker Presentations, Computer Access / Library	Daily	A few times a week	Prefer Zoom Programming	stay the same		
Be social, Food, Exercise Classes, To Play Pool, Speaker Presentations, Computer Access / Library	A few times a week	A few times a week	I still come to the Center	stay the same	movies were back	
Be social, Food, Exercise Classes, Fitness Room, To Play Pool, Speaker Presentations	Daily	Daily	I still come to the Center	have more musical programs		movies, historical lectures, cash prize bingo
Be social, Food, Speaker Presentations, SHINE/Tax Prep	A few times a week	A few times a week	Unsure of those who are vaccinated	have more musical programs	I didn't have to wear a mask	
Be social, Exercise Classes, Fitness Room, Social Services, Speaker Presentations, SHINE/Tex Prep	A few times a week	A few times a week	I don't have transportation	have more cultural/educational programs		more trips
Fitness Room, To Play Pool	A few times a week	A few times a week	Prefer Zoom Programming	stay the same		

