

Town of Sudbury

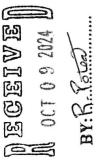
Community Preservation Committee

cpc@sudbury.ma.us

Flynn Building 278 Old Sudbury Road Sudbury, MA 01776 978-639-3387 Fax: 978-639-3314

www.sudbury.ma.us/cpc

		PRO	OJECT SUBMI	SSION FORM	
	Applicant:	Sheila Cusolito for Sudbury H	ousing Authority on (if any): Sudbury Housing	Submission Date:	9/6/2024
		ddress: 55 Hudson Road		Purpose (please select all that apply):	
	Applicant P Project Man Project Man	ager Email: director@	tion 5 @sudburyha.org 3-5112, option 5	Open Space & Recreation X Community Housing Historic Resource	
			ooses to redevelop four single-fami	ly homes in its portfolio: 21 Great Lake Dr, 8 Oakwood Ave, 2 Beechwoo	d Ave, and
	<u>Costs</u> : Fiscal Year	Total Project Cost	CPC Funds Requested	Other Funding Sources (Amount and Source)	
	2026	\$4.18MM		Other Funding Sources (Amount and Source)	
	2027	φ4. ΙΟΙΝΙΝΙ	\$450,000	Previously awarded CPA (\$650k)	
	2027			Development mitigation funds (\$90k)	
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		Newly awarded Public Housing Innovations Grant (\$1.2MM plus operating subsidy)	
	2029			Green enery funding (\$100k)	
	2030			Private mortgage (\$1.26MM)	
	Total			Deferred developer fee (\$432.6k)	
15	Preservation	Committee projects	s (see attached)?	egory Specific Criteria for Community).
	or Departme applications The project over Select Board; Ho ongoing engage Preservation Co	ents? If so, please lis and/or presentation view has been presented to to ousing Trust, Community Pre ment format. The Select Boa	st the boards, committees is have been made, and verthe following departments, boards asservation Committee. Additionally, and unanimously voted to continue prior version of this application for	of other Town Boards, Committees, Commissions, so, commissions, or departments, whether what input or recommendations have been given. & committees: Planning & Community Development; Town Manager; Asset the project overview has been presented to abutters of the four properties of the four properties following redevelopment. The Committee ATM2024 warrant; however, Article 37 was subsequently indefinitely	es, with an
		ed On: 9 - 6 - 3	24	Project Presented to CPC On:	_
	Reviewed By	R. Poteat		Determination:	Ŷ.





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PR	OJECT SUBMI	SSION FORM	
Applicant: Sudbury Housing Authority		Submission Date:	replaces 9/6/2024
Group or Committee Affiliation	on (if any):		
Applicant Address: 55 Hudson Ro	ad, Sudbury MA 01776	Purpose (please select all that app	<u>ly</u>):
Project Name: Redevelopment of Sir Project Description: Please see a Costs:	t. 5 @sudburyha.org 3 5112 ext. 5 gle-Family Homes ttached narrative, response #1.	Open Space & Recreations Community Housing Historic Resource	
Fiscal Year Total Project Cost 2026 \$4,182,005	CPC Funds Requested \$450,000	Other Funding Sources (Amount and Source)	
2027	\$430,000	SHA monies, private mortgage, green energy funding, competitive housing loans: \$3,732,000	_
2028		, , , , , , , , , , , , , , , , , , , ,	-
2029			-
2030	Mena		_
Total			
How does this project meet the Preservation Committee project Please see attached narrative, response #2.		egory Specific Criteria for Community	
or Departments? If so, please lis applications and/or presentation Please see attached narrative, response #3. For Community Preservation Community Preservatio	st the boards, committees is have been made, and we have been made, and we have been made.	of other Town Boards, Committees, Commisses, commissions, or departments, whether what input or recommendations have been give Project Presented to CPC On:	en.
Reviewed By: R. Potes	- A	Determination:	1

Redevelopment of Scattered-Site Chapter 705 Properties Sudbury Housing Authority



Project Narrative

The Sudbury Housing Authority (SHA) is pleased to submit an application for Community Preservation Act funding to support the redevelopment of four Chapter 705 single-family homes in its portfolio: 21 Great Lake Drive, 8 Oakwood Avenue, 2 Beechwood Avenue and 9 Richard Avenue (the "Single-Family Homes"). SHA proposes to leverage state, local and private resources in order to transform these Single-Family Homes into energy-efficient, high-quality duplexes, with all units utilized as affordable rentals. The project will construct four replacement units and four net new units.

Prompted by the financial and physical challenges associated with the Single-Family Homes, and the need for smaller units in its inventory, SHA opted in 2021 to study its options for redevelopment of the sites. SHA hired an engineering firm, Hancock Survey Associates (Hancock), and an affordable housing consultant, the Cambridge Housing Authority (CHA). Both firms worked under the direction and supervision of the SHA Board and staff.

The project team conducted a successful concept phase of design and predevelopment. Once all financing is secured, the project team proposes to demolish the Single-Family Homes and reconstruct duplexes. SHA wishes to make clear that any site plans proposed to date are purely conceptual and do not represent its final plans for redevelopment of the sites. SHA has begun an extensive process of community and resident engagement, as well as working with the Town Departments and the Select Board. SHA wants to ensure that the design selected reflects the characteristics of the neighborhood.

The total development cost of the project is \$4.18M, with over \$1.94M already secured. A project budget, dated April 3, 2024 is attached as Exhibit A. The project budget will be examined periodically to ensure its accuracy as the project proceeds.

The duplexes will be constructed with slab-on-grade modular construction. Overall, there will be eight deeply affordable rental units. Four units will replace the existing units, "Replacement Units". Four netnew units will be added to the properties, "New Units". The residents of all eight units would pay no more than 30% of their income on rent. The maximum income of applicants for the Replacement Units would be set at 50% of Area Median Income. The New Units will serve applicants earning up to 80% of AMI. It is anticipated that the units would serve lower income families based on SHA's existing residents, applicants and the proposed tenant selection plan. The proposed unit mix reflects the current need for family housing within SHA's waiting list and portfolio, in which over-housing is a consistent concern.

Key indicators of project feasibility and readiness are:

<u>Preliminary site plans</u>: Soil suitability assessments conducted by Hancock are attached as Exhibit B. The assessments confirmed the feasibility of septic systems for two-family homes. In order to contain costs and develop conceptual pricing, the project team extensively studied the possibility of modular housing on the sites, including conversations with multiple modular builders and affordable housing developers who recently completed modular projects. The project team found that modular construction will result in significant cost savings over vertical construction.

¹HUD defines over-housing as follows: if the bedroom size of the family's unit exceeds the number of bedrooms for which the family qualifies under the subsidy program.

Redevelopment of Scattered-Site Chapter 705 Properties Sudbury Housing Authority



Relocation: Two of the four properties are currently vacant or will be vacant soon. SHA is considering utilizing a staggered construction start for each of the properties, whereby demolition and construction begins with the currently vacant units. Upon completion of those homes, the new units would serve as the relocation resources for the other two Single-Family Homes to be redeveloped.

<u>Feasibility Issues</u>: The Single-Family Homes are located in an A-Residential zoning district. The project team identified that redevelopment of the properties will require zoning relief related to setbacks through a variance or comprehensive permit. SHA met with the Sudbury Director of Planning and Community Development and received constructive feedback on the site plans. Per guidance from the Town Planner, the project will apply for a Comprehensive Permit under the Local Initiative Program. A letter of support written to the Massachusetts Executive Office of Housing and Livable Communities' (EOHLC) Undersecretary of Public Housing & Rental Assistance from the Director of Planning and Community Development is attached as Exhibit C.

<u>Schedule</u>: SHA anticipates completing the full design and predevelopment of the project in 2025, with construction starting by 2026. A construction term of 12 months² is contemplated. Please see Exhibit D for the project's schedule.

Ownership Structure: SHA anticipates submitting a request to HLC in the near future for conveyance of the property to a SHA-owned LLC per Public Housing Notice 2023-04 to access public procurement relief. SHA anticipates that this affiliate will have long-term ownership of the properties.

Among the proposed project's positive features are complete concept design and significant awarded state funding (\$1.2MM, 29% of TDC), with the award letter attached as Exhibit E. The state also awarded SHA four MRVP vouchers that will provide an operating subsidy to fund ongoing maintenance and capital repairs for all eight of the units

pg. 2 - Version date: 10/8/24

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² The 12-month construction term is based on modular research conducted by SHA's consultant that indicates a typical modular construction schedule of 10-16 months.

Redevelopment of Scattered-Site Chapter 705 Properties Sudbury Housing Authority



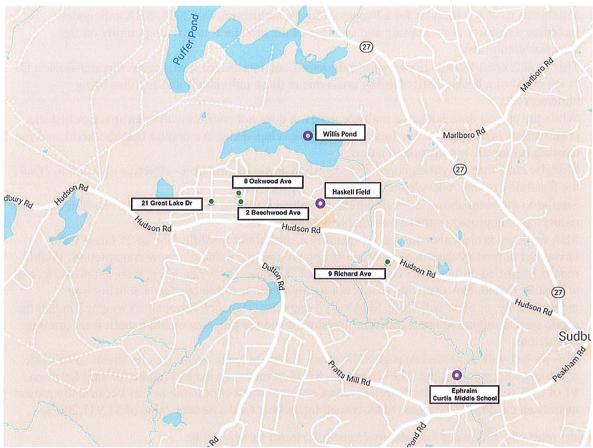


Figure 1: Map of Single-Family Homes in close proximity to schools and recreation spaces, such as the Ephriam Curtis Middle School, Haskell Field, and Willis Pond.

#2. How does this project meet the General Criteria and Category Specific Criteria for Community Preservation Committee projects?

The project meets the following General Criteria for eligibility:

- The new construction of affordable housing is eligible for Community Preservation Act (CPA) funding according to the requirements described in the CPA legislation.
- The project is consistent with and provides housing options that address some of the challenges identified in the 2021 Master Plan. All units created and replaced in this project will count as both affordable and subsidized housing, aligning with the Plan's strategy to create a much more diverse housing stock.
- The project is consistent with the 2016 Housing Production Plan in terms of identified needs, goals, and strategies. The first goal reads, "Create more affordable housing opportunities, both rental and homeownership, for eligible households, including for households with very low and extremely low incomes...", this project will create increased opportunities for individuals with very to extremely low incomes to secure stable and high-quality rental housing in the community.
- As with all prior development projects, SHA will assemble a talented design team in order to
 create housing that preserves the essential quality of the town and is harmonious architecturally
 with the surrounding neighborhood. These are cornerstone considerations for SHA. SHA

Redevelopment of Scattered-Site Chapter 705 Properties Sudbury Housing Authority



anticipates issuing a Request for a Proposals for an architect in fall 2024. SHA anticipates including a resident of its housing and member of the broader Sudbury community on the selection committee.

- This project creates rental housing for individuals and families of low income. Greater Boston is in the midst of a housing affordability crisis due to these individuals and families being underserved.
- While the project does not serve multiple needs, it does not conflict with open space or historic preservation work in town. The lots are already developed and in a mature neighborhood, and the existing homes are not historic in nature.
- Modular construction was explored and identified as a cost- and time- effective measure to ensure the feasibility of this redevelopment project.
- Similar to the point above, a development consultant has been hired to help SHA staff manage the redevelopment project within a reasonable budget.
- SHA explored project alternatives, particularly a substantial rehabilitation of 21 Great Lake Drive, but ultimately determined several strong factors that pointed to new construction. Visible repairs identified during a site visit from EOHLC's House Doctor architect were estimated to cost at least \$137,000. However, this cost is not inclusive of an architect's fee, a construction manager's fee, or other soft costs. SHA's civil engineer (Hancock Associates) weighed in that the septic system might require significant investment and the property would benefit from grading corrections.
- This project will be funded through SHA monies, private loans, incentives for green/sustainable buildings, and state funding. SHA leverages \$2.33 of other private and public funding for every \$1 of CPA support. This advantageous return on investment is possible in part because the project utilizes an existing Town asset (SHA-owned lots with a total assessed value of \$1,937,200³).

The project meets the following Community Housing Criteria for eligibility:

- The project will provide four net new affordable and deeply subsidized rental units for families of low income.
- The project will conform to the Town's Housing Production Plan.
- It will promote socioeconomic diversity by increasing housing opportunities for families and individuals with incomes at or below 80% AMI, 60% AMI and 30% AMI.
- New affordable, subsidized housing units will be woven into the fabric of an existing mixedincome neighborhood.
- SHA will ensure long-term affordability through deed restrictions and regulatory agreements, with resident income eligibility periodically recertified.
- To the extent allowable while following Affirmative Fair Housing rules, the project will give preference to Sudbury residents and Town employees.

#3. Does this project fall within the jurisdiction or interest of other Town Boards, Committees, Commissions, or Departments? If so, please list the boards, committees, commissions, or departments, whether applications and/or presentations have been made, and what input or recommendations have been given.

SHA anticipates that the redevelopment project will involve collaboration with a broad range of Town stakeholders. To-date SHA formally presented the preliminary redevelopment concept to the following boards:

³ Source: Town of Sudbury Assessors Online Database

Redevelopment of Scattered-Site Chapter 705 Properties Sudbury Housing Authority



- SHA met with the Director of Assessing, Cynthia Gerry and Town Manager, Andrew Sheehan, to propose the redevelopment. This meeting occurred at SHA's main office. Cynthia Gerry and Andrew Sheehan provided constructive feedback for the project.
- SHA met with the Director of Planning and Community Development, Adam Burney, to introduce him to the project. Adam Burney expressed his support for the project and suggested that SHA apply for a Comprehensive Permit.
- SHA presented the redevelopment concept to the Select Board and requested that the Select Board approve of the continuation of the PILOT Agreement during and after redevelopment. SHA is following an EOHLC process to transfer ownership of properties to an affiliate LLC to obtain public procurement relief for designer selection and selection of a construction manager. EOHLC requires that the PILOT remain intact after the transfer of the properties. The Select Board approved continuation of the existing PILOT Agreements. The agreements are subject to change depending on further Select Board discussions.
- SHA presented to the CPC in Fall 2023 to share the concept of the Redevelopment of Single-Family Homes.⁴
- SHA held two public meetings including an introductory presentation and Q&A session. Many residents from the Pine Lakes and surrounding neighborhoods attended and expressed concerns regarding increased density in the already densely populated neighborhood. SHA responded to questions and continues to engage in discussions and information sharing. SHA will keep the neighborhood apprised of all project updates and hopes to mitigate concerns via close collaboration with the project design team to achieve a design that aligns with the structures in the neighborhood and uses SHA's properties efficiently.

In addition to the meetings above, SHA has successfully collaborated with many stakeholders on previous projects to increase and/or to stabilize rental housing and tenancies in Sudbury. The entities that SHA anticipates working with to ensure that the redevelopment project meets community needs include:

- Town Manager SHA anticipates ongoing conversations throughout the development process.
- Select Board SHA may present to the Select Board during the development process.
- Sudbury Housing Trust
- Planning and Community Development (and related committees) SHA anticipates ongoing conversations throughout the development process.
- Community Preservation Committee
- Zoning Board of Appeals
- Conservation Commission
- Building Department
- Board of Health
- Police and Fire Departments
- Sudbury Foundation
- Council on Aging

#4. Need for affordable housing in Sudbury

There is strong demand for affordable housing in Sudbury. Among data points that demonstrate the need for projects such as the redevelopment of SHA's Chapter 705 homes are:

⁴ At that time, SHA's proposal to the CPC did not include all four homes. It contained just the two homes then anticipated to be in the first phase (21 Great Lake Drive and 8 Oakwood Ave). For clarity, SHA has elected to resubmit an application that includes all four homes.

Redevelopment of Scattered-Site Chapter 705 Properties Sudbury Housing Authority



- 1.5%--approximately 278 community members of the Sudbury population--falls below the poverty threshold. Of those individuals, 58% are estimated to be adults (18 years and older), with 29.6% of those individuals estimated to be 65 years or older⁵.
- 28% of households that rent face a housing cost burden (paying more than 30% of their income on housing)⁶.
- Vacancy rates are very low for both owner-occupied and renter-occupied properties. There are 6,386 occupied housing units and only 170 vacant housing units, representing a vacancy rate of approximately 2.5%. This vacancy rate reflects high housing demand⁷.
- SHA's October 2024 waiting list for its 16 units of family public housing contains 13,962 applicants.

#5. Provide examples of similar project proposals in other communities, if any, including examples of project scope, project cost, and status of completion

There are many CPA communities that strengthen affordable housing. In total, Massachusetts CPA communities have supported the creation of 10,170 new affordable housing units and preserved 16,049 affordable housing units for a total of \$761,486,399 funds awarded⁸. A sample of projects similar in size and scope to SHA's proposed redevelopment include:

- The Commonwealth Avenue Project, Concord MA. In 2020, Habitat for Humanity of Greater Lowell in partnership with Concord Housing Authority received \$300,000 of local CPA funds for the construction of an affordable homeownership opportunity. The development consisted of a two-bedroom single family home located at 367 Commonwealth Avenue, Concord, MA and had a total project cost of \$350,000. The project was designed to be energy efficient and consistent with the design and scale of the neighborhood. CPA funds represent 86% of the total development costs. This initiative supported Concord's goal of incorporating affordable housing opportunities into the development of a Town-owned parcel⁹. The project broke ground in late 2022 and is slated to be completed soon¹⁰.
- The Mendes-Monteiro House, Dartmouth, MA. In June 2023, the Dartmouth Community Preservation Committee awarded \$500,000 for the construction of 10 units of subsidized rental housing for individuals over the age of 55 receiving services from the Department of Mental Health (DMH). Partners in Housing, Inc. will develop the project. Upon completion, it will be managed by Dartmouth Housing Authority, with services provided by DMH. The development will consist of one (1) four-bedroom congregate unit and six (6) one-bedroom units. The total development cost is estimated to be \$5,091,873. Partners in Housing will utilize private and state funding sources in addition to CPA funds¹¹.

⁵ Source: American Community Survey 2022

⁶ Source: Regional Housing Services Office, "Sudbury Has Diverse Housing Needs".

⁷ Source: Decennial Census 2020

⁸ Community Preservation Coalition.

⁹ Source: Town of Concord Community Preservation Committee.

¹⁰ Source: Habitat for Humanity of Greater Lowell.

¹¹ Dartmouth Community Preservation Committee.

Exhibit A: Sources and Uses - Sudbury HA 705 Duplexes updated 10/8/24); Used for: EOHLC PH Application Follow-Up Ouestions / CPA Application

	Date: 4/3/24 (notes updated 10/8/24); Used for: EOHLC PHI Application Follow-Up Questions / CPA Application	ed for: EOHLC PHI A	Application Follow-	Up Questions / CPA Ap	-1	
Sources Treed Poles	Construction	Permanent	Per Unit	Interest Rate Amor	Amortization Term	
Construction Loan (mixate)	1 202 086			0000		
Permanent Loan (private)	007,277	1,259,343	157,418	5.26%	40	20 2
Soft Debt						
HLC PHI SHA Sponsor Losn (Develonment Mitigation Funds)	1,180,458	1,200,000	150,000	0.00%		Awarded
Sudbury Community Preservation Act (Current request = \$450k)	1.100.000	1.100.000	137 500	0.00%		SHA has tunds
Green Energy Funding		100,000	12,500	0.00%		
Deferred Developer Fee		432,662	54,083	0.00%		
Total Sources	3,673,444	4,182,005	522,751			
Tises	Construction	Permanent	Per Unit De	Der CF Net Der CF	Dor CF Greece	
Acquisition	Tomon notice	T CI III GILLON			NOICE	
Land	0	0	0	0	0	
Building	0	0	0	0	0	
Hard/Direct Construction	000 351 6	000 201 0	000 170	7.00		
Demolition, abatement of bldgs, grading & earthwork	7,130,000	130.000	16,250	334 20	2/8 Assumes modular construction 17	
Sales Tax				3	•	
General Conditions	158,620	158,620	19,828	25	21	
General Admin	90,640	90,640	11,330	14	12	
Sold and Insurance	45,320	45,320	5,665	7	9	
Subtotal = Direct Construction Construction Continuency	72,060,580	128 029	320,0/3	400	333	
Subtotal	2.688.609	2.688.609	336.076	420	350	
Financing Fees						
Construction Loan Interest	20,762	27,588	3,448	4	4	
Origination Fees	14,855	14,855	1,857	5	2	
Lender Legal	25,000	25,000	3,125	4 ,	m	
Construction Interest	15,000	15.000	3,125	4 c	m c	
Subtotal	90,617	107,443	13.430	1 [-	1 2	
Other Costs/Fees/Contingency	110,00	C++, (01	05+50	1 / 1	14	
Architectural and Engineering	382,897	382,897	47,862	09	50	
Survey	10,000	20,000	2,500	e	3	
Permits	166'85	58,991	7,374	6	∞	
Clerk of the Works	67,200	67,200	8,400		6	
Environmental	10,000	10,000	1,250	2	_	
Legal	35,000	45,000	5,625	7	9	
Title	3,841	3,841	480	- 1	-	
Necolumb Accounting/Audit	14,867	14,86/	1,858	7	2	
Accounting Augus Marketing	5.000	2,500	515 625	o -	-	
Real Estate Taxes	1.726	1.726	216	. c		
Builder's Risk/Liability Insurance	53,772	53,772	6,722	> ∞	7 (
Relocation	13,160	13,160	1,645	2	2	
Owner's Representative	25,000	25,000	3,125	4	3	
Commissioning	5,000	5,000	625	1	1	
Soft Cost Contingency	35,961	35,961	4.495	9	\$ 5	
Subtotal	724,915	744,915	93,114	116		
Trees and Reserves	c	1000	,			
Operating Asserves Developer Fees	169,302	59,074 601,964	4,884 75,246	9 94	5 3-months of debt service and op. ex. 78 Less than 20% LIP maximum	. ex.
Subtotal	169,302	641,038	80,130	100	83	
Total Uses	3,673,444	4,182,005	522,751	653	545	

EXHIBIT B



Commonwealth of Massachusetts # City/Town of

	Facility Information Sudbury Housing Authority				
	Owner Name		*****		
	2 Beechwood Ave		Map F05, Lo	t 219	
	Street Address		Map/Lot #		
	Sudbury	MA	01776		
	City	State	Zip Code		
В.	Site Information				
1.	(Check one)	Jpgrade	epair		
2.	Soil Survey Available? ☐ Yes ☐ No	If yes:		NRCS Source	626B Soil Map Unit
	Merrimac Urban Land Complex	N/A		204.00	Con map office
	Soil Name	Soil Limitations			
	Stratfied gravel to gravelly sand	Outwash Terrac	e		
	Soil Parent material	Landform			
3.	Surficial Geological Report Available? Yes 1	No If yes:	2018/ Stone & Stone	Coarse De	posits
	Gravel, sand and gravel, and sand deposits		Year Published/Source	Map Unit	
	Description of Geologic Map Unit:				
			V 57 N-		
+.	Flood Rate Insurance Map Within a regula	tory floodway?	Yes 🛛 No		
5.	Within a velocity zone? ☐ Yes ☒ No				
		_	If yes, MassGIS Wetland D	ata Laver	
3.	Within a Mapped Wetland Area? Yes	⊠ No	ii yee, waaaala wellana b	rata Layer.	Wetland Type
7.	Current Water Resource Conditions (USGS):	11/21/2021 Month/Day/ Year	Range: 🛛	Above Normal	☐ Normal ☐ Below Normal
2	Other references reviewed:				



Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

C. On-	Site Rev	iew (minin	num of two hol	les requi	ired at eve	ry propo	sed prim	nary and r	eserve disp	osal area,)
Deep	Observation	n Hole Numb	oer: <u>3</u> Hole #	11/19/ Date		8:40 a		Sunny Weather		42.3939 Latitude	Longitude:
1. Land	Use Reside	ential	ural field, vacant lot,		Short Grass Vegetation	<u> </u>		None			0-2
			urai field, vacant lot, o	etc.)	Vegetation			Surface Stone	es (e.g., cobbles,	stones, boulde	rs, etc.) Slope (%)
2. Soil F	arent Materia	al: Glacial C	outwash			utwash Te	errace	<u>SU</u>	tion on Landscap	on (CII CH DC	EC TO
3. Dista	nces from:	Ope	n Water Body	<u>>200</u> feet				/ay <u>>200</u> fe			tlands <u>>100</u> feet
			Property Line	>10 feet		Drinkin	g Water W	/ell <u>>100</u> fe	eet		Other feet
4. Unsuita	able Material	s Present: 🗵	Yes 🗌 No	If Yes:] Disturbed S	Soil 🛛	Fill Material	<u> </u>	Weathered/Fra	ctured Rock	Bedrock
5. Grour	ndwater Obse	rved: Yes	s ⊠ No		If yes	s:	Depth Wee	ping from Pit		Depth S	standing Water in Hole
						Soil Log					
Depth (in)	Soil Horizon	Soil Texture	Soil Matrix: Color-	Redo	ximorphic Fea	itures		ragments Volume	Soil Structure	Soil Consistence	Other
	/Layer	(USDA	Moist (Munsell)	Depth	Color	Percent	Gravel	Cobbles & Stones	oon Guadiane	(Moist)	- Cilici
0-18	Fill	SL							granular	friable	
18-24	Ab	SL	10YR2/2						granular	firable	
24-38	Bw	LS	10YR4/6						massive	loose	
38-84+	С	S	2.5Y5/6				10-15	0-5	massive	loose	Coarse Sand
Additio	onal Notes:			ıl.		ı					

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C. On-S	Site Rev	iew (minin	num of two	holes r	equired	l at every p	proposed	primary and	l reserve dis	posal area)	
Deep	Observatio	n Hole Num	ber: 2 Hole #	1	1/19/21 ate	8:55 am		Sunny Veather	42.394	6	71.4534
	Pos	sidetial	Hole #	D					Latitude		Longitude:
i. Land l			ricultural field, va	cant lot, etc	<u> </u>	Short Grass Vegetation		None Surface Sto	nes/ea cobbles	stones, boulders,	etc.) 0-2 Slope (%)
Descri	iption of Loc	· -	Front yard of			•					
. Soil Pa	arent Materia	al: Glacial	Outwash				Outwash Landform	Terrace		SU Position on Land	scape (SU, SH, BS, FS, TS
3. Distan	ces from:	Open Wate	er Body <u>>20</u>	n feet		Drain		>200 feet	\/\atla	ands <u>>100</u> fee	
			ty Line >10					>100 feet		ther fe	
	s Present: [☐ Yes 🏻	No If Yes:	☐ Distu	rbed Soil	☐ Fill Mat	erial	☐ Weathered	Fractured Rock	Bedrock	Standing Water in Hole
						So	il Log				
Depth (in)	th (in) Soil Horizon Soil Texture Soil Matrix: Redoximorpi		kimorphic	Features		Fragments y Volume	Soil Structure	Soil Consistence	Other		
,	/Layer	(USDA)	(Munsell)	Depth	Color	Percent	Gravel	Cobbles & Stones	Son Structure	(Moist)	
0-14	Ар	SL	10YR2/2						granualar	friable	
14-38	Bw	LS	10YR4/6						massive	loose	
38-84	С	s	2.5Y5/6				10-15	0-5	massive	loose	Coarse Sand
34-104"+	2C	s	2.5Y6/4				0-5		massive	loose	Fine Sand
Additio	nal Notes:				A-11-1			1			



D. Determination of High Groundwater Elevation	on		
1. Method Used:	Obs. Hole #	Obs. Hole #	
☐ Depth observed standing water in observation hole	inches	inches	
Depth weeping from side of observation hole	inches	inches	
☐ Depth to soil redoximorphic features (mottles)	inches	inches	
☐ Depth to adjusted seasonal high groundwater (S _h) (USGS methodology)	inches	inches	
Index Well Number Reading Date			•
$S_h = S_c - [S_r \times (OW_c - OW_{max})/OW_r]$			
Obs. Hole/Well# S _c S _r	OW₀	OW _{max} OW _r	_ S _h
2. Estimated Depth to High Groundwater: 104 inches			
E. Depth of Pervious Material			
Depth of Naturally Occurring Pervious Material			
 a. Does at least four feet of naturally occurring pervious material system? 	exist in all areas observe	ed throughout the area proposed fo	r the soil absorption
⊠ Yes □ No			
 b. If yes, at what depth was it observed (exclude A and O Horizons)? 	Upper boundary:	18 Lower boundary:	104
c. If no, at what depth was impervious material observed?	Upper boundary:	Lower boundary:	IIIGIes
		inches	inches



F. Certification

I certify that I am currently approved by the Department of Environmental Protection pursuant to 310 CMR 15.017 to conduct soil evaluations and that the above analysis has been performed by me consistent with the required training, expertise and experience described in 310 CMR 15.017. I further certify that the results of my soil evaluation, as indicated in the attached Soil Evaluation Form, are accurate and in accordance with 310 CMR 15.100 through 15.107.

	11/22/21
Signature of Soil Evaluator	Date
Russell Tedford / SE#14372	7/1/2022
Typed or Printed Name of Soil Evaluator / License #	Expiration Date of License
Robert Lazo	Sudbury Health Department
Name of Approving Authority Witness	Approving Authority

Note: In accordance with 310 CMR 15.018(2) this form must be submitted to the approving authority within 60 days of the date of field testing, and to the designer and the property owner with <u>Percolation Test Form 12</u>.

Field Diagrams: Use this area for field diagrams:



Commonwealth of Massachusetts City/Town of Percolation Test Form 12

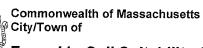
A. Site Information

Percolation test results must be submitted with the Soil Suitability Assessment for On-site Sewage Disposal. DEP has provided this form for use by local Boards of Health. Other forms may be used, but the information must be substantially the same as that provided here. Before using this form, check with the local Board of Health to determine the form they use.

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



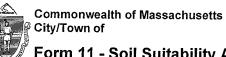
2 Beechwood Avenue				
Street Address or Lot#				
Sudbury		MA		776
City/Town		State	Zip	Code
		978-443-51112		
Contact Person (if different from Owner)		Telephone Number		
Test Results				
	11/19/21	10:05 am		
	Date	Time	Date	Time
Observation Hole #	3			
Observation Flore #				
Depth of Perc	48"			
Start Pre-Soak	9:05am			
End Pre-Soak	Did Not Prep			
Time at 12"				
Time at 9"			B	1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N
Time at 6"				
Time (9"-6")				
Rate (Min./Inch)	< 2			
	Test Passed: Test Failed:		Test Passed Test Failed:	f: 🔲
Russell Tedford				
Test Performed By:				
Robert Lazo Board of Health Witness	, ANGLANDA A			
Comments:				
25 gallons of water poured into P-	0 411 4 11	. 400.1		



A	. Facility Information	4				
	Sudbury Housing Authority					
	Owner Name					
	8 Oakwood Ave		Map F04, Lot 30)2		
	Street Address		Map/Lot#			
	Sudbury City	MA State	01776			
	City	State	Zip Code			
В.	Site Information					
1.	(Check one) ☐ New Construction ☐ Up	grade 🗌 Repair				
2.	Soil Survey Available? Yes No	If yes:		NRCS Source		26B oil Map Unit
	Merrimac Urban Land Complex	N/A		554.55	v	on map of the
	Soil Name	Soil Limitations				
	Stratfied gravel to gravelly sand	Outwash Terrace				
_	Soil Parent material	Landform				
3.	Surficial Geological Report Available? Yes No			Coarse Dep	osits	
	Gravel, sand and gravel, and sand deposits	Year Publishe	ed/Source	Map Unit		
	Description of Geologic Map Unit:					
4.	Flood Rate Insurance Map Within a regulator	y floodway? 🔲 Yes 🛛 N	No			
5.	Within a velocity zone?					
6.	Within a Mapped Wetland Area? ☐ Yes ☒	No If yes, Mas	sGIS Wetland Data	Layer:	18/-H	
7.	Current Water Resource Conditions (USGS):	11/21/2021	Range: 🛛 Abo	we Normal	Wetland Type Normal	☐ Below Normal
	tarion valor ricodardo Conditiono (CCCO).	Month/Day/ Year	range. M Abt	ove ivolillai	☐ Normal	☐ Delow Normal
8.	Other references reviewed:					



	Observation	n Hole Numb	per: 1	11/19/	21	8:00 a	m	Sunny		42.3946		71.4534
			Hole #	Date		Time		Weather		Latitude		Longitude:
1. Land	Use Reside	ential	ural field, vacant lot,	ata \	Short Grass	<u> </u>		None Stone	es (e.g., cobbles,	etonos haulder	re etc.)	0-2 Slope (%)
	(o.g., w		urar neiu, vacam lot, i					Surface storie	ss (e.g., coppies,	stories, boulder	13, 610.	Glope (70)
	•											
2. Soil F	Parent Materia	al: <u>Glacial C</u>	outwash		<u> </u>	utwash Te	errace	SU	tion on Landscap	- CUL CU DC	FC TC)	
) Diete	noon from.	^	- 14/-4 D-d-	200								
. Dista	nces from:	•	n Water Body									<u>>100</u> feet
			Property Line					Vell <u>>100</u> fe				feet
. Unsuit	able Material	s Present: 🗵	Yes 🗌 No	If Yes:		Boil ⊠	Fill Material	Ι	Weathered/Fra	ctured Rock	∐ Be	drock
. Grou	ndwater Obse	erved: Yes	s 🛭 No		If yes	s:	Depth Wee	pina from Pit	_	Depth S	itandino V	Vater in Hole
			_		•	Soil Log		ping noint it	_			
			T	Bode	ximorphic Fea		Coarse I	Fragments		Soil		
Depth (in)	Soil Horizon /Layer	Soil Texture (USDA	Soil Matrix: Color- Moist (Munsell)	l	·	Τ		Volume Cobbles &	Soil Structure	Consistence		Other
		,		Depth	Color	Percent	Gravel	Stones		(Moist)		
0-28	Fill	SL							granular	friable		
									<u> </u>			
28-31	Ab	SL	10YR2/2						granular	firable		
31-42	Bw	LS	10YR4/6				0-5		massive	loose		
01-72	DW		1011(4/0		***************************************		0-5		IIIassive	10030		
	С	s	2.5Y6/4				0-5		massive	loose		
42-110+												
42-110+				!!				I	j		1	
42-110+								1				
42-110+												
42-110+ 												



Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

Боор	Observatio	n Hole Num	ber: <u>2</u> Hole #	1	1/19/21 ate	8:20 am	<u>S</u>	unny /eather	42.394 Latitude		71.4534							
1 1	Re:	sidetial	110,0 #	0.		Short Grass		None	Lautuge		Longitude: 0-2							
. Land	Use: (e.g	., woodland, agr	ricultural field, va	acant lot, etc		Vegetation			nes (e.g., cobbles,									
Descri	iption of Loc	ation:	Front yard of	residence o	of #8 Oakw	ood Ave												
Soil Pa	Soil Parent Material: Glacial Outwash						Outwash Landform	Terrace		SU Position on Lands	scape (SU, SH, BS, FS, TS							
. Distan	ces from:	Open Wate	er Body <u>>20</u>	0 feet		Drair		>200 feet	Wetla	ands >100 feet								
		Proper	ty Line >10	feet		Drinking W			Of	her fee	at .							
	s Present: [No If Yes: es ⊠ No	☐ Distu	rbed Soil				Fractured Rock g from Pit	_	itanding Water in Hole							
						So	il Log											
Depth (in)		Soil Horizon /Layer						Soil Texture (USDA)		Soil Matrix: Color-Moist	Redoximorphic		Features		Fragments y Volume	Soil Structure	Soil	Other
	/Layer	(USDA)	(Munsell)	Depth	Color	Percent	Gravel	Cobbles & Stones	3011 Structure	ure Consistence (Moist)	Other							
0-14	Ар	SL	10YR2/2						granualar	friable								
14-34	Bw	LS	10YR4/6						massive	loose								
34-112+	С	S	2.5Y6/4						massive	loose								
							-	+										
		ļ																

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D.	Determination of High Groundwater Elevation					
1.	Method Used:	Obs. Hole #	(Obs. Hole #		
	☐ Depth observed standing water in observation hole	inches	_	inches		
	☐ Depth weeping from side of observation hole	inches	_	inches		
	☐ Depth to soil redoximorphic features (mottles)	inches	_	inches		
	☐ Depth to adjusted seasonal high groundwater (Sh) (USGS methodology)	inches	-	inches		
	Index Well Number Reading Date			-		
	$S_h = S_c - [S_r \times (OW_c - OW_{max})/OW_r]$					
	Obs. Hole/Well# Sc Sr	OW _c	OW _{max}	OWr	Sh	
2. E	stimated Depth to High Groundwater: <u>110</u> inches					
Ξ.	Depth of Pervious Material					
١.	Depth of Naturally Occurring Pervious Material					
	 Does at least four feet of naturally occurring pervious material exis system? 	st in all areas observed	throughou	t the area proposed for	the soil absorption	
	⊠ Yes ☐ No					
	b. If yes, at what depth was it observed (exclude A and O Horizons)?	Upper boundary:	42 inches	Lower boundary:	110 inches	
	c. If no, at what depth was impervious material observed?	Upper boundary:		Lower boundary:		
			inches		inches	



Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

F. Certification

I certify that I am currently approved by the Department of Environmental Protection pursuant to 310 CMR 15.017 to conduct soil evaluations and that the above analysis has been performed by me consistent with the required training, expertise and experience described in 310 CMR 15.017. I further certify that the results of my soil evaluation, as indicated in the attached Soil Evaluation Form, are accurate and in accordance with 310 CMR 15.100 through 15.107.

	11/22/21
Signature of Soil Evaluator	Date
Russell Tedford / SE#14372	7/1/2022
Typed or Printed Name of Soil Evaluator / License #	Expiration Date of License
Robert Lazo	Sudbury Health Department
Name of Approving Authority Witness	Approving Authority

Note: In accordance with 310 CMR 15.018(2) this form must be submitted to the approving authority within 60 days of the date of field testing, and to the designer and the property owner with <u>Percolation Test Form 12</u>.

Field Diagrams: Use this area for field diagrams:



Commonwealth of Massachusetts City/Town of Percolation Test Form 12

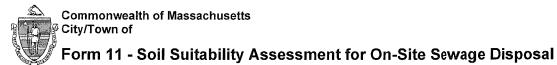
Percolation test results must be submitted with the Soil Suitability Assessment for On-site Sewage Disposal. DEP has provided this form for use by local Boards of Health. Other forms may be used, but the information must be substantially the same as that provided here. Before using this form, check with the local Board of Health to determine the form they use. **A. Site Information**

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





Sudbury Housing Department				
Owner Name				
8 Oakwood Avenue				
Street Address or Lot #		and the second to the second t	···	
Sudbury		MA	01776	3
City/Town		State	Zip Coo	de
		978-443-51112		
Contact Person (if different from Owne	r)	Telephone Number		
. Test Results				
	11/19/21	9:30 am		
	Date	Time	Date	Time
Observation Hole #	1			
	52"			
Depth of Perc				
Start Pre-Soak	9:45am			
End Pre-Soak	Did Not Prep			
Time at 12"	***************************************			
Time at 9"				
Time at 6"				
Time (9"-6")	V			1.1
Rate (Min./Inch)	< 2			
	Test Passed: Test Failed:		Test Passed: Test Failed:	
Russell Tedford				
Test Performed By:				
Robert Lazo				
Board of Health Witness				
Comments:				



	Sudbury Housing Authority				
	Owner Name				
	9 Richard Ave Street Address		Map G06, Lot 55	8	
		MA	Map/Lot # 01776		
		State	Zip Code		
В.	. Site Information				
1.	(Check one)	rade 🗌 Repair			
2.	Soil Survey Available? 🛛 Yes 🔲 No	If yes:		NRCS Source	255B Soil Map Unit
	Windsor Loamy Sand	N/A		Source	Son wap one
	Soil Name	Soil Limitations			
	Loose Sandy glacioflutvial deposits	Outwash Plain			
	Soil Parent material	Landform			
3.	Surficial Geological Report Available? Yes No	If yes: 2018/ Stone Year Published/		Coarse Dep	posits
	Gravel, sand and gravel, and sand deposits Description of Geologic Map Unit:				
4.	Flood Rate Insurance Map Within a regulatory	r floodway? ☐ Yes ☒ No			
5.	Within a velocity zone?				
3.	Within a Mapped Wetland Area?	No If yes, Mass	GIS Wetland Data	Layer:	Wetland Type
7.		11/21/2021 Month/Day/ Year	Range: 🛛 Abo	ve Normal	☐ Normal ☐ Below Normal
3.	Other references reviewed: Located in	n a IWPA Zone II according to Ma	ssGIS Oliver Onin	e Maps	



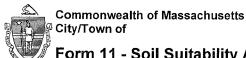
Deep	Observation	n Hole Numb	oer: <u>7</u>	11/19/	21	1:30m	1	Sunny		42.3894	71.4374
Hole # Residential (e.g., woodland, agricultural field, vacant k				Date Time				Weather None Surface Stones (e.g., cobbles			Longitude: 0-2
De											
. Soil F	arent Materia	al: Glacial C	Outwash			outwash Pl	lain	BS Posi	tion on Landscap	oe (SU, SH, BS	, FS, TS)
. Distar	ices from:		n Water Body Property Line					Vay <u>>200</u> fo Vell <u>>100</u> fo	et .	We	etlands <u>>100</u> feet Other feet
. Unsuita	ble Material		Yes No								
. Grour	dwater Obse	erved: Yes	s 🛛 No		If ye	s: <u>96"</u> De Soil Log		g from Pit	-	Depth S	Standing Water in Hole
Depth (in)	Soil Horizon /Layer	Soil Texture (USDA	Soil Matrix: Color- Moist (Munsell)	Redo Depth	ximorphic Fe	<u> </u>	Coarse	Fragments Volume Cobbles &	Soil Structure	Soil Consistence (Moist)	Other
0-14	Ар	SL	10YR2/2					Stones	granular	friable	
14-24	Bw	LS	10YR4/6						granular	firable	
24-104+	С	S	2.5Y6/4				0-5		massive	loose	Fine Sand
			j j			1 1					



C. On-Site Review (minimum of two holes required at every proposed primary and reserve disposal area) Deep Observation Hole Number: 11/19/21 2:00 pm Sunny 42.3946 71.4534 Longitude: 0-2 Residetial **Short Grass** None 1. Land Use: Surface Stones (e.g., cobbles, stones, boulders, etc.) (e.g., woodland, agricultural field, vacant lot, etc.) Slope (%) Vegetation Rear yard of residence of #9 Richard Ave. Description of Location: Glacial Outwash Outwash Plain 2. Soil Parent Material: Position on Landscape (SU, SH, BS, FS, TS) 3. Distances from: Open Water Body >200 feet Drainage Way >200 feet Wetlands >100 feet Property Line >10 feet Drinking Water Well >100 feet Other ____ feet 4. Unsuitable Materials Present: ☐ Yes ☒ No If Yes: ☐ Disturbed Soil Fill Material ☐ Weathered/Fractured Rock ☐ Bedrock 5. Groundwater Observed: ☐ Yes __ Depth Weeping from Pit _ Depth Standing Water in Hole ⊠ No If yes: Soil Log Coarse Fragments % by Volume Redoximorphic Features Soil Soil Horizon Soil Texture Soil Matrix: Depth (in) Other Soil Structure Consistence Color-Moist /Layer (USDA) Cobbles & (Moist) Depth Color Percent Gravel (Munsell) Stones 0-9 SL 10YR2/2 friable Αp granualar 9-24 Bw LS 10YR4/6 massive loose 24-98+ С S 2.5Y5/6 10R5/8 60 0-5 massive loose Fine Sand Additional Notes:



D	. Determination of High Groundwater Eleva	ation		
1.	Method Used: ☐ Depth observed standing water in observation hole	Obs. Hole #7_	Obs. Hole # <u>8</u> inches	
	bepair observed standing water in observation note	inches	Inches	
	☐ Depth weeping from side of observation hole	96 inches	inches	
	□ Depth to soil redoximorphic features (mottles)	inches	60 inches	
	☐ Depth to adjusted seasonal high groundwater (Sh) (USGS methodology)	inches	inches	
	Index Well Number Reading Date	e		
	$S_h = S_c - [S_r \times (OW_c - OW_{max})/OW_r]$			
	Obs. Hole/Well# S _c S _r	OW _c O	OW _{max} OW _r	Sh
2.	Estimated Depth to High Groundwater: 60 inches			
Ε.	Depth of Pervious Material	18767-21.		
1.	Depth of Naturally Occurring Pervious Material			
	a. Does at least four feet of naturally occurring pervious mate system?	erial exist in all areas observed th	hroughout the area proposed for	the soil absorption
	⊠ Yes □ No			
	b. If yes, at what depth was it observed (exclude A and O Horizons)?		Lower boundary:	104 inches
	c. If no, at what depth was impervious material observed?	Upper boundary: in	Lower boundary:	inches



Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

F. Certification

I certify that I am currently approved by the Department of Environmental Protection pursuant to 310 CMR 15.017 to conduct soil evaluations and that the above analysis has been performed by me consistent with the required training, expertise and experience described in 310 CMR 15.017. I further certify that the results of my soil evaluation, as indicated in the attached Soil Evaluation Form, are accurate and in accordance with 310 CMR 15.100 through 15.107.

	11/22/21
Signature of Soil Evaluator	Date
Russell Tedford / SE#14372	7/1/2022
Typed or Printed Name of Soil Evaluator / License #	Expiration Date of License
Robert Lazo	Sudbury Health Department
Name of Approving Authority Witness	Approving Authority

Note: In accordance with 310 CMR 15.018(2) this form must be submitted to the approving authority within 60 days of the date of field testing, and to the designer and the property owner with Percolation Test Form 12.

Field Diagrams: Use this area for field diagrams:



Commonwealth of Massachusetts City/Town of Percolation Test Form 12

Percolation test results must be submitted with the Soil Suitability Assessment for On-site Sewage Disposal. DEP has provided this form for use by local Boards of Health. Other forms may be used, but the information must be substantially the same as that provided here. Before using this form, check with the local Board of Health to determine the form they use.

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





Sudbury Housing Department				
Owner Name				
9 Richard Avenue	- March 2011			
Street Address or Lot #				
Sudbury		MA	01776	
City/Town		State	Zip Coo	ie
05.055		978-443-51112		
Contact Person (if different from Owner)		Telephone Number		
Test Results				
	11/19/21	1:50 am		
	Date	Time	Date	Time
	7			
Observation Hole #	·		All and a second	100
Donth of Boro	38"			
Depth of Perc				
Start Pre-Soak	1:53			
Ctart i 10-00ak				
End Pre-Soak	2:08			
	2.00			
Time at 12"	2:08		,	
	2:09			
Time at 9"	2.00			
	2:11			
Time at 6"				
Ti (0" 0")	2 minutes			
Time (9"-6")				
Rate (Min./Inch)	< 2			
rate (will./IIICII)				
	Test Passed:		Test Passed:	
- "- "	Test Failed:		Test Failed:	
Russell Tedford				
Test Performed By:				
Robert Lazo Board of Health Witness				
Doard of Health vyithess				
Comments:				



Α.	Facility Information			
	Sudbury Housing Authority			
	Owner Name			
	21 Great Lakes Road Street Address		Map F04, Lot 601	
		MA	Map/Lot # 01776	
		State	Zip Code	
<u>В</u> .	Site Information			
1.	(Check one)	rade 🗌 Repair		
2.	Soil Survey Available? ⊠ Yes □ No	If yes:	NRCS Source	626B Soil Map Unit
	Merrimac Urban Land Complex Soil Name	N/A Soil Limitations		
	Stratfied gravel to gravelly sand	Outwash Terrace		
3.	Soil Parent material Surficial Geological Report Available? Yes No	Landform If yes: 2018/ Stone	& Stone Coarse De	anneite
J.	Sufficial Geological Report Available? [1 res [140	Year Published/		posits
	Gravel, sand and gravel, and sand deposits Description of Geologic Map Unit:			
4.	Flood Rate Insurance Map Within a regulatory	floodway?		
5.	Within a velocity zone?			
6.	Within a Mapped Wetland Area? ☐ Yes ☒ I	No If yes, Mass	GIS Wetland Data Layer:	Wetland Type
		11/21/2021	Range: Above Normal	☐ Normal ☐ Below Norma
0	Other references reviewed:	Month/Day/ Year	•	
э.	Other releterices reviewed.			



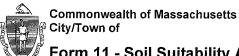
Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

C. On-	Site Revi	ew (minim	um of two hole	es requi	red at eve	ery propo	sed prin	nary and r	eserve disp	osal area))
Deep Observation Hole Number: 5 Hole #		11/19/21 10:25 a				Sunny Weather		42.3940 Latitude	Longitude:		
1. Land Use Residential (e.g., woodland, agricultural field, vacant lot				oto \	Short Gras Vegetation	s		None Surface Stone	s (e.g., cobbles,	stones boulde	0-2 rs, etc.) Slope (%)
De	scription of Lo	ocation:	urai ileiu, vacani ioi, e	eic.)				Ourrace Otoric		0.07.00, 500.00	
2. Soil F	arent Materia	al: Glacial O	utwash			Outwash Te	errace	SU Posi	tion on Landscar	oe (SU, SH, BS	FS, TS)
3. Distai	nces from:	Oper	n Water Body	>200 feet			rainage V	√ay <u>>200</u> fe			tlands <u>>100</u> feet
4. Unsuita	able Material		Property Line				-				Other feet Bedrock
5. Grour	ndwater Obse	erved: Yes	s ⊠ No		If y∈	es: Soil Log	-	ping from Pit	-	Depth S	standing Water in Hole
Donth (in) Soil Horizon Soil Texture Soil Matrix: Color-				Redo				Coarse Fragments % by Volume Soil Structure		Soil Consistence	Other
Борин (ии)	/Layer	(USDA	Moist (Munsell)	Depth	Color	Percent	Gravel	Cobbles & Stones		(Moist)	
0-14	Ар	SL	10YR2/2						granular	friable	
14-34	Bw	LS	10YR4/6						granular	firable	
34-84	C	S	2.5Y5/6				10-15	0-5	massive	loose	Coarse Sand
84-112+	2C	S	2.5Y6/4				0-5		massive	loose	Fine Sand
		-									
Additi	onal Notes:	l	L	1		-1	I	I			

Form 11 – Soil Suitability Assessment for On-Site Sewage Disposal $\, \cdot \,$ Page 2 of 5



C. On-S	Site Rev	iew (minin	num of two	holes re	equirea	at every p	roposed	primary and	reserve dis _i	posal area)	
Deep	Observatio	n Hole Num	ber: <u>6</u> Hole#	1 Da	1/19/21 ate	10:50 am	<u>\$</u>	Sunny Veather	42.3940 Latitude	6	71.4534 Longitude:
4 1 1 1 1 1	Res	sidetial				Short Grass		None			0-2
1. Land l	Jse: (e.g.	, woodland, agr	icultural field, va	cant lot, etc	.)	Vegetation		Surface Sto	nes (e.g., cobbles,	stones, boulders,	etc.) Slope (%)
Description of Location: Front yard of residence of #21 Great Lakes Road											
2. Soil Parent Material: Glacial Outwash							Outwash Landform	Terrace	<u></u>	SU Position on Land	scape (SU, SH, BS, FS, TS)
3. Distan	ces from:	Open Wate	r Body <u>>20</u>	0 feet		Drain	age Way	<u>≥200</u> feet	Wetla	nds <u>>100</u> fee	et
		Proper	ty Line <u>>10</u>	feet		Drinking W	/ater Well	<u>≥100</u> feet	Ot	her fe	eet
 Unsuital Material 		□ Yes 🖂	No If Yes:	☐ Distu	rbed Soil	☐ Fill Mat	erial	☐ Weathered/	Fractured Rock	☐ Bedrock	
	-		s 🛭 No				fyes:	Depth Weepin	g from Pit	Depth	Standing Water in Hole
						So	il Log				
Depth (in)	Soil Horizon /Layer	Soil Texture (USDA)	Soil Matrix:	Redo	cimorphic	Features		e Fragments y Volume	Soil Structure	Soil Consistence	Other
			Color-Moist (Munsell)	Depth	Color	or Percent Gravel Cobbles & Stones		(Moist)			
0-13	Ар	SL	10YR2/2						granualar	friable	
13-34	Bw	LS	10YR4/6						massive	loose	
34-84	С	S	2.5Y5/6				10-15	0-5	massive	loose	Coarse Sand
84-110+	2C	S	2.5Y6/4				0-5		massive	loose	Fine Sand
Additio	nal Notes:		!	<u>. </u>	•			l			



Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal D. Determination of High Groundwater Flevation

D. D	D. Determination of Figir Groundwater Elevation						
1. M	ethod Used:	Obs. Hole #	Ot	os. Hole #			
	Depth observed standing water in observation hole	inches	_	inches			
	Depth weeping from side of observation hole	inches		inches			
	Depth to soil redoximorphic features (mottles)	inches	_	inches			
	Depth to adjusted seasonal high groundwater (S_h) (USGS methodology)	inches		inches			
	Index Well Number Reading Date						
	$S_h = S_c - [S_r \times (OW_c - OW_{max})/OW_r]$						
	Obs. Hole/Well# S _c S _r	OW _c	OW _{max}	OWr	_ Sh		
	mated Depth to High Groundwater: 112 inches epth of Pervious Material						
	epth of Naturally Occurring Pervious Material						
a.	a. Does at least four feet of naturally occurring pervious material exist in all areas observed throughout the area proposed for the soil absorption system?						
	⊠ Yes ☐ No						
	If yes, at what depth was it observed (exclude A and O prizons)?	Upper boundary:	13 inches	Lower boundary:	112		
C.	If no, at what depth was impervious material observed?	Upper boundary:	1110169	Lower boundary:	110169		
			inches		inches		



Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

F. Certification

I certify that I am currently approved by the Department of Environmental Protection pursuant to 310 CMR 15.017 to conduct soil evaluations and that the above analysis has been performed by me consistent with the required training, expertise and experience described in 310 CMR 15.017. I further certify that the results of my soil evaluation, as indicated in the attached Soil Evaluation Form, are accurate and in accordance with 310 CMR 15.100 through 15.107.

	11/22/21
Signature of Soil Evaluator	Date
Russell Tedford / SE#14372	7/1/2022
Typed or Printed Name of Soil Evaluator / License #	Expiration Date of License
Robert Lazo	Sudbury Health Department
Name of Approving Authority Witness	Approving Authority

Note: In accordance with 310 CMR 15.018(2) this form must be submitted to the approving authority within 60 days of the date of field testing, and to the designer and the property owner with <u>Percolation Test Form 12</u>.

Field Diagrams: Use this area for field diagrams:



Commonwealth of Massachusetts City/Town of **Percolation Test** Form 12

Percolation test results must be submitted with the Soil Suitability Assessment for On-site Sewage Disposal. DEP has provided this form for use by local Boards of Health. Other forms may be used, but the information must be substantially the same as that provided here. Before using this form, check with the local Board of Health to determine the form they use.

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



* V	
	14 A
1	
return	
V	

Sudbury Housing Department Owner Name						
Street Address or Lot #						
Sudbury City/Town		MA State	01776 Zip Cod			
City/Town		978-443-51112	Zip Coc	ie		
Contact Person (if different from Owner)		Telephone Number				
Test Results		•				
	11/19/21	11:05 am				
	Date	Time	Date	Time		
Observation Hole #	See Comments	3				
Depth of Perc	Mark about the second s					
Start Pre-Soak						
End Pre-Soak						
Time at 12"						
Time at 9"						
Time at 6"				• •		
Time (9"-6")						
Rate (Min./Inch)	< 2					
	Test Passed: Test Failed:		Test Passed: Test Failed:			
Russell Tedford						
Test Performed By:						
Robert Lazo Board of Health Witness			at the Village To Table To Tab			
Comments:						



Town of Sudbury

Planning & Community Development Department

Adam R. Burney, MPA, Director

Flynn Building 278 Old Sudbury Road Sudbury, MA 01776 978-639-3387 Fax : 978-639-3314

www.sudbury.ma.us/pcd BurneyA@sudbury.ma.us

30 January 2024

Ben Stone, Director, Division of Public Housing & Acting Director, Division of Rental Assistance Executive Office of Housing and Livable Communities (EOHLC) 100 Cambridge Street, Suite 300 Boston, MA 02114

Re: Support for the SHA Redevelopment of Single-Family Homes

Dear Director Stone,

This letter is to confirm support from the Town of Sudbury Planning & Community Development Department for the Sudbury Housing Authority's (SHA) application for EOHLC Public Housing Innovations funds for the Redevelopment of Single-Family Homes, 21 Great Lake Drive, 8 Oakwood Ave, 2 Beechwood Ave and 9 Richard Ave which are all within the state's Chapter 705 public housing program.

The Redevelopment of Single-Family Homes is a meaningful effort to modernize and increase affordable rental housing opportunities in our community. The existing deeply affordable units are in need of significant repairs to meet the needs of SHA's residents. The project also represents an opportunity to enhance sustainability and resilience in the neighborhood.

The Planning & Community Development Department met with SHA in January 2024 to receive a briefing on the Redevelopment project. It is our understanding that implementation of the project requires dimensional zoning relief. Our judgement is that there is a realistic and timely path to the required zoning relief in 2024, particularly through a Comprehensive Permit as part of the Local Initiative Program process.

It is my understanding that Public Housing Innovation funding from EOHLC is critical to the feasibility of the Redevelopment of Single-Family Homes. Thank you for your time and consideration of SHA's application.

Sincerely,

Adam Burney, MPA

Director of Planning & Community Development, Town of Sudbury

Cc: Sheila M Cusolito, SHA

Exhibit D: Schedule

Exhibit B. Schedule				
Period	Project Milestone			
Feb-24	Resident and Community Outreach Begins			
Apr-24	SHA presented to the Select Board for approval of PILOT continuation			
Oct-24	Interim Conveyance for Chapter 149/149A Relief			
	Issue RFP for Designer Selection			
Dec-24	Selection of Architect			
	Begin GC Procurement and Selection Process			
Jan-25	Architect begins Concept/Schematic Design Phase			
	Community Engagement Meetings			
	GC Selected			
Apr-25	Submission of LIP Application			
	Architect completes Schematic Design and begins Design Development			
Jun-25	Architect completes Design Development			
	EOHLC approval of LIP application			
	Apply to the Sudbury Zoning Board of Appeals for a Comprehensive Permit			
Jul-25	Architect begins Construction Documents			
	Issue RFP for Debt Partner			
Oct-25	Building Permits Issued			
	Close on Construction Financing			
Nov-25	Begin Construction			
Nov-26	Construction Completion			

EXHIBIT E



Commonwealth of Massachusetts

EXECUTIVE OFFICE OF HOUSING & LIVABLE COMMUNITIES

Maura T. Healey, Governor ◆ Kimberley Driscoll, Lieutenant Governor ◆ Edward M. Augustus Jr., Secretary

July 30, 2024

Tatiana Vitvitsky, Chairperson Sudbury Housing Authority Musketahquid Village 55 Hudson Road Sudbury, MA 01776

Re: Award of Public Housing Innovation (PHI) Funds for 4 scattered sites in Sudbury

Dear Chair Vitvitsky:

On behalf of EOHLC, I am pleased to award the Sudbury Housing Authority (SHA) a \$1,200,000 capital grant and four (4) project-based Massachusetts Rental Voucher Program (MRVP) vouchers at 100% large-area Fair Market Rent¹ (FMR) in response to your application to the <u>Public Housing Innovations 2024</u>

Notice of Funding Availability. The capital grant is from funding authorized by Chapter 99 of the Acts of 2018, item 7004-0055 and/or successor housing bond legislation (collectively the "Act"), known as the Public Housing Innovations Demonstration Program (PHIDP). This innovative program provides awards that fund rehabilitation and redevelopment of state-aided public housing, using creative methods including, but not limited to, mixed-income redevelopment including market-rate production, alternate funding sources with new management or capital structures potentially including affordable housing production, or conversion to federal public housing. The goal of the program is to develop and promote innovative and cost-effective means of modernizing public housing and preserving it for the long term while reducing or eliminating the need for future state-funded capital and/or operating subsidies for the development.

Your submitted project seeks to achieve this goal. The PHI 2024 award will fund demolition and replacement of 4 state-aided chapter 705 single family public housing units located at 21 Great Lake Drive, 8 Oakwood Ave., 2 Beechwood Ave. and 9 Richard Ave. This award will support the construction of modern duplex units to replace each of the 4 units of family housing at the chapter 705 sites named above. The specific scope of development items will be confirmed and approved upon review by EOHLC's Bureau of Housing Development and Construction. EOHLC will provide project-based MRVP's to support debt and operating costs for the 4 net-new units.

After redevelopment all 4 chapter 705 units will exit the state-aided public housing program and be converted into local housing units. These units will no longer follow the state's public housing regulations in CMR 760 4,5,6, or 11. These units will have income-based rents, with n affordable housing deed restriction restricting tenant eligibility to those earning no more than 50% Area Median Income (AMI) at initial occupancy. Housheholds may remain in these units until their income exceeds 80% of AMI. These units will no longer receive operating or capital subsides from EOHLC.

SHA will submit a request to EOHLC for an interim conveyance to an SHA-owned LLC per <u>Public Housing</u> <u>Notice 2023-04</u> to access public procurement relief. SHA or an affiliate will have long-term ownership of

¹ Boston-Cambridge-Quincy, MA-NH HUD Metro FMR Area

the properties. SHA will work to obtain written confirmation that the existing PILOT will extend to redevelopment.

Estimated Project Total Development Cost (TDC)	\$3,650,685	
PHI 2024 NOFA Award	\$1,200,000	
Other Sources Development Partner	 Construction Loan - \$1,242,376 Permanent Loan - \$1,218,100 SHA Sponsor Loan - \$90,000 Sudbury CPA Funds - \$720,000 Green Energy Funds- \$100,000 Cambridge Housing Authority 	
Scope	Scattered Site redevelopment of 4 single family homes into 4 new duplexes (8 total units with 4 net new units)	

Please note the following:

- 1. The award of the PHI 2024 grant is conditioned on demonstration, to EOHLC's satisfaction, that all demolished state-aided units will be replaced with new units subject to long-term use restrictions approved by EOHLC.
- 2. If the final project costs are more than the TDC amount estimated in SHA's pro forma, then SHA must seek additional funds from a source other than EOHLC. EOHLC reserves the right to review the final project sources and uses budget to confirm that sufficient funds are available to carry out the project to completion.
- 3. If relocation of any resident is necessary to complete this project, SHA must comply with all state and federal relocation requirements pursuant to an EOHLC-approved relocation plan, including, without limitation, the federal Uniform Relocation Act and M.G.L. c. 79A.
- 4. Subject to EOHLC approval, these funds may be combined with previously awarded EOHLC funds. If additional funds are made available from any federal sources, the project must comply with all applicable federal requirements.
- 5. If the final project costs are less than the Estimated TDC, EOHLC will retain any unspent portion of the PHI 2024 funds.
- 6. EOHLC expects this project to have a construction Notice to Proceed by June 30, 2026. If SHA has not met this milestone, these funds may be rescinded.
- 8. 5% of the PHI 2024 award will be withheld as retainage and disbursed upon submission of a satisfactory Certificate of Final Completion to EOHLC.
- 9. Project must adhere to Massachusetts Multifamily New Construction Design Requirements & Guidelines, or their successor (Guidelines), which are currently available here: https://www.mass.gov/doc/multifamily-new-construction-design-requirements-guideline-for-special-bhcd-initiatives/download. Closing and advance of funds shall be subject to EOHLC review of final plans and specifications for adherence to the Guidelines and other applicable requirements; provided, that EOHLC in its sole discretion may, upon request from the Housing Authority, grant a waiver from such provisions of the Guidelines as may be necessary to accomplish the effective revitalization of the project in keeping with the requirements and goals of the PHI 2024 program and will not adversely affect public housing residents or applicants of any income who are otherwise eligible.
- 12. Up to 10% of the award may be used for predevelopment costs; the remainder cannot be expended until after construction closing and the project securing all necessary funds.

13. Pursuant to the Act, EOHLC is authorized to (a) exempt a recipient of PHI 2024 funding from the requirements of Chapters 7C and 121B of the General Laws upon a showing by the recipient that such exemptions are necessary to accomplish the effective revitalization of public housing and shall not adversely affect public housing residents or applicants of any income who are otherwise eligible and (b) provide such additional regulatory relief as may be required to further the objectives of the program. Under EOHLC regulations at 760 CMR 63.03(4), EOHLC in its discretion may at any time approve an exemption for a PHI 2024-eligible project from the requirements of M.G.L. c. 7C if it determines that the local housing authority has demonstrated that the requested exemption is necessary to accomplish the effective revitalization of public housing and will not adversely affect public housing residents or applicants of any income who are otherwise eligible and will be consistent with the purpose of the Act, 760 CMR 63.00 and the PHI 2024 Program Guidelines and all applicable provisions of law. EOHLC has made the necessary determination, and accordingly this award letter comprises a EOHLC waiver of M.G.L. c. 7C (designer selection) to assist SHA in accomplishing the goals of this award. SHA may choose to utilize this waiver or to follow the typical designer selection process under M.G.L. c. 7C.

Congratulations and thank you for your efforts to preserve public housing in Sudbury. If you have questions about this award please contact Matthew Martin, Real Estate & Redevelopment Specialist, at matthew.martin3@mass.gov.

Sincerely,

Jund M. Chengte L. Edward M. Augustus Jr.

Secretary

cc: Sheila Cusolito, Sudbury Housing Authority Executive Director

Andrew Sheehan, Sudbury Town Manager

James Eldridge, Senator

Carmine Gentile, Representative

Ben Stone, EOHLC, Undersecretary of Public Housing & Rental Assistance

Fatima Razzaq, EOHLC Director, Bureau of Housing Development & Construction

Avalon McLaren, EOHLC Director of Project Management

Matthew Martin, EOHLC Real Estate & Redevelopment Specialist