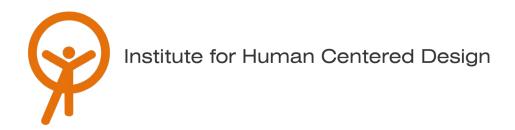
Broadacres Farm



Town of Sudbury ADA Transition Plan

September 2020



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Background

Year Built: 1922

Broadacres Farm is located at 82 Morse Road and has an unoccupied house, one barn that was used for horse riding lessons and a horse stable with 11 horse stalls that was used to house horses. The facility was assessed based on its last known programs. Currently only the horse riding barn is in use (for Department of Public Works storage only). A small unpaved parking area is provided on the site by the horse riding barn.

The house has three stories including a basement, first floor and second floor and one entrance. An exterior ramp leads from the unpaved parking area to the main entrance. Only a stair connects the three floors. There are inaccessible exits from the kitchen sunroom and basement via a bulkhead. The house also has a sun room attached to the building on the northwest side and an enclosed outdoor office structure that is located outside of the exit door from the kitchen on the northeast side of the house.

The horse riding barn and horse stable are one (1) story. The stable has one (1) entrance. The horse riding barn has three (3) entrances, one (1) of which leads to an enclosed observation room where visitors can watch people riding horses and two (2) barn doors that lead to the horse riding area.

Note: The horse riding observation room, the sun room and the outdoor office were locked during the survey and unable to be accessed. Two (2) additional buildings, located on Broadacres Farm across the street from the three (3) previously mentioned facilities, are slated to be torn down and are not included in the survey.

Key Accessibility Issues

Exterior Access Routes

Accessibility issues include running slopes that exceed 1:20 (5%) between the horse stable and horse riding barn, lack of a surface that is firm, stable and slip resistant between the horse riding barn and the horse stable, excessive level changes by the

entrance to the house, lack of an accessible route to the horse riding barn and lack of an accessible route to the outdoor office by the house.

Parking

A van accessible parking space is not provided in the parking area.

Exterior Ramp

Accessibility issues include lack of an accessible route to the ramp to the house, lack of the required 48 inches clear at the ramp and lack of compliant handrails.

Entrances

Accessibility issues include barn doors that require excessive opening force at the horse riding barn; an excessive change in level at the horse riding barn, horse stable and house entrance; and non-compliant door hardware leading to the horse riding observation room and the house. Because barn doors require excessive force, IHCD recommends installing an accessible door to the horse riding barn.

Signage

Accessibility issues include lack of compliant signage at entrances and exits.

Vertical Circulation

There is no accessible vertical circulation between the basement, first and second floors of the house. Rather than installing a lift, which may trigger full compliance for the building due to 521 CMR 3.3.2, IHCD recommends not locating public programs in the basement or on the second floor.

Toilet Rooms

Inaccessible single-user toilet rooms are provided in the horse stable and on the first floor of the house. These rooms lack the minimum required dimensions for accessible toilet rooms, and an accessible single-user toilet room should be provided in each location.

Additional Accessibility Issues

- The circulation path narrows to less than is allowed in the kitchen storage room in the house.
- There are excessive changes in level at the horse barn entrance and on the first floor of the house.
- The basement of the house has changes in level greater than allowed and has a clearance of less than 80" above the floor in some areas.
- Two doors on the first floor of the house have hardware that is not operable with a closed fist.

Order of Magnitude Cost Estimates

- Renovate exterior routes: \$8,480
- Provide a van accessible parking space: \$1,850
- Provide a new pressure treated wood ramp to the house: \$7,843
- Provide compliant signs at entrances: \$1,038
- Provide compliant egress signage: \$5,856
- Install an accessible door to the horse riding area: \$2,972
- Provide compliant hardware and a sloped walkway with a 5' by 5' level platform at the entrance door to the horse riding observation area: \$1,684
- Renovate kitchen areas: \$8,054
- Provide an accessible single-user toilet room in the house on the first floor and one in the horse stable: \$49,208
- Miscellaneous corrective actions (door hardware, door threshold, level changes, etc.): \$2,178

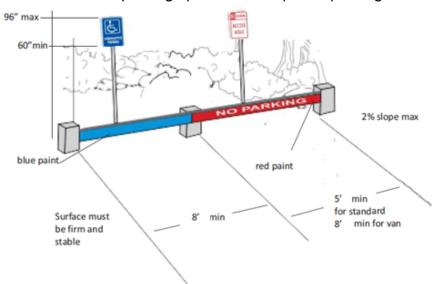
Total: \$89,163

Best Practice and Inclusive Design

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

• Recommend providing a sign with raised characters and braille mounted on the latch side of the door at permanent rooms that do not have a sign.

• See the following image for a recommendation on how to mark an accessible parking space in an unpaved parking lot:



Unpaved Parking Lots

ID	Location	Floor	Room	Element	Type	Photo	Issues	Current Measure	Recommendations	Quantity	Price	Cost Estimation
Approach and Entrance												
	Exterior Access Route											
1	Path Between Horse Riding Practice Building and Horse Barn	Ext.		Exterior Access Route	Walkway	S	Running slope > 1:20 (5%) Surface is not stable, firm, and slip-resistant Accessible route not provided	7.3% - 250'	Ensure an accessible route is provided with a slope no greater than 1:20 (5.00%). (Cost estimate for a 250' long 4' wide stone dust walkway.)	1	8000	\$8000
2	House Entrance	Ext.		Exterior Access Route	Walkway	Le Carrier de la	evel changes > 1/4"	2"	Alter change in level to be 1/4" high max. (Cost estimate for a 4' by 4' asphalt area.)	1	160	\$160
3	Horse Riding Practice Building	Ext.		Exterior Access Route	Walkway		accessible route not provided	-	Ensure an accessible route is provided to the new main entrance door. (Cost estimate for a 10' long 4' wide stone dust walkway.)	1	320	\$320
4	Kitchen Egress to Outdoor Office	Ext.		Exterior Access Route	Exterior	A	accessible route not provided	-	Due to lack of space an accessible route may not be technically feasible to the outdoor office.	1	-	\$0
	Off-Street Pa	rking Lo	t or Gara	ge								
5	Parking Area	Ext.		Off-Street Parking Lot or Garage	Visitor	T	otal # of parking otal # of designated van accessible spaces	3 0	Provide one van accessible parking space.	1	1850	\$1850

ID	Location	Floor	Room	Element	Туре	Photo	Issues	Current Measure	Recommendations	Quantity	Price	Cost Estimation
	Exterior Ramp											
6	House - Main Entrance	Ext.		Exterior Ramp	N/A	R H H	o lower handrail 18"-20" high provided amp < 48" wide landrails do not extend 12" past top & bottom andrails have non-compliant cross section amp is not located on an accessible route	- 35" - -	Rebuild ramp so that there is 48" inches clear. Provide a lower handrail between 18" to 20" high on each side. Provide handrails that extend horizontally above the landing for 12" min. beyond the top and bottom of ramp runs. Provide handrails with 1-1/4"to 1-1/2" circular cross sections. (Cost estimate for a new 30' pressure treaded wood ramp.).	1	7843	\$7843
	Entrance											
7	Horse Riding Practice Building Inaccessible Door	Ext.		Entrance	Secondary Entrance		ntrance not on an accessible route irectional sign to accessible entrance not provided	5" -	Provide a directional sign indicating the location of the nearest accessible entrance.	1	346	\$346
8	Horse Riding Practice Building Observation Area	Ext.		Entrance	Secondary Entrance	The state of the s	ntrance not on an accessible route hreshold > 1/2" high lardware not operable with a closed fist hternational Symbol of Accessibility not provided	- 5" -	After the entrance is made accessible, provide a sign with the International Symbol of Accessibility (ISA). Provide hardware that can be operable with one hand and not require tight grasping, pinching, or twisting of the wrist. Provide a sloped walkway with a 5' by 5' level platform at the door. (Cost estimate includes a 15' long concrete route to the door, door hardware and sign.)	1	2030	\$2030
9	Horse Riding Practice Building Main Entrance	Ext.		Entrance	Main Entrance	Ir	ternational Symbol of Accessibility not provided	-	Provide a sign with the International Symbol of Accessibility (ISA) at the new accessible entrance door.	1	346	\$346
10	House - Main Entrance	Ext.		Entrance	Main Entrance		hreshold > 1/2" high ardware not operable with a closed fist	1" -	Alter threshold to be 1/2" high max. Provide hardware that can be operable with one hand and not require tight grasping, pinching, or twisting of the wrist.	1	634	\$634

ID	Location	Floor	Room	n Element	Туре	Photo	Issues	Current Measure	Recommendations	Quantity	Price	Cost Estimation
11	Horse Riding Practice Building Main Entrance	Ext.		Entrance	Main Entrance		Door requires > 15 lbs. of force to open	-	Provide an accessible door into the facility. (Cost estimate for installing a solid core wood door.)	1	2972	\$2972
	Emergency Ex	xit										
12	Kitchen Egress	1		Emergency Exit	N/A		Tactile sign not provided at exit Directional sign to accessible emergency exit not provided	-	Provide tactile exit signs with raised characters and braille at exit doors. Mount signs between 48"- 60" above the finished floor located on the latch side of the door. Provide a directional sign indicating the location of the nearest accessible emergency exit.	1	464	\$464
13	Horse Riding Practice Building Inaccessible Door	Ext.		Emergency Exit	N/A		Tactile sign not provided at exit Directional sign to accessible emergency exit not provided	-	At the interior of the exit door: provide tactile exit signs with raised characters and braille at exit doors. Mount signs between 48"- 60" above the finished floor located on the latch side of the door. Provide a directional sign indicating the location of the nearest accessible emergency exit.	1	464	\$464
14	Horse Barn Exit	1		Emergency Exit	N/A		Tactile sign not provided at exit Illuminated Int. Symbol of Acc. not provided (MAAB)	-	Provide tactile exit signs with raised characters and braille at exit doors. Mount signs between 48"- 60" above the finished floor located on the latch side of the door. Provide an illuminated sign with the International Symbol of Accessibility.	1	1116	\$1116
15	Horse Riding Practice Building Observation Area	Ext.		Emergency Exit	N/A		Tactile sign not provided at exit Illuminated Int. Symbol of Acc. not provided (MAAB)	- - -	Provide a tactile exit signs with raised characters and braille at the interior. Mount signs between 48"- 60" above the finished floor located on the latch side of the door. After the door is made accessible, provide an illuminated sign with the International Symbol of Accessibility on the interior of the door.	1	1116	\$1116

ID	Location	Floor	Room	Element	Туре	Photo	Issues	Current Measure	Recommendations	Quantity	Price	Cost Estimation
16	House - Main Entrance	Ext.		Emergency Exit	N/A		Tactile sign not provided at exit Illuminated Int. Symbol of Acc. not provided (MAAB)		Provide a tactile exit sign with raised characters and braille at the interior of the exit door. Mount sign between 48"- 60" above the finished floor located on the latch side of the door. After the exit is made accessible, provide an illuminated sign with the International Symbol of Accessibility.	1	1116	\$1116
17	Horse Riding Practice Building Main Entrance	Ext.		Emergency Exit	N/A		Tactile sign not provided at exit Illuminated Int. Symbol of Acc. not provided (MAAB) Directional sign to accessible emergency exit not provided	- - - -	At the interior of the exit door: provide tactile exit signs with raised characters and braille at the existing main exit door and the new accessible main exit door. Provide a directional sign indicating the location of the nearest accessible emergency exit at the inaccessible exit. Provide an illuminated sign with the International Symbol of Accessibility at the accessible exit door.	1	1580	\$1580
A	ccess to Good											
	Interior Acces	ss Route										
18	Kitchen Storage and Bathroom	1		Interior Access Route	N/A		Route < 36" wide	31"	Ensure that a clear width of 36" min. is maintained at the accessible route. Remove shelves. Route is allowed to narrow to 32 inches for a depth of 24 inches.	1	Labor	\$0
19	Horse Barn Entrance	1		Interior Access Route	N/A		Level changes > 1/4"	2"	Alter change in level to be 1/4" high max.	1	144	\$144
20	House - Main Entrance	1		Interior Access Route	N/A		Level changes > 1/4"	3"	Alter change in level to be 1/4" high max.	1	432	\$432

ID	Location	Floor	Room	Element	Туре	Photo	Issues	Current Measure	Recommendations	Quantity	Price	Cost Estimation
21	Stair	1		Interior Access Route	N/A		Accessible route not provided	-	Consider locating all public programs on the first floor of the building.	1	-	\$0
22	Basement	В		Interior Access Route	N/A		Vertical clearance < 80" above finished floor	62.5"	The basement is unfinished with tripping hazards, no lighting, and has vertical clearance less than 80" above the floor in some areas. IHCD recommends not providing public programs in this area.	1	-	\$0
	Doors, Doorways, & Gates											
23	Dining Room	1		Doors, Doorways, & Gates	Other		Hardware not operable with a closed fist	-	Provide hardware that can be operable with one hand and not require tight grasping, pinching, or twisting of the wrist.	1	484	\$484
24	Access to Porch From the Living Room	1		Doors, Doorways, & Gates	Other		Hardware not operable with a closed fist	-	Provide hardware that can be operable with one hand and not require tight grasping, pinching, or twisting of the wrist.	1	484	\$484
	Kitchens and	Kitchene	ettes									
25	Kitchen	1		Kitchens and Kitchenette s	N/A		Knee/toe clearance not provided at sink Sink > 34" high Countertop > 34" high	- - -	Provide a sink with knee and toe clearance positioned for a forward approach. Lower sink to be no higher than 34" positioned for a forward approach. Lower countertop to provide a work surface no higher than 34" positioned for a forward approach.	1	3974	\$3974

ID	Location	Floor	Room Element	Туре	Photo	Issues	Current Measure	Recommendations	Quantity	Price	Cost Estimation	
	Overall Access											
26	Horse Barn Toilet Room	1	Overall Access	Toilet Room		Turning space not provided Accessible plumbing fixtures or stalls not provided	40"	Add an accessible single-user toilet room.	1	24604	\$24604	
27	Kitchen Bathroom in the House	1	Overall Access	Toilet Room		Turning space not provided Accessible plumbing fixtures or stalls not provided	31"	Provide an accessible single-user toilet room.	1	24604	\$24604	
	Additional Acce	ess										
	Sink											
28	Kitchen Storage Area	1	Sink	Other		Toe and knee clearances not provided Rim or counter > 34" Non-compliant faucets	24" 37" -	Ensure there is a 27" knee clearance positioned for a forward approach. Relocate sink with the front of the rim or counter no higher than 34". Install faucets that do not require tight grasping, pinching, or twisting of the wrist.	1	4080	\$4080	