

Newton Center for Active Living

Bargmann Hendrie + Archetype, Inc.
May 7, 2019

Our 20 Minute Agenda

1. **Who:** **BH+A Cliff Notes**

2. **What:** **Design Considerations**

Understanding your program and intentions

3. **Where:** **Site Analysis**

Locational analysis & Test Fits

4. **When:** **Implementation**

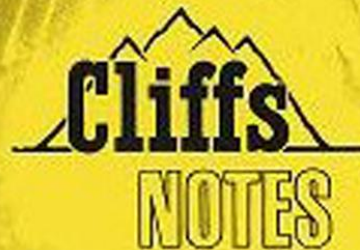
How do you control the cost and how long will it take

5. **Why:** **Active Living “Aging in Place”**

Common good serving individual needs

CLIFFS NOTES on

**Bargmann Hendrie + Archetype
(BH+A)**



Expertise:



Senior Centers



Youth Centers



Intergenerational
Centers



Recreation
Departments



Mixed-Use
Campuses

Boston Based
30 Years
40 Staff
18 Registered
WBE

120 Massachusetts Chapter 149 & CM-at-Risk Public Projects

Acton
Amesbury
Amherst
Andover
Attleboro
Belmont
Boston
Boxford
Braintree
Brookline
Cambridge
Chatham
Chelmsford
Chelsea
Chester
Chicopee
Clinton
Concord
Douglas
Eastham

Everett
Falmouth
Framingham
Gardner
Gloucester
Grafton
Granby
Hamilton
Hingham
Holden
Hyannis
Lexington
Lincoln
Lowell
Lawrence
Mashpee
Marshfield
Manchester-by-the-Sea
Needham
Newton

North Andover
Plymouth
Provincetown
Randolph
Salem
Scituate
Sharon
Somerville
Springfield
Sudbury
Waltham
Wellfleet
Wellesley
Weston
West Springfield
Westfield
Westwood
Weymouth
Winchester
Worcester

Over 30 Community Centers (many incorporating seniors)

Allied Veterans Memorial Ice Rink

Andover Community Youth Center

Beth Pancoe Community Pool

Bluemont Community Center

Chatham Community Center

Concord City-wide Community Center

Danny's Place Youth Center

Falmouth Aquatic Center & Ice Rink

Gertrude Ederle Community Rec Center

Greater Burlington Rec/YMCA, joint facility

Hollis Street Community Center

Hyannis Youth & Community Center

Joseph N. Hermann Youth Center

Kennebunk Community Center

Kittery Community Center

Lucketts Community Center

Malta Community Center

Maple Street Community Pool

Marshfield Boys & Girls Club

Marshfield Community & Senior Center

Mashpee Community & Senior Center Study

Milford Youth Center

Old East Suffolk Community Center

Orangetown Community Center

Passamaquoddy Tribe Community Center

PFD Curley Community Center

PFD Hyde Park Community Center

PFD Shelburne Community Center

Sharon Community & Senior Center

Smith Aquatic & Community Center

Squamscott Community & Senior Center

Squamscott Community Commons

Standish Community Center

The Swimming Hole Community Pool

Vine Street Community Center

Winchester Teen Center

Wiscasset Community & Senior Center

Wiscasset Community Center

Worcester Boys & Girls Club

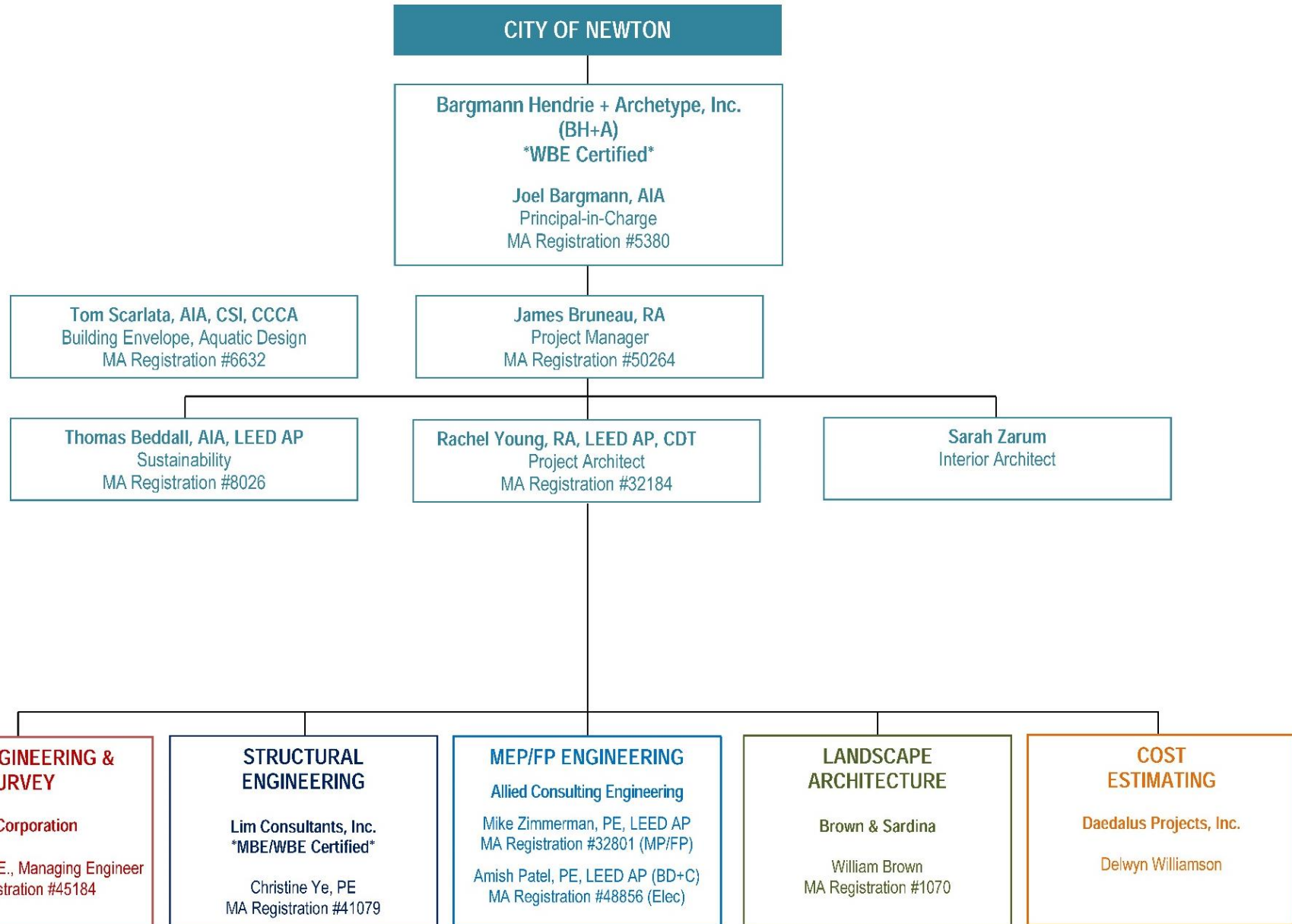


Senior Center Experience

Andover Senior Center
Belmont Senior Center
Chatham Senior Center
Chester Senior Center
Cohasset Senior Center
Falmouth Senior Center
Frank J. Manning, Cambridge,
Needham Center at the Heights
Norton Senior Center
Scituate Senior Center
Muzzey Senior Center, Lexington
Sudbury Senior Center



Organization Chart



Full Range of Services for NewCAL

Basic Services

Architecture
Interior Design
Environmental Consulting
Structural Engineering
Landscape Architecture
Fire Protection Engineering
Plumbing Engineering
HVAC Engineering
Electrical Engineering
Lighting Design
Energy Modelling
Data Communications Consultant
Sustainable Design Consultant
Cost Estimating
Accessibility Consultant
Code Consulting
Security Consultant
Acoustical Consultant
Audio Visual Consultant
Food Service (Kitchen) Consultant

As Necessary Services

Geotechnical Engineering
Site Survey
Archeological Survey
Geo-Environmental
Hazardous Materials
Traffic Engineering
Furniture, Fixtures & Equipment
Project Management Website
LEED or other Certification Fees
Commissioning Agent
Building Operational Cost Analysis
Staffing Operational Analysis
Revenue and Expense Analysis



“5 Pillars” of Design



Volunteering

Assistance with food, nutrition, recreation, culture, transportation & social service becomes a “feeder system” for CAL



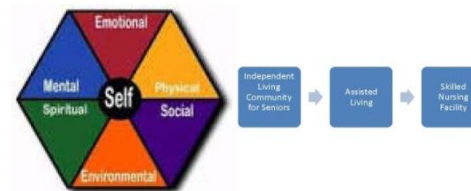
Lifelong Learning & the Arts

Focus on intellectual stimulation, learning, personal growth and enhanced quality of life



Wellness Center

Focus on healthy aging/active living for different senior age groups



Information Dissemination

Information and service delivery to help Newton residents remain independent;



Socialization

Café & Lobby opportunities for social interaction

How we would work with Newton

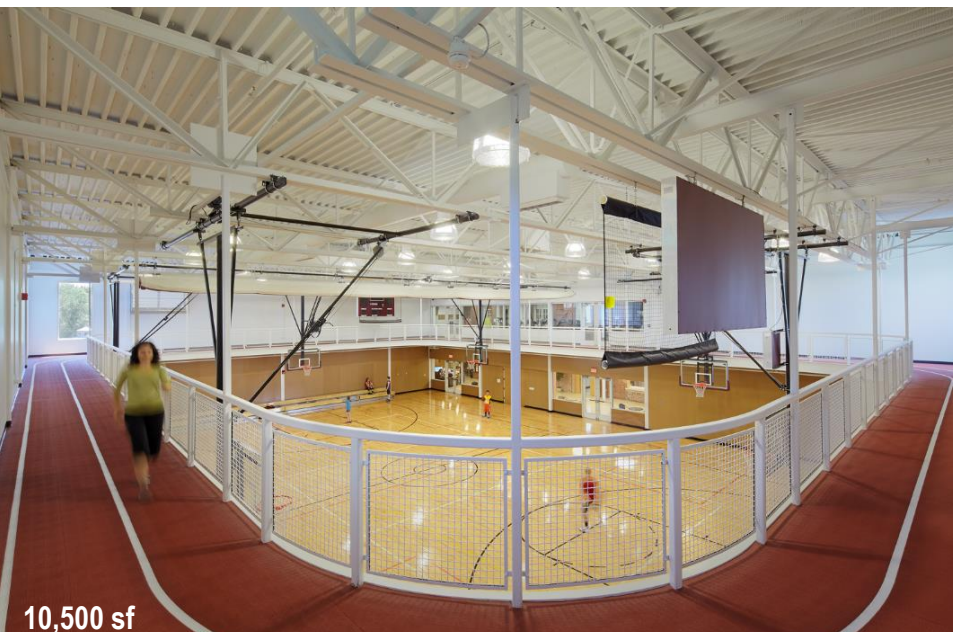
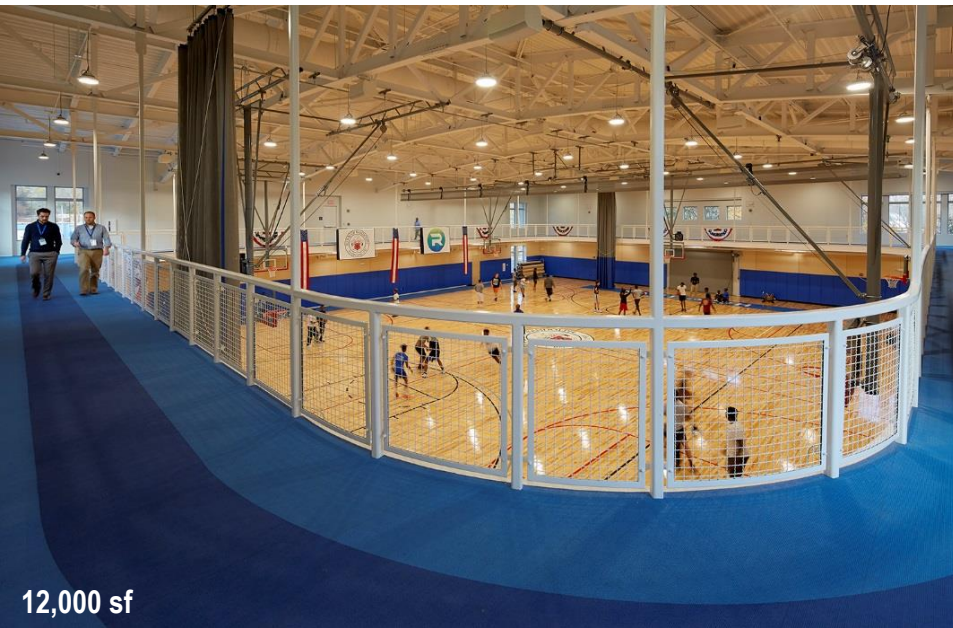
Understanding your program intent and avoiding preconceptions, considerations, site impacts



Sharing Multi-Use Gyms



Program Understanding: Gym & Track Areas



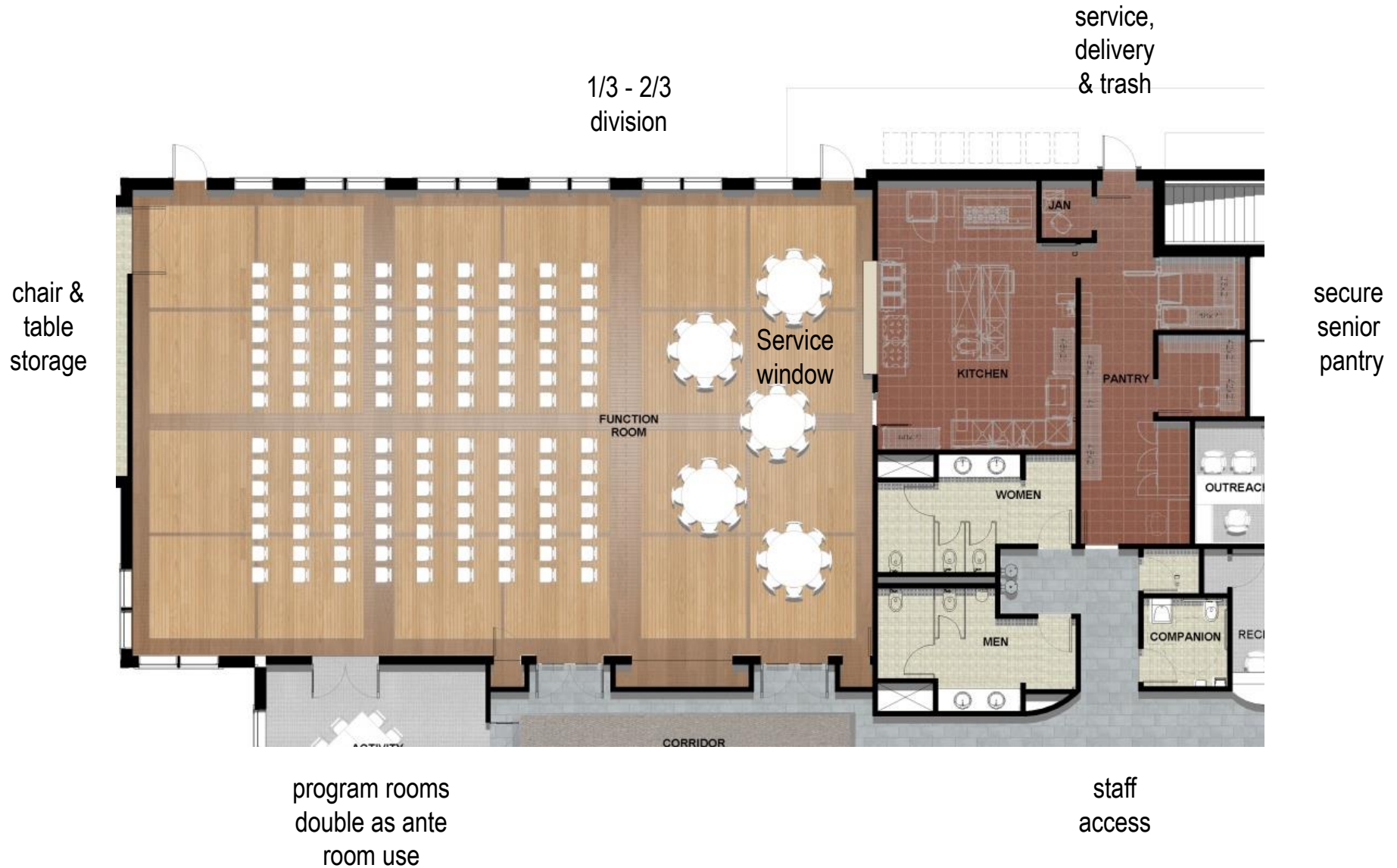
Program Understanding: Kitchen Size and Use



Program Refinement: Kitchen



Program Understanding: Intergenerational Kitchens & MPR's



Program Refinement: Multipurpose Room



The Evolving Multi-Purpose Room



Multi-Purpose / Multi-Use



A general multi-purpose room used for children's play space, dance, aerobics, lunches, family rentals and even winter farmer's markets becomes a theater at night



Multi-Purpose / Multi-use



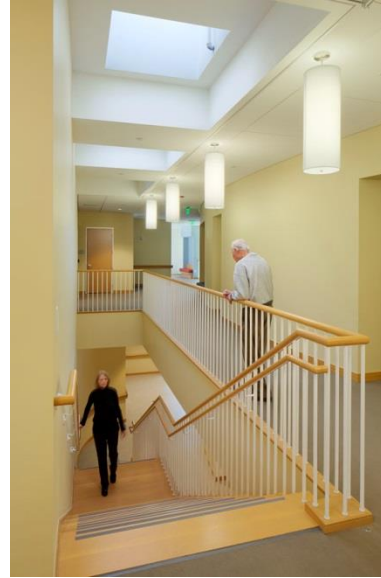
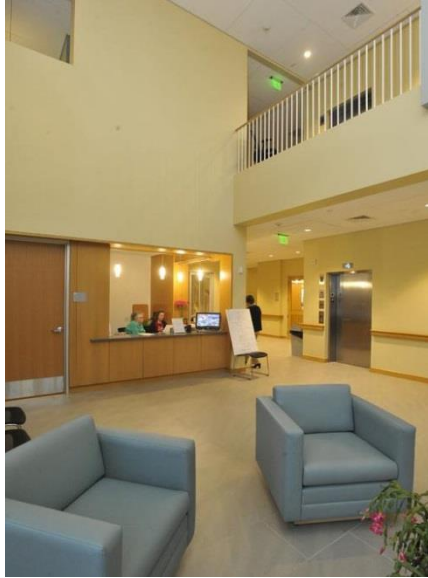
Lobby – Intergenerational Considerations



Creating a Balance



Age-Friendly Details



Areas for rest, subtle hand rail designs, wainscot, wide circulation space, convenient stairs

Flexibility & Transparency



Understand “What is Being Requested”



SIGN UP FOR NOVEMBER/DECEMBER programs and classes will begin Thursday, October 26. We cannot accept telephone or written requests prior to 9:00 a.m. on October 26. With the exception of drop-in programs, we ask that everyone sign up in advance for our programs and events. We also ask that everyone arrive on time when entering The Center, whether here for a drop-in or scheduled program. If you do not have a waiver tag, please ask for one at the Front Desk.

MUSIC AT THE CENTER
Advanced sign-up is required for all the musical events by calling 781-455-7555 or stopping by the Front Desk.

VETERANS DAY CONCERT
NEEDHAM ELEMENTARY HONORS CHORUS
WEDNESDAY, NOVEMBER 8TH • 3:00 P.M.

The Needham Elementary Honors Chorus is an ensemble of auditioned 4th & 5th graders from all five of Needham's elementary schools.

THE NOTABLES
WEDNESDAY, NOVEMBER 15 • 2:00 – 3:00 P.M.

The Notables are a women's a cappella group made up of singers from suburban communities south and west of Boston.

Thanks to the generous support of Redford Music Club of Needham, there is no charge for this program.

THE NEWTON SWING BAND
WEDNESDAY, DECEMBER 6TH • 1:30 – 3:00 P.M.

Remember "Sunny Side of the Street," "I'll Wear a Rich Man," "Jersey Bounce," "Side By Side," "The Snake of Anahy," and "Ain't She Sweet"? These are just a few of many songs for you to listen, tap your feet, clap your hands, and sing along! There may be a few serious songs, as well.

ARONS FAMILY LIDLOU SPECTACULAR
THURSDAY, DECEMBER 14 • 2:00 – 3:00 P.M.

The Arons, a mother-daughter duo, will perform classic holiday favorites. Join us as these new entertainers perform toe tapping tunes at the CATH.

Thanks to the generous support from ConForCare, there is no charge for this program.

NEEDHAM RETIRED MEN'S GLEE CLUB
FRIDAY, DECEMBER 15 • 2:00 – 3:00 P.M.

The Glee Club will perform Broadway hits, folk songs, spirituals, sing-a-longs and more!

Thanks to the generous support of Redford Music Club of Needham, there is no charge for this program.

HOLIDAY SOCIAL
WEDNESDAY, DECEMBER 20TH • 4:00 – 5:30 P.M.

Join us for an afternoon of music, games, singing, and enjoying each others company. Judy Kaplan, a local talent on the harp, will be performing as we have treats, cocoa, and egg nog to enjoy the season.

Thanks to the generous support of Wingo, there is no charge for this program.

EATON FUNERAL HOME – A TRADITION OF CARE

Family Owned & Operated - Serving Needham and Surrounding Communities Since 1818
Funeral Services & Pre-Planning
Honoring all Religions, Rites, Customs and Cultures

1351 HIGHLAND AVE. • NEEDHAM
781-444-0201
EatonFuneral.com

Medicare OPEN ENROLLMENT
NOV. 15 - DEC. 15
NO. 900. 900

REP DENISE GARLICK'S OFFICE HOURS
MONDAY, NOVEMBER 6TH
11:00 A.M. – 12:30 P.M.
TUESDAY, NOVEMBER 7TH
MONDAY, DECEMBER 4TH
11:00 A.M. – 12:30 P.M.

SENATOR RICHARD ROSS' OFFICE HOURS
MONDAY, NOV. 15TH
10:00 – 11:00 A.M.
MONDAY, FEB. 5TH
10:00 – 11:00 A.M.

HOLIDAY CLOSINGS
MONDAY, OCTOBER 9
COLUMBUS DAY
FRIDAY, NOVEMBER 10
VETERAN'S DAY
THURSDAY, NOVEMBER 23
THANKSGIVING

THE CENTER Page 5
Computer Classes Page 10
Edutube Hotline Page 5
Entertainment Live Pages 1
Exercise and Dance Classes Pages 8
Friends Donations Page 3
Games and More Page 8
Keep Well Clinic Page 4
Lifelong Learning Pages 10
Monday's Lunch Bunch Page 7
SHINE Bulletin Page 4
Shopping Experience Page 5
Support Groups Page 4
You're News Page 4

WINGATE
DROP-IN
MONDAYS 10:00 – 3:00 P.M.
NOVEMBER 6, 13, 20, 27
DECEMBER 4, 11, 18
Contact Person: Paul 617-599-1568

KEEP WELL CLINIC
WEDNESDAY,
9:00 A.M. – 12:00 P.M.
NOVEMBER 1, 15
DECEMBER 6, 20

Medicare OPEN ENROLLMENT
NOV. 15 - DEC. 15
NO. 900. 900

BEREAVEMENT PROGRAM – THE ART OF RITUALS™
THURSDAY, NOVEMBER 2
2:00 – 4:00 P.M.

Rituals are actions done in purposeful ways that provide something much more than the acts themselves. During times of grief, a ritual can help to provide order, comfort, and a sense of meaning. Come and join the conversation on developing individual or family rituals that might help to provide strength and comfort during the holiday season.

Please call 781-455-7555 to RSVP, or email kousackin@needham.gov.

WINGATE
AT NEEDHAM
WingateHealthcare.com

Family Owned & Operated - Serving Needham and Surrounding Communities Since 1818
Funeral Services & Pre-Planning
Honoring all Religions, Rites, Customs and Cultures

1351 HIGHLAND AVE. • NEEDHAM
781-444-0201
EatonFuneral.com

Medicare OPEN ENROLLMENT
NOV. 15 - DEC. 15
NO. 900. 900

WINGATE
AT NEEDHAM
WingateHealthcare.com

Family Owned & Operated - Serving Needham and Surrounding Communities Since 1818
Funeral Services & Pre-Planning
Honoring all Religions, Rites, Customs and Cultures

1351 HIGHLAND AVE. • NEEDHAM
781-444-0201
EatonFuneral.com

Medicare OPEN ENROLLMENT
NOV. 15 - DEC. 15
NO. 900. 900

WINGATE
AT NEEDHAM
WingateHealthcare.com

Family Owned & Operated - Serving Needham and Surrounding Communities Since 1818
Funeral Services & Pre-Planning
Honoring all Religions, Rites, Customs and Cultures

1351 HIGHLAND AVE. • NEEDHAM
781-444-0201
EatonFuneral.com

Medicare OPEN ENROLLMENT
NOV. 15 - DEC. 15
NO. 900. 900

DIRECTOR'S LETTER
A BIG THANK YOU TO THE KNITTING GROUP

Dear Knitting Group,

After reading the letter from the Boston Medical Center, I cannot tell you how touched I was by your kindness shown to the blanket project and patients. I appreciate the hard work of the knitters who volunteered. Know that your contributions will make a difference to enhance patient care. It reminds me that the goodwill and dedication of volunteering is truly for can truly help us at any moment! – Thank you ladies for your love, support, and kindness.

— LaTanya

"Thankfulness is the beginning of gratitude. Gratitude is the completion of thankfulness. Thankfulness may consist merely of words. Gratitude is shown in acts."
— Henri Frederic Amiel

DEAR FRIENDS:

Since the year is swiftly passing by, if you planned to fill out the membership form and send in your dues, we will apply it to the 2018 year (for January 1, 2018 to December 31, 2018). Giving you 2 extra months. So please join now! We have a lot of new members who are receiving the CATH and enjoying the programs at The Center. The Friends pay for printing and mailing of the Compass and support other services/programs. Your membership helps defray expenses.

Please see report for membership form.

Thank you for your wonderful support. We wish you all a very happy holiday season!

— Pat and Carol

FRIENDS OF THE CENTER AT THE HEIGHTS DONATIONS

Donations: John C. Halley • Jamaica W. & Greenway Brown
In Memoriam: Kathleen Powers in Memory of Joseph Powers
Agnès E. O'Brien in Memory of Jo-Anne Donald

TRIP NEWS

PLEASE JOIN THE FRIENDS FOR OUR UPCOMING TRIPS.
PLEASE BOOK EARLY TO AVOID DISAPPOINTMENT.
LAST TWO TRIPS SOLD OUT QUICKLY

For reservations, please phone 781-455-7555 Ext 209. Full payment is due with reservations. Make checks payable to Friends of Friends of the Center at the Heights and mail to 300 Hillside Ave., Needham, MA 02469. Attr: Trips Trips requires at least 36 passengers to operate (No refunds if cancellations).

TUESDAY, NOVEMBER 14
Foxwoods Resort & Casino
COST \$20.00

Trips departs 7:45 am from Linden and Chambers parking lot and 8:00 am from The Center at the Heights. Return approx. 6:30 pm

WEDNESDAY, DECEMBER 6
Sleigh Bells Swing Christmas Show and Lunch at Davenport Yacht Club with Kianthi Pappas
COST \$70.00

Please give lunch choice of chicken with stuffing or salad with seasoned crackers when booking, along with your pick-up location

Trips departs 10:15 AM from Linden and Chambers parking lot and 10:30 AM from The Center at the Heights. Return approximately 4:00 P.M.

FRIDAY, NOVEMBER 24
APOLLO 13 (1995)
PG

This Hollywood drama is based on the events of the Apollo 13 lunar mission, astronauts Jim Lovell (Tom Hanks), Fred Haise (Bill Paxton) and Jack Swigert (Kevin Bacon) find everything going according to plan after leaving Earth's orbit. However, when an oxygen tank explodes, the scheduled moon landing is called off. Subsequent tensions with the crew and numerous technical problems threaten both the astronauts' survival and their safe return to Earth.

FRIDAY, NOVEMBER 24
APOLLO 13 (1995)
PG

This Hollywood drama is based on the events of the Apollo 13 lunar mission, astronauts Jim Lovell (Tom Hanks), Fred Haise (Bill Paxton) and Jack Swigert (Kevin Bacon) find everything going according to plan after leaving Earth's orbit. However, when an oxygen tank explodes, the scheduled moon landing is called off. Subsequent tensions with the crew and numerous technical problems threaten both the astronauts' survival and their safe return to Earth.

CALL SHINE FOR MEDICARE COMPARISON OPTIONS

Every year, Medicare Part D and Medicare Advantage (HMO, PPO) plans can change their premiums, co-pays, deductibles, formularies (list of drugs covered) and preferred pharmacies. It's extremely important to review your options EVERY year to make sure you have the plan that works best for you for next year.

Call your Senior Center and ask for a SHINE appointment. **Be sure to bring your Medicare card, any other drug health insurance cards and benefit information, and a detailed list of your prescription drugs to your appointment.**

Trained SHINE volunteers offer free, confidential counseling on all aspects of health insurance to anyone on Medicare. For Medicare related matters (other than an appointment), call 1-800-AGE-INFO (1-800-243-6236), then press or say 3. Once you get the SHINE answering machine, leave your name and number. A volunteer will call you back, as soon as possible.

Medicare OPEN ENROLLMENT
NOV. 15 - DEC. 15
NO. 900. 900

WINGATE
AT NEEDHAM
WingateHealthcare.com

Family Owned & Operated for THREE DECADES
Post-Acute Rehab • Long-Term Care

Commonwealth Caregivers Home Health Care Services
Live-In/Hourly
Needham, MA
781-483-4460

Medicare OPEN ENROLLMENT
NOV. 15 - DEC. 15
NO. 900. 900

FRIDAY, DECEMBER 15
10:00 – 11:30 A.M.
(15 Minute Sessions)
Must Pre-register
Limit of 5 Participants per Session.

PLEASE NOTE THAT WE WILL BE ADDING "POP-UP" PROGRAMS

If we have space in the CATH after the Compass has gone out, we will try to add programs. We just want to bring you as many options as possible.

WINGATE
AT NEEDHAM
WingateHealthcare.com

Family Owned & Operated - Serving Needham and Surrounding Communities Since 1818
Funeral Services & Pre-Planning
Honoring all Religions, Rites, Customs and Cultures

1351 HIGHLAND AVE. • NEEDHAM
781-444-0201
EatonFuneral.com

Medicare OPEN ENROLLMENT
NOV. 15 - DEC. 15
NO. 900. 900

WINGATE
AT NEEDHAM
WingateHealthcare.com

Family Owned & Operated - Serving Needham and Surrounding Communities Since 1818
Funeral Services & Pre-Planning
Honoring all Religions, Rites, Customs and Cultures

1351 HIGHLAND AVE. • NEEDHAM
781-444-0201
EatonFuneral.com

Medicare OPEN ENROLLMENT
NOV. 15 - DEC. 15
NO. 900. 900

INCLEMENT WEATHER POLICY

It is the policy of the CATH to follow the weather emergency policies governing the Needham Schools. When the Needham schools are CLOSED for a weather emergency, we are closed as well.

PICK UP A FRIEND

AS WE GET BUSIER AT THE CATH – HOW ABOUT CARPOOLING?

It saves gas, helps you to be more social, and it creates a buddy system to check on friends!

NEW! COMPUTER ROOM OPEN HOURS
10AM – 12PM / 1 – 3PM

WEDNESDAY, NOVEMBER 15, 15, 29

DECEMBER:
MONDAYS: 11, 18, 26
TUESDAYS: 5, 12, 19, 26
WEDNESDAYS: 6, 13, 20, 27
THURSDAYS: 7, 21, 28
FRIDAY: 8, 15, 22

FRIDAY, NOVEMBER 24
APOLLO 13 (1995)
PG

This Hollywood drama is based on the events of the Apollo 13 lunar mission, astronauts Jim Lovell (Tom Hanks), Fred Haise (Bill Paxton) and Jack Swigert (Kevin Bacon) find everything going according to plan after leaving Earth's orbit. However, when an oxygen tank explodes, the scheduled moon landing is called off. Subsequent tensions with the crew and numerous technical problems threaten both the astronauts' survival and their safe return to Earth.

THE ELDER ABUSE HOTLINE

To report or ask questions about suspected abuse of an elder, please call the hotline at 1-800-922-2275. For more information, call The Center at the Heights.

GROCERY SHOPPING

To participate in our regular independent grocery shopping service, please call 781-455-7555 ext. 204 for more information. This service provides transportation from one's home to the grocery store. Receive Brothers and Sundry Farms Tuesday, Wednesday and Thursday

FRIDAY, NOVEMBER 15
NO MOVIE

FRIDAY, DECEMBER 22
MEET THE PARENTS (2000)
PG-13

In this comedy, everything that can possibly go wrong for groom-to-be Greg Focker (Ben Stiller) does. The problems begin with Greg's disastrous first meeting with his girlfriend's family – most notably her intimidating father, Jack Byrnes (Robert De Niro) and it's all downhill from there.

FRIDAY, NOVEMBER 24
APOLLO 13 (1995)
PG

This Hollywood drama is based on the events of the Apollo 13 lunar mission, astronauts Jim Lovell (Tom Hanks), Fred Haise (Bill Paxton) and Jack Swigert (Kevin Bacon) find everything going according to plan after leaving Earth's orbit. However, when an oxygen tank explodes, the scheduled moon landing is called off. Subsequent tensions with the crew and numerous technical problems threaten both the astronauts' survival and their safe return to Earth.

FRIDAY, NOVEMBER 24
APOLLO 13 (1995)
PG

This Hollywood drama is based on the events of the Apollo 13 lunar mission, astronauts Jim Lovell (Tom Hanks), Fred Haise (Bill Paxton) and Jack Swigert (Kevin Bacon) find everything going according to plan after leaving Earth's orbit. However, when an oxygen tank explodes, the scheduled moon landing is called off. Subsequent tensions with the crew and numerous technical problems threaten both the astronauts' survival and their safe return to Earth.

MONDAY'S LUNCH BUNCH
SOCIALIZE AND ENJOY A GOOD MEAL!

NOTE NEW TIME! Depart from the Center at 11:15 A.M. in our van. When you sign up, let them know if you will need a van going to your home in Needham to the Center. The van driver could suggest a suggested donation of \$5 for the lunch transportation. You will pay the cost of your meal, tip, and tax at the restaurant.

- Monday, November 06: Grassfield's, Waltham
- Monday, November 13: Christdawn, Scituate
- Monday, November 20: Combi Pub & Restaurant, West Roxbury
- Monday, November 27: Horse N' Carriage, Norfolk
- Monday, December 04: Bertazzoni, Quincy
- Monday, December 11: Friendly's, Framingham
- Monday, December 18: Ninety Nine, Waltham
- Monday, December 25: CATH CLOSED
- Monday, January 01: CATH CLOSED

FRIDAY, NOVEMBER 24
APOLLO 13 (1995)
PG

This Hollywood drama is based on the events of the Apollo 13 lunar mission, astronauts Jim Lovell (Tom Hanks), Fred Haise (Bill Paxton) and Jack Swigert (Kevin Bacon) find everything going according to plan after leaving Earth's orbit. However, when an oxygen tank explodes, the scheduled moon landing is called off. Subsequent tensions with the crew and numerous technical problems threaten both the astronauts' survival and their safe return to Earth.

FRIDAY, NOVEMBER 24
APOLLO 13 (1995)
PG

This Hollywood drama is based on the events of the Apollo 13 lunar mission, astronauts Jim Lovell (Tom Hanks), Fred Haise (Bill Paxton) and Jack Swigert (Kevin Bacon) find everything going according to plan after leaving Earth's orbit. However, when an oxygen tank explodes, the scheduled moon landing is called off. Subsequent tensions with the crew and numerous technical problems threaten both the astronauts' survival and their safe return to Earth.

FRIDAY, NOVEMBER 24
APOLLO 13 (1995)
PG

This Hollywood drama is based on the events of the Apollo 13 lunar mission, astronauts Jim Lovell (Tom Hanks), Fred Haise (Bill Paxton) and Jack Swigert (Kevin Bacon) find everything going according to plan after leaving Earth's orbit. However, when an oxygen tank explodes, the scheduled moon landing is called off. Subsequent tensions with the crew and numerous technical problems threaten both the astronauts' survival and their safe return to Earth.

FRIDAY, NOVEMBER 24
APOLLO 13 (1995)
PG

This Hollywood drama is based on the events of the Apollo 13 lunar mission, astronauts Jim Lovell (Tom Hanks), Fred Haise (Bill Paxton) and Jack Swigert (Kevin Bacon) find everything going according to plan after leaving Earth's orbit. However, when an oxygen tank explodes, the scheduled moon landing is called off. Subsequent tensions with the crew and numerous technical problems threaten both the astronauts' survival and their safe return to Earth.

FRIDAY, NOVEMBER 24
APOLLO 13 (1995)
PG

This Hollywood drama is based on the events of the Apollo 13 lunar mission, astronauts Jim Lovell (Tom Hanks), Fred Haise (Bill Paxton) and Jack Swigert (Kevin Bacon) find everything going according to plan after leaving Earth's orbit. However, when an oxygen tank explodes, the scheduled moon landing is called off. Subsequent tensions with the crew and numerous technical problems threaten both the astronauts' survival and their safe return to Earth.

FRIDAY, NOVEMBER 24
APOLLO 13 (1995)
PG

This Hollywood drama is based on the events of the Apollo 13 lunar mission, astronauts Jim Lovell (Tom Hanks), Fred Haise (Bill Paxton) and Jack Swigert (Kevin Bacon) find everything going according to plan after leaving Earth's orbit. However, when an oxygen tank explodes, the scheduled moon landing is called off. Subsequent tensions with the crew and numerous technical problems threaten both the astronauts' survival and their safe return to Earth.

FRIDAY, NOVEMBER 24
APOLLO 13 (1995)
PG

This Hollywood drama is based on the events of the Apollo 13 lunar mission, astronauts Jim Lovell (Tom Hanks), Fred Haise (Bill Paxton) and Jack Swigert (Kevin Bacon) find everything going according to plan after leaving Earth's orbit. However, when an oxygen tank explodes, the scheduled moon landing is called off. Subsequent tensions with the crew and numerous technical problems threaten both the astronauts' survival and their safe return to Earth.

FRIDAY, NOVEMBER 24
APOLLO 13 (1995)
PG

This Hollywood drama is based on the events of the Apollo 13 lunar mission, astronauts Jim Lovell (Tom Hanks), Fred Haise (Bill Paxton) and Jack Swigert (Kevin Bacon) find everything going according to plan after leaving Earth's orbit. However, when an oxygen tank explodes, the scheduled moon landing is called off. Subsequent tensions with the crew and numerous technical problems threaten both the astronauts' survival and their safe return to Earth.

FRIDAY, NOVEMBER 24
APOLLO 13 (1995)
PG

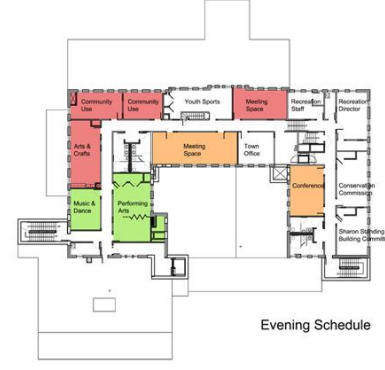
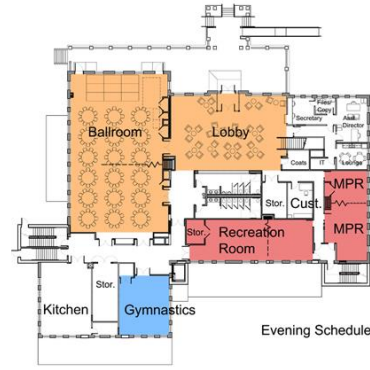
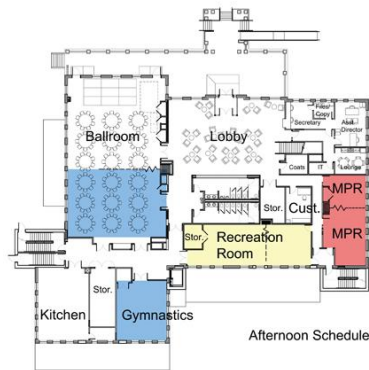
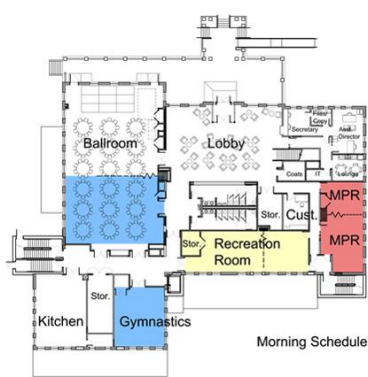
This Hollywood drama is based on the events of the Apollo 13 lunar mission, astronauts Jim Lovell (Tom Hanks), Fred Haise (Bill Paxton) and Jack Swigert (Kevin Bacon) find everything going according to plan after leaving Earth's orbit. However, when an oxygen tank explodes, the scheduled moon landing is called off. Subsequent tensions with the crew and numerous technical problems threaten both the astronauts' survival and their safe return to Earth.

Design for Staff Changes

Scheduling – How to Ensure Multi-Use is Possible?

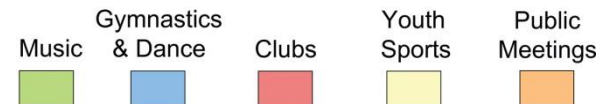


Dedicated Spaces with overlapping usage



Bargmann-Hendrie + Archetype
Sharon Community Center- Programming Flowchart

	Monday	Tuesday	Wednesday	Thursday	Friday
9-10 am					
10-11 am		Advtns in Music			
11- noon					
noon-1	Creative Movement				
1- 2 pm	Youth Sports Music Lessons Gymnastics & Dance	Advtns in Music		Youth Sports Music Lessons Gymnastics & Dance	Advtns in Music
2- 3 pm		Youth Sports Music Lessons Gymnastics & Dance			Youth Sports Music Lessons Gymnastics & Dance
3- 4 pm					
4- 5 pm					
5- 6 pm					
6- 7 pm	Bridge Chess	Clubs Mtgs	Clubs Meetings	Clubs Meetings	Clubs Meetings
7- 8 pm	Bridge Chess	Clubs Mtgs	Karate Clubs/Meetings	Comm. Chorus Clubs/Meetings	Clubs Meetings
8- 9 pm	Bridge Chess	Clubs Mtgs	Karate Clubs/Meetings	Comm. Chorus Clubs/Meetings	Clubs Meetings
9- 10 pm	Clubs Meetings	Clubs Meetings	Karate Clubs/Meetings	Comm. Chorus Clubs/Meetings	Clubs Meetings



Different Approaches to Fitness Programming



60's



70's



80's

Dedicated Maker Space (in lieu of computer labs)



Related BH+A Expertise for potential sites



Inside Outside Opportunities at Recreation Sites



Outdoor Spaces



- Shade
- Infrastructure and Technology
- FF&E
- Security and Safety
- Deck Design
- Green Roof Opportunity

Community Context



Community Context



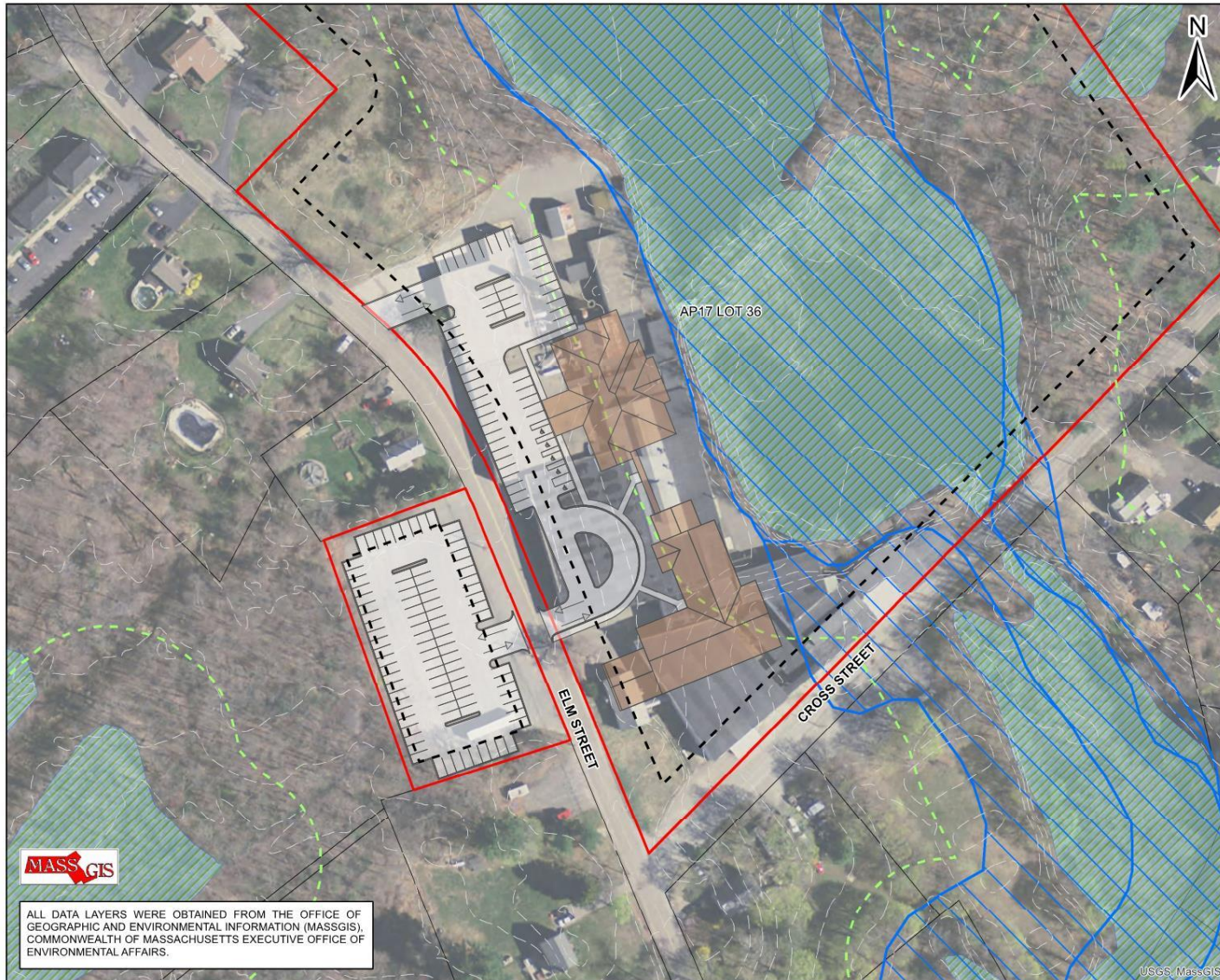
Community Context



Site Considerations

Relative Location
Acquisition or Use Cost
Development Cost
Restrictive Conditions
Utilities
Constructability
Building Adaptability
Site Configuration
Environmental Impact
Traffic
Parking
Public Transportation
Accessibility
Exterior Site Amenities
Community Vision





Legend

- Subject Property
- Building Setback
- FEMA Flood Zone AE (and floodway)
- DEP Wetland
- 100' Wetland Buffer
- Abutting Properties
- Proposed Senior Center and Town Hall
- Proposed Parking
- 2' Contour

1 INCH=100 FEET
 0" 1"
 BAR IS ONE INCH ON ORIGINAL DRAWING



ALL DATA LAYERS WERE OBTAINED FROM THE OFFICE OF GEOGRAPHIC AND ENVIRONMENTAL INFORMATION (MASSGIS), COMMONWEALTH OF MASSACHUSETTS EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS.

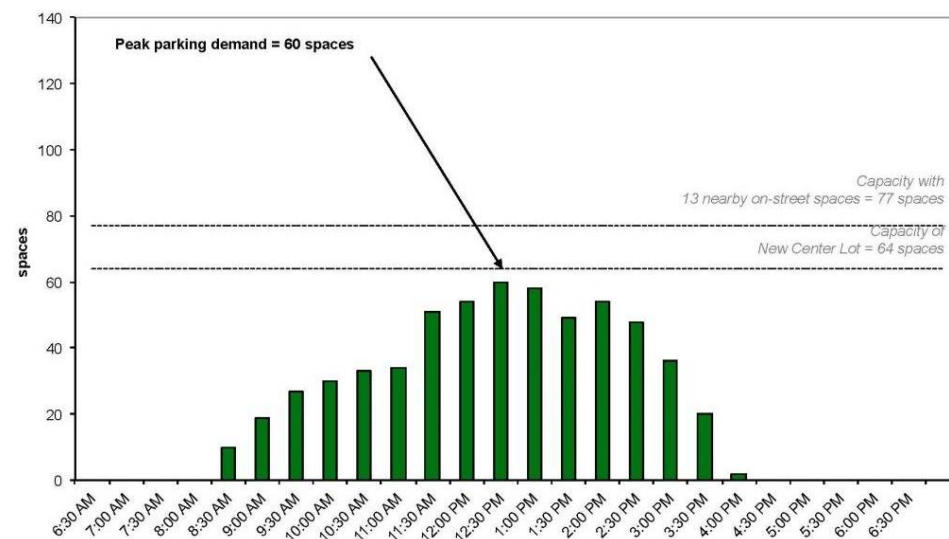
USGS, MassGIS

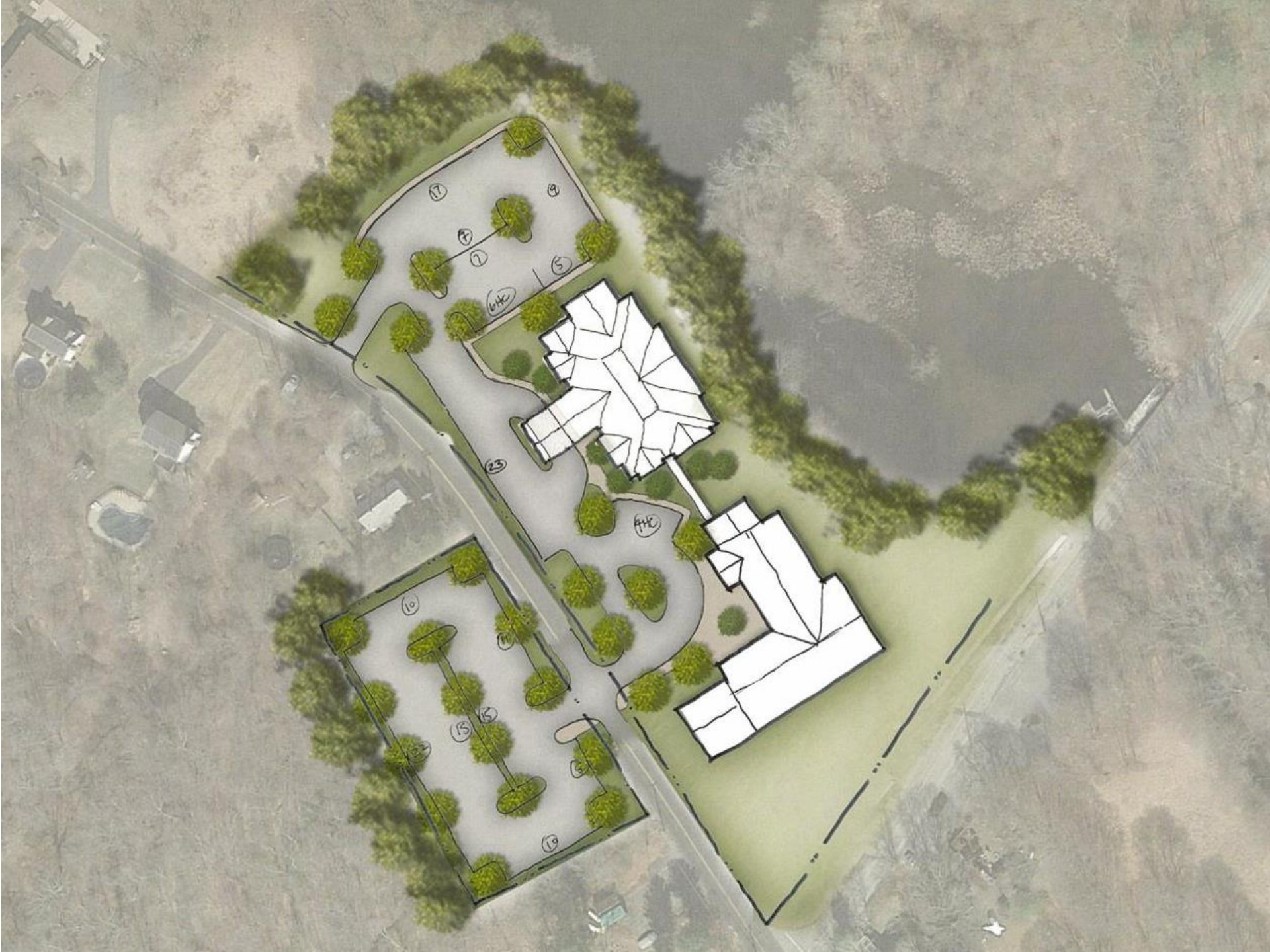
Table 7. Program Duration and Participation at New Center, Scenario 1 - Typical Weekday

Program Times	Program	Participants
8:30 a.m.- 4:00 p.m.	Social services, SHINE, and Additional services	30
8:30 a.m. – 10:30 a.m.	Breakfast	30
9:00 a.m. – 4:00 p.m.	Pool	12
9:00 a.m. – 12:00 a.m.	Bridge/Canasta	12
9:30 a.m. –10:30 a.m.	Yoga	12
9:30 a.m. - 10:30 a.m.	Wii	12
10:00 a.m. - 11:00 a.m.	French	12
10:00 a.m. - 11:00 a.m.	Biology	12
11:00 a.m. - 12:00 p.m.	Aerobics	12
11:00 a.m. - 1:00 p.m.	Current Politics	12
11:45 a.m. - 1:00 p.m.	Lunch	30
12:15 p.m. -1:15 p.m.	Strength Training	
1:00 p.m. – 4:00 p.m.	Canasta/Cribbage	
1:00 p.m. – 2:00 p.m.	Religion	
1:30 p.m. – 2:30 p.m.	Better Balance	
1:30 p.m. – 3:30 p.m.	Movie	
2:00 p.m. – 4:00 p.m.	Support Group	
2:00 p.m. – 3:00 p.m.	Arthritis Exercise	
3:00 p.m. – 4:00 p.m.	Meditation	
Total		

Note that the 300 program participants reflect 200 daily visitors. Based on that 40% of participants stay for 1 activity, 40% stay for 2 activities, and 20% employees.

Figure 10. Visitor Parking Demand by Time of Day: Scenario 1, Typical Weekday





Site Studies: Alternatives on one site





ELM STREET

CROSS STREET POND

CROSS STREET

ELM STREET

17
8
8
11
9

10
9
23
15
15
23
7
10

4

23

PROGRAMS

AFFORDABLE

ACCESSIBLE

users

neighbors

TRAFFIC

TAXES

SECURITY

What matters to Newton teens, families & seniors?



Different “scales” of Community Outreach



Sustainability: Building Systems



- VRF HVAC system
- Geothermal
- Lighting
- Wall Insulation
- Roof Insulation
- Storm Water Management
- Integrated Design

Energy Model

Baseline versus Proposed Building and the variables analyzed for ROI

The Green Engineer, LLP

Sustainable Design Consulting

Detailed Comparison of Proposed Design versus Baseline Design:

Design Parameter	Proposed Building	Baseline Building
Exterior Wall	Above Grade Walls: Renovation: U-value = 0.038	Above Grade Walls: Existing: U-value = 0.064
Roof Construction	Roof U-value = 0.017	Roof U-value = .048
Fenestration Type	All vertical windows are: Low-e double glazed windows SHGC = 0.29	Double Pane clear glass. SHGC = 0.39
Fenestration U-factor	U-value =0.34	U-value = 0.45
Fenestration VLT	0.7	0.7
Interior Lighting	0.70 W/sf according to the lighting design schedule	1.0 W/sf (Area Method)
HVAC System Types	Primary: Mitsubishi VRV heat recovery type heat pumps. Heating COP=3.512 Cooling COP = 3.458 ERV: Energy Recovery Ventilator with 76% efficiency. Gas Absorption Unit to generate hot water for ERV and kitchen MAU, with a G.U.E of 150%	PSZ-AC according to Appendix G TABLE G3.1.1A Unitary Cooling equipment efficiency: From Table 6.8.1A, minimum efficiency requirement is 10.1 EER Furnace Heating efficiency of 80%
		n/a
		n/a

- Equipment efficiencies based on mechanical schedules
- Building occupancy schedule as provided by the project architect.

Occupancy hours: Monday to Friday: 8:30am – 4pm

Some weeknight occupancy

No occupancy on weekends

Baseline – The Baseline is modeled with ASHRAE 90.1-2007 compliant building envelope, lighting and HVAC systems.

ECM#1 – The baseline building with “as-designed” insulation on the walls.

ECM#2 – The baseline building with “as-designed” insulation on the roofs.

ECM#3 – The baseline building with “as-designed” window assembly.

ECM#4 – The baseline building with “as-designed” building envelope (combination of ECMs 1 to 3).

ECM#5 – The baseline building with as 30% reduced lighting power density.

ECM#6 – The baseline building with “as-designed” building envelope and reduced lighting power density (combination of ECM 5 and 6).

ECM#7- As designed building with VRV Heat pumps, energy recovery, improved envelope and lighting, gas fired absorption heat pump. This is the proposed building.

Basic assumptions:

The geometry of the building is based on the latest AutoCAD floor plans, except that window positions are slightly simplified based on a percentage glazing in each zone and exposure. We do not believe this simplification has a material impact on the results described below.

For the various models the following basic parameters were used:

Total Area (SF)	23200
Basement (SF)	3330
First Floor (SF)	11266
Second Floor (SF)	8604

Results

Energy Comparison (Mbtu/yr)									
	Lights	Misc	Heating	Cooling	Pumps & Aux	Vent Fans	DHW	Ext. Lighting	TOTAL
Baseline (ASHRAE 90.1-2007)	228.40	221.00	280.00	53.00	16.00	203.00	28.00	6.00	1,035.40
ECM-1 - Improved Wall (Design)	228.40	221.00	256.00	53.00	15.40	197.00	28.00	6.00	1,004.80
ECM-2 - Improved Roof (Design)	228.40	221.00	270.00	53.00	16.00	199.00	28.00	6.00	1,021.40
ECM-3 - Windows (Design)	228.40	221.00	235.00	55.00	15.60	192.00	28.00	6.00	981.00
ECM-4 - ECMs 1,2 and 3 combined	228.40	221.00	189.00	56.00	15.30	180.00	28.00	6.00	923.70
ECM-5 - Reduced LPD (30%)	160.00	221.00	318.00	48.00	15.50	200.00	28.00	6.00	996.50
ECM-6 - ECMs 4 and 5 combined	160.00	221.00	222.00	50.00	15.30	177.00	28.00	6.00	879.30
ECM-7 - As Designed Building	160.00	221.00	48.60	53.00	6.00	109.00	14.00	6.00	617.60
% End-use for Baseline	22%	21%	27%	5%	2%	20%	3%	1%	
Energy Cost Comparison (Mbtu/yr)									
	Energy (MBtu/SF)	Electricity Cost (\$)	Gas Cost (\$)	Cost (\$)	Savings (\$)	% Savings			
Baseline (ASHRAE 90.1-2007)	1035	44727	\$3,926	\$48,653	-	-			
ECM-1 - Improved Wall (Design)	1006	44355	\$3,537	\$47,892	\$761	1.6%			
ECM-2 - Improved Roof (Design)	1022	44492	\$3,707	\$48,199	\$454	0.9%			
ECM-3 - Windows (Design)	981	44156	\$3,273	\$47,429	\$1,224	2.5%			
ECM-4 - ECMs 1,2 and 3 combined	923	43439	\$2,693	\$46,132	\$2,521	5.2%			
ECM-5 - Reduced LPD (30%)	997	39999	\$4,303	\$44,302	\$4,351	8.9%			
ECM-6 - ECMs 4 and 5 combined	879	38693	\$3,101	\$41,794	\$6,859	14.1%			
ECM-8 - As Designed Building	618	32449	\$344	\$32,793	\$15,860	32.6%			

The modeling indicates that the proposed building will reduce energy consumption by about 40% and energy costs by about 33% as compared to the baseline building.

We understand that an initial goal of a 50% energy savings had been established by the design team. Currently, the majority of savings for the project comes from savings in heating, lighting and fans. We're fairly close to maxing out available savings in the HVAC system – typically VRF systems show about 30% savings, compared to conventional systems. If additional savings is desired, ECMs to be considered should target areas where further reduction is most achievable. These might include:

- Further reduction in lighting power density,
- Daylight dimming and other lighting control strategies
- Reduction in plug and process loads
- Demand control ventilation to reduce ventilation loads and related fan energy
- Renewable energy production

Sustainability: LEED

Project: **The Chain Forge**
Date: 4/26/18
Goal: Certified

LEED Checklist for New Construction and Major Renovation v4



Yes	?	No
47	39	24

Project Totals (pre-certification estimates)

1	0	0
1	0	0



Integrative Process (IP)

1	0	0	IPc1	Integrative Process (1)	d
---	---	---	------	-------------------------	---

11	2	3
----	---	---



Location and Transportation (LT)

0	0	0	LTc1	LEED-ND location (8-16)	d
1	0	0	LTc2	Sensitive land protection (1)	d
2	0	0	LTc3	High Priority Site (1-2)	d
4	1	0	LTc4	Surrounding density and diverse uses (1-5)	d
2	1	2	LTc5	Access to quality transit (1-5)	d
1	0	0	LTc6	Bicycle facilities (1)	d
1	0	0	LTc7	Reduced parking footprint (1)	d
0	0	1	LTc8	Green vehicles (1)	d

1	8	1
---	---	---



Sustainable Sites (SS)

Y			SSp1	Construction Activity Pollution Prevention (P)	c
1	0	0	SSc1	Site Assessment (1)	d
0	2	0	SSc2	Site development - protect/restore habitat (1-2)	d
0	0	1	SSc3	Open space (1)	d
0	3	0	SSc4	Rainwater management (2-3)	d
0	2	0	SSc5	Heat island reduction (1-2)	d
0	1	0	SSc6	Light pollution reduction (1)	d

3	4	4
---	---	---



Water Efficiency (WE)

Y			WEp1	Outdoor water use reduction (P)	d
Y			WEp2	Indoor water use reduction, 20% (P)	d
Y			WEp3	Building-level water metering (P)	d
2	0	0	WEc1	Outdoor water use reduction (1-2)	d
1	1	4	WEc2	Indoor water use reduction (1-6)	d
0	2	0	WEc3	Cooling tower water use (1-2)	d
0	1	0	WEc3	Water metering (1)	d

12	10	11
----	----	----



Energy & Atmosphere (EA)

Y			EAp1	Fundamental commissioning and verification (P)	c
Y			EAp2	Minimum Energy Performance (P)	d
Y			EAp3	Building-level energy metering (P)	d
Y			EAp4	Fundamental Refrigerant Management (P)	d
0	6	0	EAc1	Enhanced commissioning (2-6)	c
12	0	6	EAc2	Optimize energy performance (1-18)	d
0	1	0	EAc3	Advanced energy metering (1)	d
0	0	2	EAc4	Demand response (1-2)	d
0	0	3	EAc5	Renewable energy production (1-3)	d
0	1	0	EAc6	Enhanced Refrigerant Management (1)	d
0	2	0	EAc7	Green power and carbon offsets (1-2)	c

Certified 40-49 Silver 50-59 points Gold 60-79 points Platinum 80-110 points

Yes	?	No
9	4	0



Materials & Resources (MR)

Y			MRp1	Storage & Collection of Recyclables (P)	d
Y			MRp2	C&D waste management planning (P)	c
5	0	0	MRc1	Building life-cycle impact reduction (2-5)	c
1	1	0	MRc2	BPDO - environmental product declarations (1-2)	c
1	1	0	MRc3	BPDO - sourcing of raw materials (1-2)	c
1	1	0	MRc4	BPDO - material ingredients (1-2)	c
1	1	0	MRc5	C&D waste management (1-2)	c

4	7	5
---	---	---



Indoor Environmental Quality (IEQ)

Y			IEQp1	Minimum IAQ Performance (P)	d
Y			IEQp2	Environmental Tobacco Smoke (ETS) Control (P)	d
1	1	0	IEQc1	Enhanced indoor air quality strategies (1-2)	d
1	2	0	IEQc2	Low-Emitting Materials (1-3)	c
1	0	0	IEQc3	Construction IAQ Management Plan (1)	c
0	2	0	IEQc4	Indoor Air Quality Assessment (1-2)	c
1	0	0	IEQc5	Thermal comfort (1)	d
0	1	1	IEQc6	Interior lighting (1-2)	d
0	0	3	IEQc7	Daylight (1-3)	d
0	1	0	IEQc8	Quality views (1)	d
0	0	1	IEQc9	Acoustic performance (1)	d

3	3	0
---	---	---



Innovation & Design Process (ID)

0	1	0	IDc1.1	Ex. Perf. LTc5, Access to Quality Transit	d/c
1	0	0	IDc1.2	Green Building Education	d/c
0	1	0	IDc1.3	Ex. Perf. MRc5, Recycling >95%?	d/c
1	0	0	IDc1.4	Boston Credit - Historic Preservation	d/c
0	1	0	IDc1.5	Sustainable Purchasing - Lamps?	d/c
1	0	0	IDc2	LEED® Accredited Professional (1)	d/c

3	1	0
---	---	---



Regional Priority (RP)

1	0	0	RPc1.1	LTc5 Access to quality transit	d
0	1	0	RPc1.2	SSc5, Rainwater Management (2 pts)	d
1	0	0	RPc1.3	LTc3, High Priority Site	d
0	0	0	RPc1.4	WEc2 (40%), EAc5 (2 pts)	d
1	0	0	Alt.	MRc1 Building Life Cycle Impact Reduction	d
0	*		Alt.		d

Yes	?
47	39

Potential Scores

86 Maximum Possible Score

Site Cost Drivers

With a common building, which factors at a site may contribute to different total costs



Demolition
Topography
Soil Type
Water Table
Wetlands
Storm Water / Drainage
Utilities Access
One Story, Two Story
Hazardous Materials
Driveways and Access
Collateral improvements
Planning Board
Conservation Commission

Simulating the Bid Process



Needham Senior Center
Needham, MA
23,370 GSF

Reconciliation

Owner: TOWN OF NEEDHAM	Date: 16-Jun-11
Project: NEEDHAM SENIOR CENTER	Estimator: MFM
Location: Needham, Ma.	S/F: 23,066
Pricing: DESIGN DEVELOPMENT ESTIMATE Revision 1	Schedule: 14 months

+ Archetype, Inc.

DESIGN DEVELOPMENT COST ESTIMATE COMPARISON

Division	Keough Total	Daedalus Total
01 - General Requirements	\$132,600	distributed below
02 - Sitework & Utilities	\$837,202	
03 - Concrete	\$455,335	
04 - Masonry	\$111,388	
05 - Metal	\$659,202	
06 - Woods and Plastics	\$492,880	
07 - Thermal & Moisture Protection	\$302,831	
08 - Windows & Doors	\$153,945	
09 - Finishes	\$800,211	
10 - Specialties	\$38,850	
11 - Equipment	N/A	
12 - Furnishings	\$125,655	
13 - Special Construction	N/A	
14 - Conveying Services	\$100,000	
15300 - Fire Protection	\$116,325	
15400 - Plumbing	\$210,515	
15500 - HVAC	\$529,600	
16 - Electrical	\$471,064	
Trade Contractors Subtotal	\$5,537,603	\$5,634,629
01 - Builders Risk Insurance \$0.60/100	\$32,026	
01 - General Contractors General Conditions	\$560,000	\$570,636
01 - General Contractors Payment and Performance Bond	\$50,402	\$69,737
01 - General and Excess Liability	\$89,700	\$62,770
01 - Design and Construction Contingency	\$303,487	\$271,731
01 - General Contractors Overhead and Profit	\$159,330	\$160,238
01 - Construction Cost Escalation	\$65,325	\$114,970
	\$6,797,873	\$6,884,711
utility back charge (electrical)	\$75,000	included
TOTAL	\$6,872,873	\$6,884,711

Description	Division Total	Cost / SF
as	\$514,372	\$22.30
ype	\$122,830	\$5.33
	\$0	\$0.00
	\$455,335	\$19.74
	\$111,388	\$4.83
	\$537,752	\$23.31
als ,stairs, rails	\$121,450	\$5.27
	\$492,880	\$21.37
re Protection	\$302,831	\$13.13
	\$48,220	\$2.09
	\$105,725	\$4.58
d	\$490,772	\$21.28
Flooring	\$267,421	\$11.59
	\$42,018	\$1.82
Accessories	\$38,850	\$1.68
	\$125,655	\$5.45
	\$100,000	\$4.34
	\$210,515	\$9.13
	\$116,325	\$5.04
	\$529,600	\$22.96
	\$471,064	\$20.42
nts	\$132,600	\$5.75
BTOTAL	\$5,337,603	\$231.41
its (Not Required)		
ance \$0.60/100	\$32,026	\$1.39
s General Conditions (\$40kx 14 mo.)	\$560,000	\$24.28
s Payment and Performance Bond 1.5%	\$50,402	\$2.19
s Liability \$8.5/K	\$89,700	\$3.89
ction Contingency 5%	\$303,487	\$13.16
s Overhead and Profit 2.5%	\$159,330	\$6.91
Escalation 1.5%	\$65,325	\$2.83
	W/Master Budget	
on Contingency	W/Master Budget	
n Cost	\$6,597,873	\$286.04

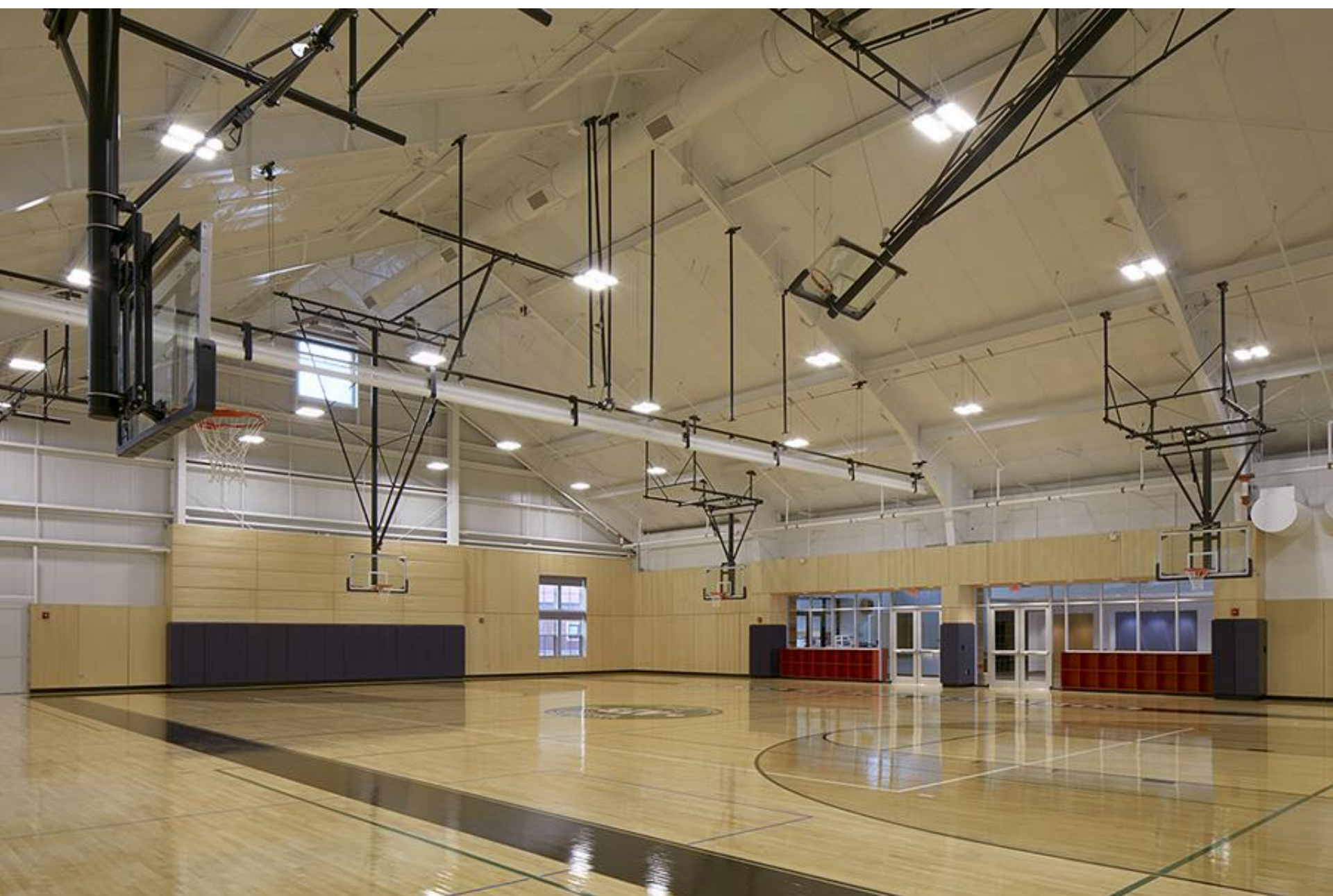
	TOTAL	COST/SF
	\$741,703	\$31.74
	\$4,692,925	\$200.81
	\$5,434,628	\$232.55
,628	\$271,731	\$11.63
	\$5,706,359	\$244.17
359	\$570,636	\$24.42
995	\$62,770	\$2.69
765	\$69,737	\$2.98
503	waived	
503	\$160,238	\$6.86
,740	\$114,970	\$4.92
	\$6,684,711	\$286.04

Cost Comparisons for Alternative Sites

COST COMPONENT	cost range High School Site #2			cost range High School Site #3			cost range High School Site #4			cost range School Administration Site			cost range Gus Cnty Reuse			cost range Coonamessett Inn Reuse		
Sitework	\$1,481,000	to	\$1,629,100	\$1,058,000	to	\$1,163,800	\$2,162,000	to	\$2,378,200	\$1,501,000	to	\$1,651,100				\$50,000	to	\$155,000
Building	\$6,829,000	to	\$7,511,900	\$6,386,000	to	\$7,024,600	\$7,245,000	to	\$7,969,500	\$7,316,000	to	\$8,047,600	\$2,027,000	to	\$2,837,800	\$2,073,000	to	\$2,902,200
Field or Playground Relocation	\$708,000	to	\$778,800	\$708,000	to	\$778,800						\$275,000	\$150,000	to	\$300,000			
TOTAL PROJECT COST RANGE	\$9,018,000	to	\$9,919,800	\$8,152,000	to	\$8,967,200	\$9,407,000	to	\$10,347,700	\$8,817,000	to	\$9,973,700	\$2,177,000	to	\$3,137,800	\$2,123,000	to	\$3,057,200
Negative Cost Factors	long distance to pump station field relocation required			electrical service extension req'd field relocation required			end moraine soil conditions site increases building cost long access road & site utilities larger site cost			need to extend sewer or septic sloping site increases bldg cost potential basement or crawl space field improvements "desirable"			interior requires upgrade cost to relocate rec department playground relocated on or off site			includes accessibility (elevator) zoning of exist mechanical system fresh air and other mech upgrades modifications for SC program		
Positive Cost Factors	potential existing overflow parking flat site high level of visibility			close to pump station flat site stormwater management benefits			potential savings overflow parking no field relocation stormwater management benefits			field relocation is not "required"			existing parking & access existing site utilities & drainage existing building			existing parking & access existing site and landscape existing building		

Pre-Engineered Buildings for Cost Advantage





Estimate vs. Actual Cost

Randolph Intergenerational Center

Needham Center at the Heights

Sharon Senior & Community Center

Boys & Girls Club, Worcester

Chatham Community Center

Malta Community Center & Library

Chelmsford Community Centers

Hyannis Youth & Community Center

ESTIMATE

ACTUAL

\$10,200,000

\$10,100,000

\$6,850,000

\$6,200,000

\$8,000,000

\$8,100,000

\$7,900,000

\$7,600,000

\$6,763,000

\$6,800,000

\$6,125,500

\$5,810,000

\$4,600,000

\$4,700,000

\$16,800,000

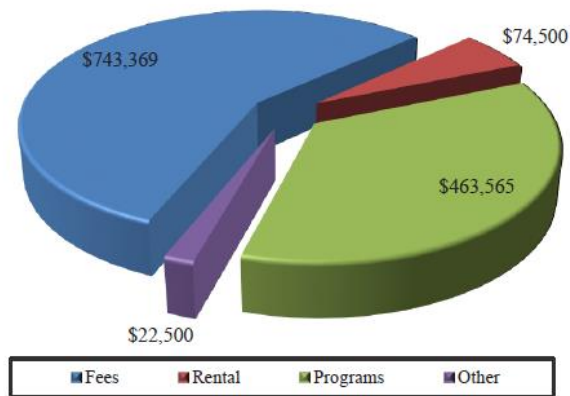
\$16,500,000

Operational Planning

Falmouth Senior Center

How much will new, larger building add to the existing senior/recreational budgets?

	Existing Cost	Additional Cost	Total Cost
Expenses	\$35,000	\$103,000	\$138,000
Salaries	\$202,000	\$284,000	\$486,000
Total	\$237,000	\$387,000	\$624,000



Fairbanks Community Center

What are the revenues required to make this an “expense neutral” facility for the town?

Component	
Administrative Office Space	Indoor Aquatics ¹
Conference Room	Locker Room
Lobby	Child Watch
Gymnasium Space (2)	Wet Classroom
Indoor Running/Jogging Track	Weight Room
Restrooms	Cardiovascular Space
Multi-Purpose Meeting Rooms	Group Exercise
Warming Kitchen	Classrooms (2)

New London Community Center

What are the programs necessary and what is the cost burden of the community center on the City’s budget?

Operational Cost Analysis

IMPACT OF ADDITIONAL SPACE ON THE OPERATIONAL BUDGET

Operational Analysis

Category: Contractual	Existing Cost	Additional Cost	Total Cost
Gas / Electric	\$5,450	\$52,500	\$57,950
Water / Sewer	-	\$3,500	\$3,500
Advertising	-	\$5,000	\$5,000
Communications	\$2,100	\$6,000	\$8,100
Trash Removal	-	\$3,500	\$3,500
Insurance	-	\$5,000	\$5,000
Other: Dues / Memberships	\$2,170	\$1,500	\$3,670
Volunteer / Elderly Services	\$1,000	\$0	\$1,000
	\$10,720	\$77,000	\$87,720

Category: Commodities	Existing Cost	Additional Cost	Total Cost
Office Supplies	\$1,125	\$3,000	\$4,125
Maintenance / Repair Materials	\$2,500	\$5,000	\$7,500
Janitorial Supplies	-	\$6,000	\$6,000
Rec. Program Supplies	-	\$2,500	\$2,500
Food / Meals on Wheels	\$15,000	\$5,000	\$20,000
Uniforms	-	\$1,500	\$1,500
Printing / Postage	\$4,700	\$2,000	\$6,700
Other: Travel	\$1,000	\$1,000	\$2,000
	\$24,325	\$26,000	\$50,325

Category: Salaries	Existing Wages	Additional Wages	Total Cost
FT COA Director	\$86,486	-	\$86,486
PT Outreach Coordinator	\$24,367	-	\$24,367
FT Mini Bus Driver	\$44,970	-	\$44,970
PT Admin. Assistant	\$45,903	-	\$45,903
FT Program Coordinator	-	\$58,500	\$58,500
FT Maintenance Worker	-	\$52,000	\$52,000
PT Front Desk	-	\$43,988	\$43,988
PT Fitness Attendant	-	\$16,891	\$16,891
PT Kitchen Staff	-	\$61,583	\$61,583
PT Computer Lab Attendant	-	\$17,595	\$17,595
PT Building Attendant	-	-	-
PT General Instructor I	-	\$19,872	\$19,872
PT General Instructor II	-	\$13,248	\$13,248
	\$201,726	\$283,677	\$485,403

TOTAL	\$236,771	\$386,677	\$623,448
-------	-----------	-----------	-----------

We can meet or, if you desire, exceed the timeline as published:

Feasibility Study	3 months
Schematic Design & Site Plan Approval	6 months
Design Development	6 months
Construction Documents	10 months
Bid, Construction, Occupancy, FF&E	22 months



Active Living / Aging in Place

Questions & Discussion