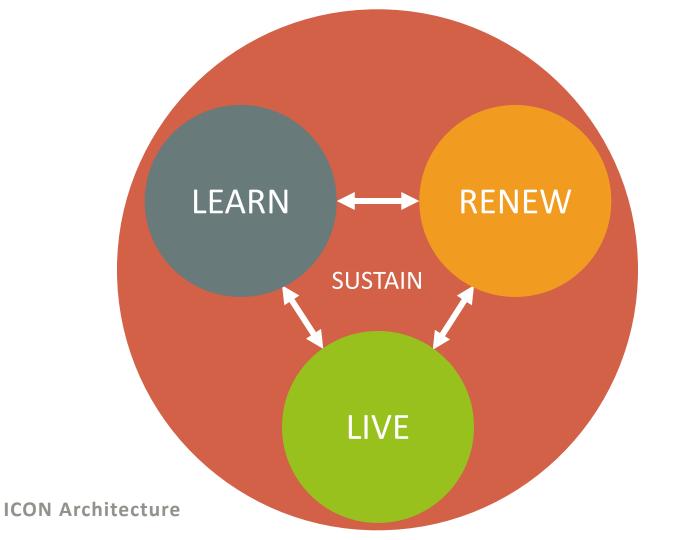


FAIRBANK COMMUNITY CENTER

Town of Sudbury

November 19, 2019



Building Rejuvenation LEARN RENEW Reduced Energy Demand & Lower GHG Emissions

Health & Well-being

Universal Design















A Feasibility Study Is:

- Analysis space program, costs, schedule, site and environmental conditions
- Assessment existing conditions site and building survey, evaluate pros and cons of alternate plans
- Identification risks and opportunities
- Determination practicality/viability of proposed plan

What It Is Not:

- A design
- An architect's opinion of what the program and client goals should be
- A comprehensive review of building codes, which is part of the design process
- A lofty, unattainable proposal



Capital Project

- Owner
- Architects
- General Contractor

General Contractor (GC)

Construction Manager (CM)

Owner's Project Manager (OPM)

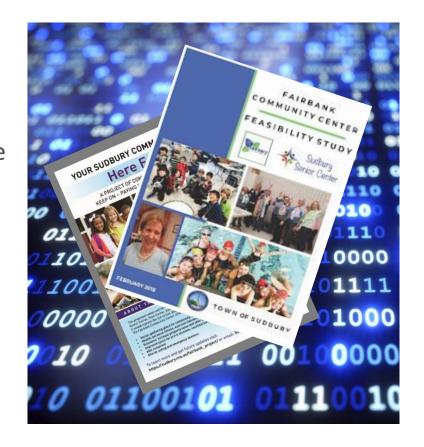
Commissioning (Cx)

Estimated Construction Cost (ECC)
Total Project Cost (TPC)

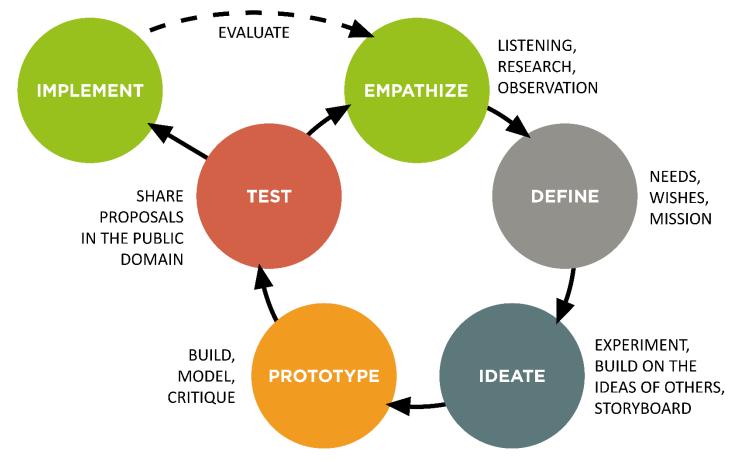


Assess practicality of a new Fairbank Community Center

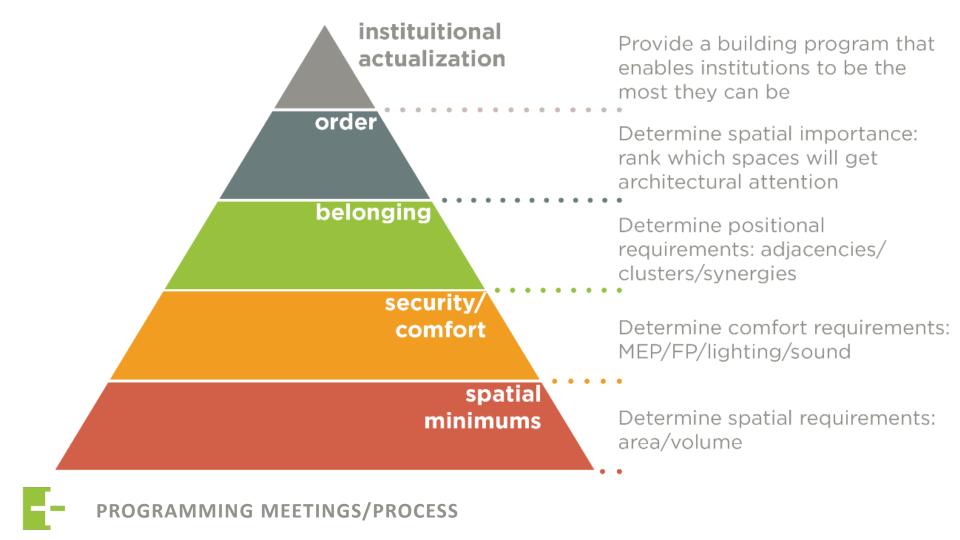
- Survey existing conditions
- Collaborate with stakeholders to determine needs
- Investigate programmatic efficiencies
- Rationally identify strengths and weaknesses
- Study multiple site and planning options
- Publish consensus program solution
- Establish cost parameters
- Deliver statement of probable costs and conceptual program diagrams















- Existing space isn't high quality
- Existing building is very deep - limited daylighting possibilities
- Already multiple additions
- High performing envelope becomes more challenging and expensive
- 15% cost difference between renovation and new; however, less risk
- Site Issues







- Library/Community Center Providence, RI
 - 65,000 GSF \$560/SF
- Community Center Connecticut
 - 35,000 GSF \$550/SF
- Community Center Massachusetts
 - 50,0000 GSF \$525/SF

The current proposal would have been priced at \$23.5M two and half years ago. (Roughly 14% escalation)



For Sudbury Community Center:

- Range \$515 \$525/GSF
- Gymnasia \$385/GSF

Cost/GSF includes:

- Site demolition
- Robust wall assemblies (durability)
- Commercial or catering kitchen
- Audio/Visual integration within (some) program rooms
- Multiple cladding options brick, curtain wall, etc.
- Site work (playing courts, gardens, parking, etc.)
- VRF HVAC system individual control/comfort

This is a medium-sized building, and there are limited economies of scale; smaller buildings cost more.



Add 30% to the Estimated Cost of Construction (ECC) for Total Project Cost (TPC).

The TPC includes:

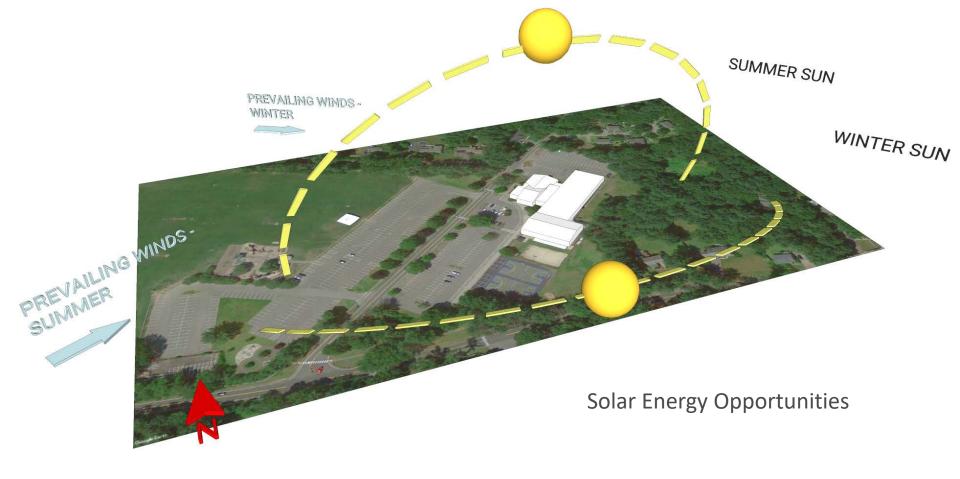
- Owner's contingency
- Furniture, Fixtures and Equipment (FF+E)
- Design team fees
- Utility fees
 - However, there are typically some rebates
- Specialty consultants
 - Hazmat
 - Geotech
 - Survey



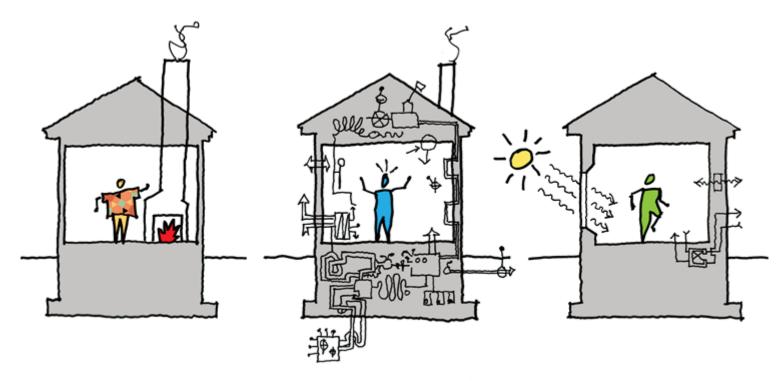
SUDBURY FAIRBANK COMMUNITY CENTER - Final Building Program - 11-19-2019

Existing Building Program Summary	GSF	Proposed Aggregate GSF
Common Areas	4213	
Shared Spaces	1743	Senior Center
Senior Center	3798	Dedicated: 5,754 GSF
Sudbury Public Schools	8709	Aggregate: 15,289 GSF
Recreation Center	4590	Aggi Cgate. 13,203 031
Aquatics	14361	
Gymnasium, Stage, and Storage (Shared)	3490	Recreation Center
Existing Building	40904	
		Dedicated: 11,700 GSF
Proposed Building Program Summary	GSF	Aggregate: 21,235 GSF
Common Areas	4069	
Shared Spaces	8179	Emergency Shelter
Senior Center	5754	12,490 GSF
Sudbury Public Schools	7713	
Recreation Center	11700	
Aquatics (Not in New Construction Total)	14361	
Gymnasium	5160	
Total Proposed Building Program with Aquatics	56936	
Total Proposed Building Program for New Construction	42575	









Credit: Albert Righter Tittmann Architects



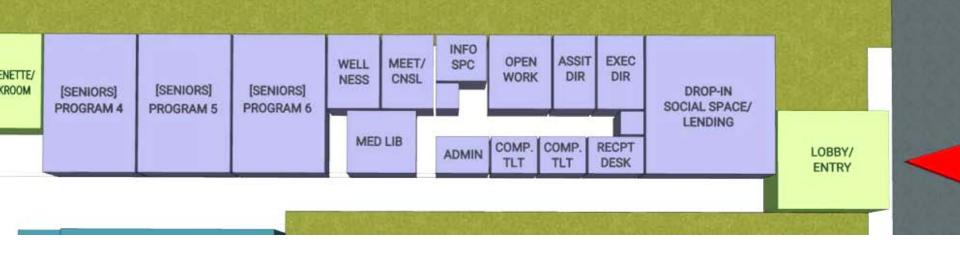






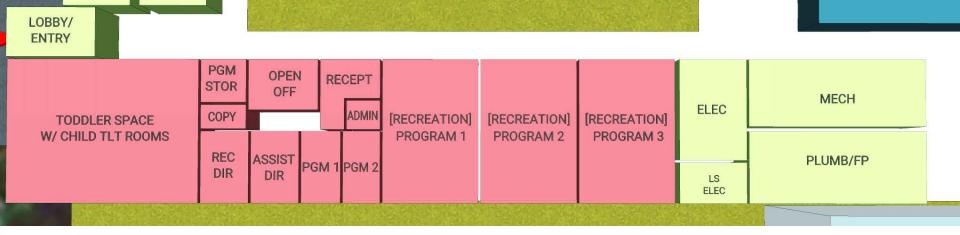






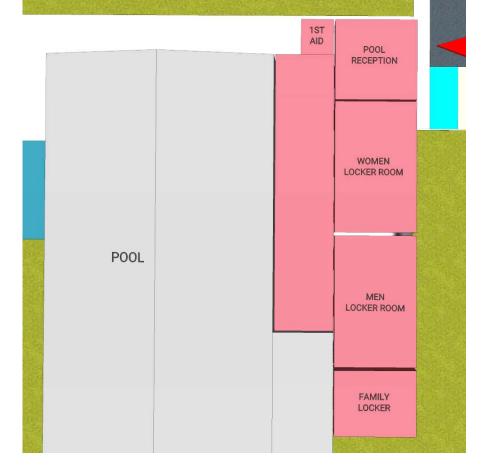






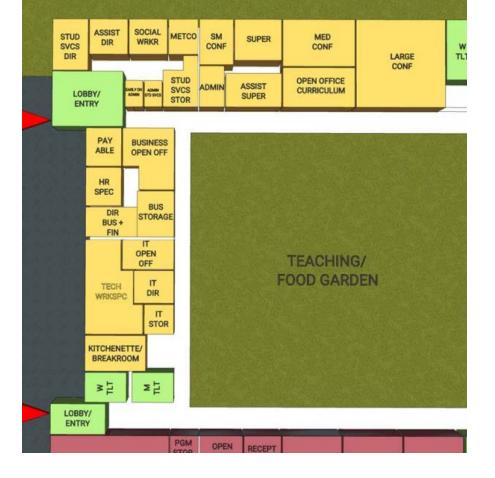






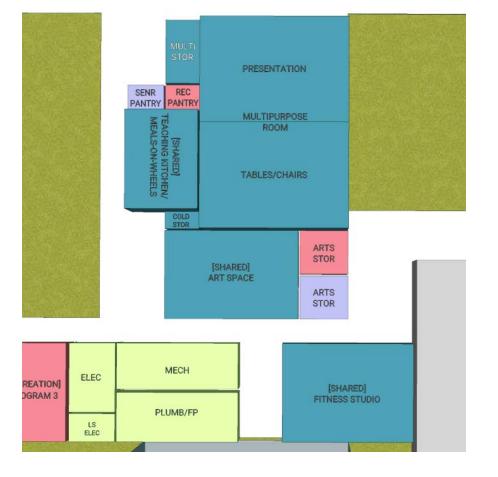




















COMMON AREAS	Nov 7 - Net SF	Comments
		1
Vestibules, Toilet Rooms, Mechanicals		
Building Lobby	700	
Entry Vestibule	130	
Pool Vestibule	120	
Shared Breakroom/Kitchenette (Rec/Senior Ctr)	240	
Men's Restroom	450	Two 2-Fixture Toilet Rooms, One 3-Fixture
Women's Restroom	450	Two 2-Fixture Toilet Rooms, One 3-Fixture
Elec	180	
Life Safety Elec	100	
Plumb/FP	200	
Mech	400	Current NSF includes all MEP/FP
Common Areas Total Gross Square Feet	2970	1
Net to Gross 1.37	4069	

HARED SPACES	Nov 7 - Net SF	Comments
Multipurpose Room	3000	I
Multipurpose Storage	200	
Commercial Kitchen	650	Adjacent multipurpose, and maybe Senior Social space
Commercial Kitchen Walk-in Cold Storage	80	
Commercial Kitchen Storage	40	
Fitness Studio	1000	
Art Space	1000	Part of Teen Center

Shared Spaces Total Gross Square Feet	5970
Net to Gross 1.37	8179



NIOR CENTER	Nov 7 - Net SF	Comments
Iminstrative Area	ļ	I
Executive Director	150	
Assistant Director (future Position)/ Program Coordinator	120	
Administrative Assistant	95	
Information Specialist	95	
Workspace for 4 (grant employees & volunteers)	150	
Small Meeting Room/Counseling	150	
Wellness Office	160	
Copy/Supplies	80	
Coat Closet		In net-to-gross
Subtotal	1000	
Arts & Crafts Storage Kitchen Pantry Program Room 4 Program Room 5 Program Room 6	100 60 600 600 600	
General Storage		In net-to-gross
Subtotal		2510-Project Estimations Spreadsheet
partment Back-of House		
Companion Toilet Rooms	160	One for each gender
	200	
Medical Equipment Lending Library		
Medical Equipment Lending Library Subtotal	360	



CHOOL ADMINISTRATION	N	lov 7 - Net SF	Comments
ont-of-House			
bbby/Waiting/Entry		300	
Security		50	
	Subtotal	350	
dministration	Ī	Ī	
Superintendent		225	
Executive Assistant		55	
	Subtotal	280	
dministration and Curriculum	1	1	
Assistant Superintendent		225	
Open office for:		Subjected .	
Math Curriculum Coordinator		60	
Humanities Curriculum Coordinator		60	
Science Curriculum Coordinator		60	
Science Coach		60	
Wellness Curriculum Specialist		60	
Storage		100	
	Subtotal	625	
udent Services	1		
Student Services Director		150	
Assistant Student Services Director		100	
Social Worker/Team Chair		100	
METCO Director		100	
Admin Assistant to Student Services		55	
Early Childhood Admin Assistant		55	
Storage -Active - IEP's /Documents		60	
Storage - Long Term		100	
	Subtotal	720	
usiness and Finance	1	1	

HR Specialist	100		
Accounts Payable Accountant	100		
Open Office for:			
Payroll Clerk	55		
Business Office Clerk 1	55		
Business Office Clerk 2	55		
Mail Clerk	55		
Dedicated work space for visitors	55		
Dedicated work space for visitors	55		
Storage -Active -Payroll	60		
Storage -Active - HR	60		
Storage - Long Term -Payroll	60		
Storage - Long Term -HR	60		
Subtotal	920		
formation Technology			
Director of Technology	100		
Open Office for:			
Network Specialist	55		
Elementary Tech. Specialist	60		
Data Specialist	55		
Storage for Tech	100		
Technology Workspace (Server Room?)	500		
Subtotal	870		
onference Room and Back-of-House			
Conference (Small 1-6 People)	180	To be adjacent to Superintendant	
Conference (Medium 1-15 People)	360		
Conference/Curriculum Development (Large 13-30 People)	1000		
Kitchenette/Break Room	225	Strong Preference for separate break area	
Copy Room/Storage	100		
Custodial		In net-to-gross	
Subtotal	1865		
Sudbury Public Schools Total Gross Square Feet	5630		
Net to Gross 1.37	7713		



CREATION	Nov 7 - Net SF	Comments
ministration		
Reception (covers Building Lobby & Rec. Dept.)	100	
Director's Office	150	
Assistant Director & Office Coordinator Office	150	
Admin. Assistant	40	
Common Office	160	
Program Office 1 (Program & Youth Coordinator)	100	
Program Office 2 (Rec. & Fitness Programming)	100	
Copy/Supplies	60	
Subtotal	860	
•	500550	
ogram Space		
Program Room 1	600	
Program Room 2	600	
Program Room 3	600	
Preschool Space with integral child toilet rooms	1200	
Arts & Crafts Storage	60	
Camp/Off Season Storage	100	
Gymnasium	4960	
Gymnasium Storage	200	
Subtotal	8320	
Subtotal Less Gym	3160	Gymnasium carried separately above
quatics		1
Pool Lobby & Reception	400	50% in net-to-gross factor
Existing Pool Space		Existing
Addition - Bleacher Seating/Aquatics Office		To square off existing adjacent area
Pool Storage		Existing
Pool Filtration	420	Existing
Pool Electrical	191	Existing
Pool Mech/Support		Existing
Aquatics Office	250	Existing
First Aid Treatment	120	
Pool Locker Rooms - Men	1000	
Pool Locker Rooms - Women	1000	
Family Changing Room		Companion Changing internal
Subtotal	4520	New Construction/Existing spaces excluded
•		
Recreation Center Total Gross Square Feet	8540	
Net to Gross 1.37	11700	



	OVERALL PROJECT BUDGET WORKS Fairbank Community Center Sudbury, MA 19-Nov-19	SHEET	
1	BUILDER'S RISK INSURANCE	In Construction Cost	\$0.00
2	ARCHITECTURAL & ENGINEERING FEES	Feasibility Study + 8% of Construction	\$1,873,059.00
3	ADDITIONAL DESIGN & PROFESSIONAL SERVICES	Commissioning	\$50,000.00
4	CONSTRUCTION COST Demolition Site Trade Costs Constructions Management Fees and Costs Estimating Contingency SUBTOTAL	12%	\$184,500.00 \$3,717,191.00 \$14,168,584.00 \$2,577,629.00 \$2,168,433.00 \$22,816,337.00
5	TESTING OF SOILS, MASONRY, STEEL, MATERIALS, ETC.	In Owner's Contingency	\$0.00
6	AUDIO / VISUAL EQUIPMENT	Allowance	\$50,000.00
7	FF&E / MISCELLANEOUS	Allowance	\$375,000.00
8	SIGNAGE - EXTERIOR	Allowance	\$5,000.00
9	UTILITY COMPANY CHARGES		\$0.00
	SUBTOTAL		\$25,169,396.00
10	OWNER'S CONTINGENCY	10% of Construction	\$2,315,800.00
	Total Project Cost (TPC)	TOTAL	\$27,485,196.00
	ESCALATION	Mid-point of 2021	\$596,902.00
	OWNER'S PROJECT MANAGER (OPM)	3%-5% of Construction	\$702,400 - \$1,170,660
	COST OF GYMNASIUM	(Deduct Alternate)	\$2,172,555.00



Existing Building Program Summary	GSF	Typical	Renovation Cost \$450/SF*
Common Areas	4213	\$	1,895,850.00
Shared Spaces	1743	\$	784,350.00
Senior Center	3798	\$	1,709,100.00
Sudbury Public Schools	8709	\$	3,919,050.00
Recreation Center	4590	\$	2,065,500.00
Aquatics*	14361	\$	359,025.00
Gymnasium, Stage, and Storage (Shared)	3490	\$	1,570,500.00
Existing Building	40904		
Trade Cost Subtotal		\$	12,303,375.00
		*Aquatics renovation at \$25/SF for deck and other pool repairs	

	RENOVATION — OVERALL PROJECT BUDGET WORKSHEET				
	Fairbank Community Center				
	Sudbury, MA				
	19-Nov-19				
			40.00		
1	BUILDER'S RISK INSURANCE	In Construction Cost	\$0.00		
2	ARCHITECTURAL & ENGINEERING FEES	Feasibility Study + 8% of Construction	\$984,270.00		
3	ADDITIONAL DESIGN & PROFESSIONAL SERVICES	Commissioning	\$50,000.00		
4	CONSTRUCTION COST Selective Demolition Site		\$184,500.00 \$1,233,750.00		
	Trade Costs		\$12,303,375.00		
	Constructions Management Fees and Costs		\$2,238,284.14		
	Estimating Contingency	15%	\$1,845,506.25		
	SUBTOTAL		\$17,805,415.39		
5	TESTING OF SOILS, MASONRY, STEEL, MATERIALS, ETC.	In Owner's Contingency	\$0.00		
6	AUDIO / VISUAL EQUIPMENT	Allowance	\$50,000.00		
7	FF&E / MISCELLANEOUS	Allowance	\$375,000.00		
8	SIGNAGE - EXTERIOR	Allowance	\$5,000.00		
9	UTILITY COMPANY CHARGES		\$0.00		
	SUBTOTAL		\$19,269,685.39		
10	OWNER'S CONTINGENCY	13% of Construction	\$1,599,438.75		
	Total Project Cost (TPC)	TOTAL	\$20,869,124.14		
	ESCALATION	Mid-point of 2021	\$518,319.85		
	OWNER'S PROJECT MANAGER (OPM)	3%-5% of Construction	\$369,100 - \$615,200		
	COST OF GYMNASIUM		N/A		



L ARCHITECTURE