



# Accessibility Audit

 **Direct Access**

Prepared by Direct Access Consultancy LLC

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Westford Schools, Children's Centers & Museum

Westford, MA 01886

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# 1. Executive Summary

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## 1.1 Executive summary

The Town of Westford has set out to assess accessibility provisions to identify options that could be taken forward in the short, medium and long term. It is intended that this report provides a variety of options which include:

- Works that can be implemented to instantly improve the accessibility of all Schools and educational facilities with minimal if any budget costs
- Works that can be implemented with funding in place
- Opportunities and blue-sky thinking

The approach to determine the accessibility was taken in three parts, looking at how the current site functions, the key amenities, and then the online information.

It has been evident and readily apparent that the Town of Westford is wholeheartedly supportive of this project and is dedicated to fostering inclusivity for individuals with disabilities. Their proactive approach and commitment to accommodating all members of the community, regardless of their abilities, has been unmistakable from the outset. The Town of Westford's demonstrated willingness to embrace this project and prioritize inclusivity for individuals with disabilities has been a commendable and encouraging aspect of the collaborative effort.

Please note the audit of Westford Public School facilities is limited to those spaces and used for Town programming, such as meetings, elections, Town Recreation Department programs, and other public events, as well as the general accessibility of the areas supporting those uses (such as parking areas, main restrooms and accessible routes to those spaces). The accessibility action plan can be found in section 9 and the actual on-site assessment in section 10.

## 2. Acronyms, Abbreviations and Definitions

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### 2.1 Acronyms and Abbreviations

Acronym/Abbreviation	Expansion
<b>ADA</b>	ADA 2010 Standards for Accessible Design
<b>ADA1991</b>	1991 ADA Standards for Accessible Design (ADA Standards 1991)
<b>ADT</b>	Americans with Disabilities Act Standards for Transportation Facilities (2006)
<b>PRW</b>	Proposed Accessibility Guidelines for Pedestrian Facilities in the Public Right-of-Way (PROWAG, 2011)
<b>ADAP</b>	Americans with Disabilities Act Accessibility Guidelines for Buildings and Facilities, Supplemental Changes for Play Areas (2000) and Recreational Facilities (2002)
<b>ASL</b>	American Sign Language

## 2.2 Glossary of Terms

Term	Definition
<b>People with disabilities</b>	Includes those who have long-term physical, mental, intellectual or sensory impairments which in interaction with various barriers may hinder their full and effective participation in society on an equal basis with others.
<b>Personal Assistant</b>	A personal assistant will enable disabled people to live their day-to-day life as normal as possible and assist the individual to take part in everyday activities that other people take for granted. The duties of a Personal Assistant will vary with each person.
<b>Sign language interpreter</b>	A sign language interpreter will translate from a spoken language into a sign language and vice versa.
<b>Audio Description</b>	A person will audibly describe an item or exhibit to assist someone who is Blind or has a vision impairment.
<b>Inclusive design</b>	Approach to the design of the environment, including buildings and their surrounding spaces, and managed and natural landscapes, to ensure that they can be accessed and used by everyone.
<b>Light reflectance value (LRV)</b>	Total quantity of visible light reflected by a surface at all wavelengths and directions when illuminated by a light source.
<b>Manifestation</b>	Permanent markings or features within areas of full-height transparent glazing, glazed walls or screens, fully glazed doors or glass doors, which help to prevent collisions by making the glazing more visible to building users.
<b>Illuminance or Luminance</b>	Amount of light falling on a surface, measured in lumens per square metre (lm/m <sup>2</sup> ) or lux (lx).
<b>Level</b>	Gradient not steeper than 1:60.

Term	Definition
<b>Nosing</b>	Front edge portion of a tread and riser or landing and riser.
<b>Ramp</b>	One or more inclined surfaces with a gradient between 1:20 and 1:12.
<b>Refuge</b>	Area that is both separated from a fire by fire-resisting construction and provided with a safe route to a story exit, thus constituting a temporarily safe space.
<b>Unisex</b>	(Of sanitary accommodation) designed for use by all, with or without assistance.
<b>Color (or visual) contrast</b>	Perception of a difference visually between one surface or element of a building and another by reference to their light reflectance values (LRV).
<b>Way-finding</b>	Means of ensuring that someone can find their way, avoid obstacles, and know when they have reached their destination.
<b>Dropped Curb</b>	Construction in the form of an inclined plane that makes it possible to pass from street level to a higher accessible pedestrian path.
<b>Interaction space</b>	The interaction space is the space required by a person to interact with another person, furniture, appliance, machine or another item.
<b>Mobility aid</b>	A device that is used by persons with functional limitations to assist walking. Examples include canes, arm crutches, and walkers. Within this report the term “wheelchair” is used to include manual wheelchairs, sports chairs, electric powered wheelchairs and mobility scooters, unless otherwise stated.
<b>Mobility device</b>	A manual or motorized device to be used by persons with functional limitations in their mobility. Examples include manual and sports wheelchairs, electric powered wheelchairs, and three and four-wheeled mobility scooters.

Term	Definition
<b>Operable with the elbow</b>	<p>This expression is frequently used in this report. It is used as an abbreviated explanation of the manual operations that can be executed:</p> <ul style="list-style-type: none"> <li>• With one hand only</li> <li>• Without wrist turning</li> <li>• Without finger grip</li> <li>• Not requiring very precise psychomotor skills</li> <li>• With low strength requirements</li> </ul>
<b>PTV</b>	<p>Pendulum Test Value. This parameter provides information about the slipperiness of a floor surface. Floor manufacturers may provide this value in the technical specifications of their products. Pendulum Test Value (or sometimes BPN, British Pendulum Number, or SRV, Slip Resistance Value). The standard EN 13036-4 determines the test methods.</p>
<b>Newton</b>	<p>The newton (symbol: N) is the International System of Units (SI) derived unit of force. 1 newton of force is the force required to accelerate an object with a mass of 1 kilogram 1 meter per second per second.</p>
<b>Lux</b>	<p>The lux (symbol: lx) is the SI derived unit of illuminance and luminous emittance, measuring luminous flux per unit area. It is equal to one lumen per square meter. In photometry, this is used as a measure of the intensity, as perceived by the human eye, of light that hits or passes through a surface.</p>

## 3. Documents and Best Practices

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### 3.1 Documents

The following documents are used as the main sources of comparison in this accessibility audit report.

#### Documents

Title II and III regulation 35.105 of the U.S. Department of Justice

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ADA 2010 Standards for Accessible Design

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1991 ADA Standards for Accessible Design (ADA Standards, 1991)

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Architectural Barriers Act

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Americans with Disabilities Act Standards for Transportation Facilities (2006)

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Proposed Accessibility Guidelines for Pedestrian Facilities in the Public Right-of-Way (PROWAG, 2011)

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Fair Housing Act 1988

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Individuals with Disabilities Education Act (IDEA)

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Rehabilitation Act 1973

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NFPA Fire Codes

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International Building Code

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International Fire Code

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## 3.2 Best Practices

To create an inclusive organization, the implementation of best practices at a strategic level should be applied. The principles that should be incorporated are:

- Place people at the heart of the processes.
- Acknowledge diversity and difference.
- Offer choice where a single solution cannot accommodate all users.
- Provide for flexibility of use.

It is important to acknowledge and adapt any best practices to the requirements of the organization. The needs of the workforce must be considered for the accessible built environment to maintain a legacy of inclusion. Best practice can vary depending on the political, cultural, social, and economic environment as well as the climate and topography of the state of origin. It is important to ensure that any best practices recommended in this report are implemented in conjunction with local expertise.

Recommended best practices are provided to enhance public understanding of accessibility issues, and where relevant, to go beyond compliance with standards to create innovative, accessible environments.

### 3.3 Resources

#### **U.S. Department of Justice ADA Information**

800-514-0301 voice

800-514-0383 TTY

[www.ada.gov](http://www.ada.gov)

#### **ADA National Network**

800-949-4232 voice/TTY connects to your regional ADA Center

[www.adata.org](http://www.adata.org)

**U.S. Access Board** 800- 872-2253 voice 800-993-2822 TTY

[www.access-board.gov](http://www.access-board.gov)

#### **ADA Title III Regulations 28 CFR Part 36**

[www.ada.gov/regs2010/titleIII\\_2010/titleIII\\_2010\\_regulations.htm](http://www.ada.gov/regs2010/titleIII_2010/titleIII_2010_regulations.htm)

#### **2010 ADA Standards for Accessible Design**

[www.ada.gov/2010ADASTandards\\_index.htm](http://www.ada.gov/2010ADASTandards_index.htm)

#### **1991 ADA Standards for Accessible Design**

[www.ada.gov/stdspdf.htm](http://www.ada.gov/stdspdf.htm)

#### **Tax Deductions and Credits for Barrier Removal**

[www.ada.gov/taxincent.htm](http://www.ada.gov/taxincent.htm)

Most of the illustrations used within this report are from the U.S. Department of Justice and the U.S. Access Board or are based on illustrations produced by the U.S. Access Board and the U.S. Department of Justice.

## 4. Introduction

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### 4.1 The importance of accessibility

At the time of the 2010 census, 54 million people (about 1 in every 5 people in the United States) had a disability that significantly limited one or more major life activities, such as walking, seeing, hearing, breathing, and thinking. Of that number, 7 percent used wheelchairs, and 2.1 percent used crutches, canes, walkers, or other assistive devices. Seventy-five percent have disabilities that are not obvious at first glance.

The Disability & Health U.S State Profile Data for Massachusetts (Adults 18+ years of age) shows that 1,348,913 adults in Massachusetts have a disability. This is equal to 23% or 1 in 4 adults in Massachusetts.<sup>1</sup>

People with disabilities constitute the largest minority in the country. Additionally, the population of the United States is aging. By the year 2030, more than 80 million people will be 65 or older. As people age, impairments are more likely to hinder activities.

### 4.2 Accessibility audit

The Americans with Disabilities Act (ADA) requires state and local governments, businesses and non-profit organizations to provide goods, services and programs to people with disabilities on an equal basis with the rest of the public. Many assume that only new construction and alterations need to be accessible and that older facilities are potentially exempt, this is incorrect. The ADA is a civil rights law and not a building code, older facilities are often required to be accessible to ensure that people with disabilities have an equal opportunity to participate.

The ADA has different requirements for state and local governments and for places of public accommodation (businesses and non-profit organizations that serve the public).

This Access Audit will review accessibility for people with disabilities and compliance with the duties of the client under the Americans with Disabilities Act (ADA). The audit will benchmark against the relevant codes and offer recommendations to improve access further to achieve compliance with best practice standards wherever possible within the context of building use, heritage, conservation, and structural and management constraints.

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<sup>1</sup> [https://www.cdc.gov/ncbddd/disabilityandhealth/impacts/pdfs/Massachusetts\\_Disability.pdf](https://www.cdc.gov/ncbddd/disabilityandhealth/impacts/pdfs/Massachusetts_Disability.pdf)

This Access Audit report is compiled using photographic evidence, information and other evidence gathered during site visits carried on the date stated on the front of the report.

Where inclusive design advice is given, this takes into account a certain level of ‘reasonableness’ Where it is not possible to alter a feature either by feasibility or lack of funds, creative approach solutions are provided when possible. Many recommendations are not featured within the ADA such as the implementation of QR codes and will be based on the knowledge of the surveyor using experience of projects.

### 4.3 Purpose of an access audit

The purpose of the access audit is to assess how well a site performs in terms of access and ease of use by a wide range of potential users, including people with disabilities. The audit provides a certain “snapshot” of a site at one point in its life. As the starting point of an ongoing access action plan, it can be used to highlight areas for improvement as well as a general risk assessment.

The most obvious part of a site, which determines its accessibility, is the shell. Decisions made by the design teams can fundamentally affect the accessibility for a long time.

When a site is fitted out, fixtures and fittings can be critical. Most are not built to last like the building itself, and if deficiencies are identified, these can be included in the next potential refurbishment. A building is next furnished and equipped, and at this stage many mistakes can occur. Furnishings are generally short-lived so opportunities for improvement tend to occur more regularly.

Finally, as a site is occupied, the way it is used and managed becomes crucial. Accessibility is affected when bad housekeeping exists causing tripping hazards or over-zealous polishing leads to slippery floors. Continual monitoring by management therefore has a considerable role to play.

## 4.4 Access Audit Process

The access audit was undertaken in two stages employing plans of the site, if available, and the checklists in the Audit table. The general order of the checklists is:

Checklist Ref	Description	Applicable to this site	
		Yes	No
Checklist 1	Approach, Routes, Street Furniture and Cross Walks	X	
Checklist 2	Car Parking and ADA Spaces	X	
Checklist 3	External Ramps	X	
Checklist 4	External Steps	X	
Checklist 5	Entrances	X	
Checklist 6	Service Desks	X	
Checklist 7	Corridors & Internal Surfaces	X	
Checklist 8	Internal Doors	X	
Checklist 9	Internal Ramps		X
Checklist 10	Internal Stairs	X	
Checklist 11	Elevators	X	
Checklist 12	WCs: General Restrooms	X	
Checklist 13	ADA Wheelchair Accessible Toilet Compartments	X	
Checklist 14	Accessible Accommodations		

Checklist 14	Facilities	X	
Checklist 15	Way Finding	X	
Checklist 16	Lighting & Acoustics	X	
Checklist 17	Means of Escape	X	
Checklist 18	Building Management	X	

**Stage 1 – Information gathering**

This is undertaken as a walkthrough audit / inspection of the building using the above checklists via BlueDAG software.

**Stage 2 – Results and Recommendations**

The report suggests possible improvements that can be made to the building. These range from small non-structural adjustments to possibly major structural alterations. It also gives an indication of priorities and costs.

**4.5 Factors contributing to accessibility.**

There are many factors that contribute to accessibility, the most obvious being the building itself and the fixtures, fittings, furniture and equipment. It is important that awareness is raised regarding other factors that have an impact on the day-to-day running of a building and the operation and provision of any auxiliary aids or services.

The training, attitude and disability awareness of staff contribute greatly to the accessibility of the building and is a crucial area to consider. The policies and procedures used to manage a building are another crucial area that impacts upon accessibility. Policies and procedures can dictate the maintenance and procurement strategy that affect the accessibility of the building in the long-term. Adjusting these areas after completion of an access audit will maintain and improve access for people with disabilities and for everyone using the building.

There are factors beyond the immediate boundaries and responsibilities of the audited areas that also have a huge impact on accessibility. The surrounding services, such as transport provision and connecting pedestrian infrastructure, provide connecting

access for people with disabilities. These areas are rarely the responsibility of the client, but they can be monitored and managed to ensure that related accessibility concerns are reported to the relevant authorities.

## 4.6 Understanding the Legislative Background

Businesses and non-profit organizations that provide services to the public must remove architectural and communication barriers when it is “readily achievable” to do so. In effect, where it is easy to achieve and without difficulty or much expense. This can be achieved by looking at the Department of Justice’s ADA Title III regulations 28 CFR Part 36.304 or engaging an Access Consultant.

Determining actions that are readily achievable depends on the financial resources of the organization. Factors that should be considered are:

1. The nature and cost of barrier removal
2. The overall financial resources of the site or sites, including:
  - a. The number of persons employed at the site
  - b. The effect on expenses and resources
  - c. Legitimate safety requirements necessary for safe operation
  - d. Any other impact of the action on the operation of the site
3. The geographic location, administrative and fiscal relationship of the site to any parent corporation.

It is also useful to be aware of the different laws that may impact on accessibility considerations:

**Americans with Disabilities Act (ADA)** – this is the most widely known civil rights law introduced in 1990 and is broad in scope. There are five different elements to this, covering:

Title I – Employment

Title II – State and local government

Title III – public accommodations (the focus of this guide)

Title IV – Telecommunications

## Title V - Miscellaneous

This was supported by ADA Standards for Accessible Design in 1991 which has been updated by the **2010 ADA Standards for Accessible Design** that sets out requirements for a wide variety of situations. Full compliance is only required for new construction and alterations.

**Safe Harbor** – where construction was prior to March 15, 2012, that comply with the 1991 ADA standards, modifications are not required to bring to 2010 standards. For example, the 1991 standards allow 54 inches for a side reach range to a control such as a paper towel dispenser. The 2010 standards lowers this to 48 inches. If the dispenser was installed before March 15, 2012, at 54 inches, then the dispenser does not need to be lowered. Sport and recreational facilities do not come under Safe Harbor rules as these elements were not part of the 1991 standards.

**Architectural Barriers Act 1968** – this was the first federal law addressing civil rights for people with disabilities. It required buildings constructed by the federal government or with federal funding to be accessible to people with disabilities. The Uniform Federal Accessibility Standards was the first set of standards for the removal of architectural barriers. The **Rehabilitation Act of 1973** was the first federal law to prohibit discrimination against people with disabilities and required federal employers to provide reasonable accommodations for employees with disabilities – many of the ideas and concepts here became part of the ADA.

**Section 503 of the Rehabilitation Act** prohibits federal contracts and subcontractors from discriminating in employment against people with disabilities.

The **Individuals with Disabilities Education Act (IDEA)** provides a means for parents and schools to work together to create individualized education plans (IEPs) for students with disabilities.

### 4.7 State and Local Government Requirements

State and local Governments have the responsibility to ensure that services, programs and activities (when viewed in their entirety) are accessible to people with disabilities. This is part of public entities' program accessibility obligations. Alterations to older buildings may be needed to ensure program accessibility. Generally, this is a greater obligation than "readily achievable barrier removal" the standard that applies to public accommodations. State and local governments are not required to take any action that would result in undue financial and administrative burdens.

State and local governments' ADA obligations for program accessibility are in the Department of Justice's ADA Title II regulations 28 CFR Part 35.150.

## 4.8 Public Accommodations

Public accommodations that are private entities that own, lease, lease to or operate a place of public accommodation have legal obligations under the ADA. This means that both a landlord who leases space in a building to a tenant and the tenant who operates a place of public accommodation have responsibilities to remove barriers.

- A place of public accommodation is a facility whose operations affect commerce and fall within at least one of the following 12 categories:
- Places of lodging (e.g., inns, hotels, motels, except for owner-occupied establishments renting fewer than six rooms)
- Establishments serving food or drink (e.g., restaurants and bars)
- Places of exhibition or entertainment (e.g., motion picture houses, theaters, concert halls and stadiums)
- Places of public gathering (e.g., auditoriums, convention centers, lecture halls)
- Sales or rental establishments (e.g., bakeries, grocery stores, hardware stores, shopping centers)
- Service establishments (e.g., laundromats, dry-cleaners, banks, barber shops, beauty shops, travel services, shoe repair services, funeral parlors, gas stations, offices of accountants or lawyers, pharmacies, insurance offices, professional offices of health care providers, hospitals)
- Public transportation terminals, depots, or stations (not including facilities relating to air transportation)
- Places of public display or collection (e.g., museums, libraries, galleries)
- Places of recreation (e.g., parks, zoos, amusement parks)
- Places of education (e.g., nursery schools, elementary, secondary, undergraduate, or postgraduate private schools)
- Social service center establishments (e.g., day care centers, senior citizen centers, homeless shelters, food banks, adoption agencies)
- Places of exercise or recreation (e.g., gymnasiums, health spas, bowling alleys, golf courses).

## 4.9 Variations of Discrimination

Discrimination towards people with disabilities can happen in a variety of ways, the main are highlighted as per below:

- **Direct discrimination** - because of their disability a disabled person receives worse treatment than somebody who is not disabled.
- **Indirect discrimination** - a policy rule or practice that is applied to everyone places people with a particular disability at a disadvantage compared to people without that disability, unless it can be justified.

- **Discrimination arising from disability** - a person with a disability is treated unfavorably because of something connected with their disability but not their disability itself unless it can be justified.

The ADA gives people with disabilities rights in most ways of life including – employment, access to goods, facilities, and services, including transport

Under the ADA It is unlawful for service providers to treat people with disabilities less favorably for a reason related to their disability. Service providers must not **refuse to serve a disabled person, offer a disabled person a lower standard of service or offer a disabled person less favorable terms**. Whilst this may not always be possible due to the way a building is designed, the onus should be on the service provider to try and implement a reasonable adjustment to overcome a barrier. This could happen in a variety of ways

- change a **practice, policy or procedure** which makes it impossible or unreasonably difficult for people with disabilities to use their services, for example, amending a “no dogs” policy to allow a disabled person accompanied by a guide dog to enter their premises.
- provide an **auxiliary** aid or service if it would make it easier for disabled people to make use of their services, for example, the provision of information in alternative formats such as audio tape, Braille, or large print.
- provide a reasonable **alternative method** of making services available to disabled people where a **physical feature** makes it impossible or unreasonably difficult for disabled people to make use of them, for example, providing staff assistance to people with disabilities who cannot access goods due to their disability when shopping.

## 4.10 Financial Assistance for Removing Barriers

There are several initiatives to support organizations improving accessibility.

### Federal taxation

- The **Disabled Access Credit** (Internal Revenue Code, Section 44) enables small businesses<sup>2</sup> to cover ADA-related eligible expenditures. Taken in the form of a credit, up to \$5,000 (half of eligible expenses up to \$10,250, with no credit for the first \$250) can be used to offset access costs, including barrier removal (e.g., widening a doorway, installing a ramp), provision of accessibility services (e.g., sign language interpreters), provision of printed material in alternate formats (e.g., large-print, audio, Braille), and provision or modification of equipment.
- **Tax Deduction** is available for all businesses regardless of size. Under Internal Revenue Code, Section 190, businesses can take a business expense deduction of up to \$15,000 per year for costs of removing barriers in facilities per year for costs of removing barriers in facilities per year or for vehicles.
- Both incentives can be used together by eligible businesses if the expenditures qualify under both Sections 44 and 190. If a small business' expenses exceed \$10,250 for the maximum \$5,000 tax credit, then the deduction equals the difference between the total spent and the amount of the credit claimed.
- **Federal Rehabilitation Investment** tax credits are available for eligible historic commercial buildings that are registered in the National Register of Historic Places. Building must be used for income producing purposes, for example office, retail, residential rental, bed and breakfast, and light manufacturing uses. The building must be a depreciable building and not used as a private residence. The project must meet the "substantial rehabilitation test." This test is where the amount of money to be spent on the rehabilitation must exceed the adjusted basis of the building or \$5,000, whichever is greater. Generally, projects must be finished within a 24-month period. After rehabilitation, the building must be owned by the same owner and operated as an income producing property for five years.

## 4.11 Disclaimer

The implementation of advice and recommendations given in good faith in this report cannot guarantee compliance with the duties of the Americans with Disabilities Act (ADA) or ensure immunity from the award of damages under the Act. For information

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<sup>2</sup> A small business is one that has either revenues of less than \$1m or if higher than \$1m, employs less than 30 full-time workers in the previous tax year.

regarding issues arising from the interpretation of the Americans with Disabilities Act (ADA) it is strongly recommended that suitable legal advice is sought.

The recommendations given in this report are for guidance only and should not be acted upon to alter the physical features of a building without knowledge of the building fabric, structure and status and the engagement of suitably qualified professionals.

The standards, guidance and legislation referred to in this report are current at the time of writing and may be subject to change in the future.

## 5. Consultation

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### 5.1 Access Groups

The standards, guidance and legislation referred to in this report are current at the time of writing and may be subject to change in the future. Liaison with disabled user groups has not been undertaken as part of this inspection.

### 5.2 National Register of Historic Places / Conservation

Professional advice must be sought for building permits (or construction permits)

### 5.3 Access Groups

The standards, guidance and legislation referred to in this report are current at the time of writing and may be subject to change in the future.

## 6. Site Details

### 6.1a Description of Site: Abbot Elementary School

Description	Details
Date of Construction:	2000
Constructed of:	Traditional Construction
Number of Floors:	
External Areas:	Athletic Field
Number of Elevators:	1

### 6.1b Access Facilities in Place

Facility	Details
Ramps	2
Platform lifts	1
Stair lift	None
Visual indicators for fire alarms	Yes
Induction loops / Infrared systems	None
Accessible ADA restrooms	1 seen in area used for town hall activities

<b>Tactile signage</b>	None
<b>On site assistance</b>	Available
<b>Designated ADA parking areas</b>	Several car spaces. No van designated space

### 6.2a Description of Site: Lloyd G. Blanchard Middle School

Description	Details
<b>Date of Construction:</b>	Various
<b>Constructed of:</b>	Traditional Construction
<b>Number of Floors:</b>	None
<b>External Areas:</b>	Athletic Field
<b>Number of Elevators:</b>	None

### 6.2b Access Facilities in Place

Facility	Details
<b>Ramps</b>	None
<b>Platform lifts</b>	None

<b>Stair lift</b>	None
<b>Visual indicators for fire alarms</b>	None
<b>Induction loops / Infrared systems</b>	None
<b>Accessible ADA restrooms</b>	1 Non-accessible portable toilet
<b>Tactile signage</b>	None
<b>On site assistance</b>	Available
<b>Designated ADA parking areas</b>	None

### 6.3a Description of Site: John A. Crisafulli Elementary

<b>Description</b>	<b>Details</b>
<b>Date of Construction:</b>	Various
<b>Constructed of:</b>	Traditional Construction
<b>Number of Floors:</b>	One
<b>External Areas:</b>	Playground and Parking Lot
<b>Number of Elevators:</b>	None

### 6.3b Access Facilities in Place

Facility	Details
Ramps	None
Platform lifts	None
Stair lift	None
Visual indicators for fire alarms	None on the playground
Induction loops / Infrared systems	None
Accessible ADA restrooms	Closest accessible restrooms are in the elementary school
Tactile signage	None
On site assistance	None
Designated ADA parking areas	4 accessible car spaces in front of the school. No accessible van spaces.

### 6.4a Description of Site: Norman E. Day School

Description	Details
Date of Construction:	
Constructed of:	Traditional Construction
Number of Floors:	None

<b>External Areas:</b>	1 Playground at side of school
<b>Number of Elevators:</b>	None

### 6.4b Access Facilities in Place

Facility	Details
<b>Ramps</b>	Two composite ramps. One at the entrance to the playground and a second from the path of travel onto grassy surfaces.
<b>Platform lifts</b>	None
<b>Stair lift</b>	None
<b>Visual indicators for fire alarms</b>	None on the playground
<b>Induction loops / Infrared systems</b>	None
<b>Accessible ADA restrooms</b>	Closest accessible restrooms are in the elementary school
<b>Tactile signage</b>	None
<b>On site assistance</b>	Only during school time with class in attendance
<b>Designated ADA parking areas</b>	Five accessible car spaces with access aisles and signage. One van accessible space with 8' access aisle and signage.

### 6.5a Description of Site: Rita Edwards Miller School

Description	Details
Date of Construction:	
Constructed of:	Traditional Construction
Number of Floors:	N/A
External Areas:	2 Playgrounds. One in front and one in back of school
Number of Elevators:	N/A

### 6.5b Access Facilities in Place

Facility	Details
Ramps	Entry ramps from path of travel onto play surfaces
Platform lifts	None
Stair lift	None
Visual indicators for fire alarms	None seen
Induction loops / Infrared systems	None
Accessible ADA restrooms	None on the playground
Tactile signage	None

<b>On site assistance</b>	Only during school time with class in attendance
<b>Designated ADA parking areas</b>	Two accessible parking spaces

### 6.6a Description of Site: Millenium School

Description	Details
<b>Date of Construction:</b>	Various
<b>Constructed of:</b>	Traditional Construction
<b>Number of Floors:</b>	N/A
<b>External Areas:</b>	2 Playgrounds. One in front and one behind the school
<b>Number of Elevators:</b>	N/A

### 6.6b Access Facilities in Place

Facility	Details
<b>Ramps</b>	None
<b>Platform lifts</b>	None
<b>Stair lift</b>	None
<b>Visual indicators for fire alarms</b>	Available

<b>Induction loops / Infrared systems</b>	None
<b>Accessible ADA restrooms</b>	Boys and girls accessible toilet compartment. Adult accessible toilet compartment.
<b>Tactile signage</b>	None
<b>On site assistance</b>	Only during school time with class in attendance
<b>Designated ADA parking areas</b>	The parking lot is shared with Abbot school. Refer to Abbot School details for information on accessible parking.

### 6.7a Description of Site: Parkerville Schoolhouse

Description	Details
<b>Date of Construction:</b>	1880
<b>Constructed of:</b>	Traditional Construction
<b>Number of Floors:</b>	N/A
<b>External Areas:</b>	
<b>Number of Elevators:</b>	N/A

### 6.7b Access Facilities in Place

Facility	Details
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<b>Ramps</b>	Removeable threshold ramps.
<b>Platform lifts</b>	None
<b>Stair lift</b>	None
<b>Visual indicators for fire alarms</b>	None Seen
<b>Induction loops / Infrared systems</b>	None Available
<b>Accessible ADA restrooms</b>	None Seen
<b>Tactile signage</b>	None
<b>On site assistance</b>	Building open for visit by school groups
<b>Designated ADA parking areas</b>	Non-existent parking area lacks accessible parking spaces.

### 6.8a Description of Site: Roudenbush Children’s Center at Frost

Description	Details
<b>Date of Construction:</b>	Various
<b>Constructed of:</b>	Traditional Construction
<b>Number of Floors:</b>	2
<b>External Areas:</b>	Playgrounds, Tennis Courts and Soccer Fields

<b>Number of Elevators:</b>	None
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### 6.8b Access Facilities in Place

Facility	Details
<b>Ramps</b>	None
<b>Platform lifts</b>	None
<b>Stair lift</b>	None
<b>Visual indicators for fire alarms</b>	None
<b>Induction loops / Infrared systems</b>	None
<b>Accessible ADA restrooms</b>	None
<b>Tactile signage</b>	None
<b>On site assistance</b>	Available
<b>Designated ADA parking areas</b>	No accessible parking spaces.

### 6.9a Description of Site: Roudenbush Children’s Center at NAB

Description	Details
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<b>Date of Construction:</b>	Various
<b>Constructed of:</b>	Traditional Construction
<b>Number of Floors:</b>	2
<b>External Areas:</b>	Basketball Court, Tennis Courts, Soccer Fields and Playground
<b>Number of Elevators:</b>	None

### 6.9b Access Facilities in Place

Facility	Details
<b>Ramps</b>	None
<b>Platform lifts</b>	One rated at 550 pounds
<b>Stair lift</b>	None
<b>Visual indicators for fire alarms</b>	Available
<b>Induction loops / Infrared systems</b>	None
<b>Accessible ADA restrooms</b>	1 ADA and one non-ADA portable Restroom. 1 Accessible toilet in basement of building
<b>Tactile signage</b>	None
<b>On site assistance</b>	Available if needed

<b>Designated ADA parking areas</b>	One accessible car space missing access aisle – should be van accessible space
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### 6.10a Description of Site: Stonybrook Middle School

Description	Details
<b>Date of Construction:</b>	Various
<b>Constructed of:</b>	Traditional Construction
<b>Number of Floors:</b>	None
<b>External Areas:</b>	Athletic Field
<b>Number of Elevators:</b>	None

### 6.10b Access Facilities in Place

Facility	Details
<b>Ramps</b>	None
<b>Platform lifts</b>	None
<b>Stair lift</b>	None
<b>Visual indicators for fire alarms</b>	None
<b>Induction loops / Infrared systems</b>	None

<b>Accessible ADA restrooms</b>	2 Non-ADA Compliant Portable Toilets
<b>Tactile signage</b>	None
<b>On site assistance</b>	Available
<b>Designated ADA parking areas</b>	Accessible parking areas in front of school, at the side field and behind the school.

### 6.11a Description of Site: Westford Academy

Description	Details
<b>Date of Construction:</b>	2000
<b>Constructed of:</b>	Traditional Construction
<b>Number of Floors:</b>	
<b>External Areas:</b>	Athletic Field
<b>Number of Elevators:</b>	1

### 6.11b Access Facilities in Place

Facility	Details
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<b>Ramps</b>	2
<b>Platform lifts</b>	One
<b>Stair lift</b>	None
<b>Visual indicators for fire alarms</b>	Yes
<b>Induction loops / Infrared systems</b>	One
<b>Accessible ADA restrooms</b>	1 seen in areas used for town hall activities
<b>Tactile signage</b>	None
<b>On site assistance</b>	Available
<b>Designated ADA parking areas</b>	Several car accessible spaces. No accessible van spaces.

### 6.12a Description of Site: Westford Museum

Description	Details
<b>Date of Construction:</b>	1734
<b>Constructed of:</b>	Traditional Construction
<b>Number of Floors:</b>	2
<b>External Areas:</b>	Pathway to Liberty Bell seating area
<b>Number of Elevators:</b>	None

## 6.12b Access Facilities in Place

Facility	Details
<b>Ramps</b>	1
<b>Platform lifts</b>	None
<b>Stair lift</b>	None
<b>Visual indicators for fire alarms</b>	Yes
<b>Induction loops / Infrared systems</b>	None
<b>Accessible ADA restrooms</b>	None
<b>Tactile signage</b>	None
<b>On site assistance</b>	Available
<b>Designated ADA parking areas</b>	No accessible parking spaces identified in parking area

## 7. General Accessibility Recommendations

### 7.1 Sunflower Lanyard

The client should consider recognizing the Sunflower Lanyard Scheme, this is also known as the 'hidden disability lanyard'. It indicates persons who may require additional time or assistance. We would suggest also providing the round Sunflower scheme sticker on the service desk within the lodge. Please email [info@directaccess.group](mailto:info@directaccess.group) for more information.



### 7.2 Maximizing Disability Specific Days

There is a wealth of dedicated days or weeks throughout the year aimed to raise awareness of disabilities or specific disabilities. Themed events around these may be an opportunity to raise awareness amongst employees.

Some disability specific days:

- 29 March – 4 April Autism awareness week
- 27 June – 3 July – Deafblind awareness week
- September – Deaf awareness month
- 8 October – World Sight Day / 5-10 Oct – National Braille week
- 3 December – UN International Day of Persons with Disabilities



International  
Day of  
**Persons with  
Disabilities**

**3 DECEMBER**

### 7.3 Tactile Drawings and Maps

Tactile paper maps may be an option to help people to orient themselves and plan routes throughout the town. A map should cover the external locations and key points of internal spaces. They can be easily adjusted when there is a change implemented.

### 7.4 Social Media Tool Kit

A Social Media toolkit should be developed by the town. This would be a useful way of ensuring all the social media is maximized for accessibility. All videos should be subtitled as many people view videos online without sound. American Sign Language should be used for flagship videos.

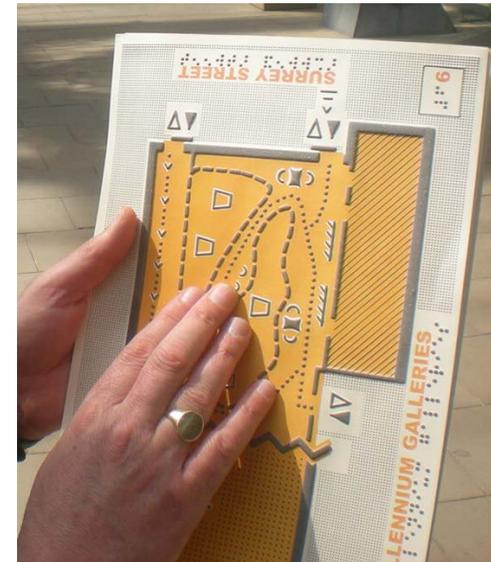
### 7.5 Disability Awareness Courses

Disability awareness training would be a great opportunity for the town staff to ensure that it is as harmonious, collaborative, and non-discriminatory as possible. Disability awareness training would challenge attitudes amongst both those with and without a disability, increasing understanding of disability issues. Courses encourage people to discuss their preconceptions of disability and their fears of interacting with people with disabilities. Awareness courses provide a wealth of information on a range of disabilities, including acquired disabilities, hearing and visual impairments, learning disabilities and issues surrounding mental health. Often role play is also used to encourage people without disabilities to place themselves in the position of someone with a disability, and to encourage empathy and understanding of the experiences many people with disabilities face.

The result would be an increased level of disability awareness amongst Town Hall staff.

### 7.6 Basic ASL Sign Language Courses

It would be beneficial for some basic ASL sign language courses to be implemented. These could not only be used in social media but would also be fun for the staff of the Town Hall. The course could cover areas such as Fingerspelling, Numbers, Colors, Deaf Awareness, Introductions, Family, Relationships, Descriptions, Hobbies, Time, Money, Days, Months, & Seasons, Food & Drink, Emotions and Conversation.



## 7.7 Utilizing Assistive Technology

In the last couple of years there have been some great advances in the use of assistive technology. It is recommended that the town looks at incorporating this within certain areas to assist people with disabilities. For an example of where this is being used, see Google Assistant, Siri, or Amazon Alexa.

'Alexa, turn on the lights'

'Alexa, turn on the television'

'Alexa, contact housekeeping'

'Alexa, open the curtains'

'Alexa, contact reception'

'Hey Google, turn on the lights'

'Hey Google, turn on the television'

'Hey Google, contact housekeeping'

'Siri, turn on the lights'

'Siri, turn on the television'

Siri, contact XXX'

The possibilities are endless and will bring independence for many. This is a good opportunity to get ahead of the game and offer an innovative service.

**It is recommended that a version that has a screen is utilized as this will aid people with a hearing impairment or those who have a speech impediment.**



## 8. Accessibility Report Format

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### 8.1 Report Format

Question	Response	Details
Question from the Direct Access bespoke accessibility checklist to compile the access audit report.	1, 2, 3 – Priority Yes N/A – Not Applicable	A description of the relevant issue and how it affects accessibility and/or usability
1.2 - Do crossings on approach have tactile warning surfaces? Are the crosswalks on approach suitable?	<b>3</b>	The tactile warning surface is worn and should be replaced.

## 8.2 Priority Ratings & Definition

Access Audit & Suggested Action Priority	
<b>high (1)</b>	<b>HIGH PRIORITY</b> – ADA Compliance breach, where there are potential health and safety risks or where failure to implement changes would be highly likely to attract legal implications. Immediate action is recommended to put the changes into effect. Change would also make a substantial difference to the current accessibility.
<b>Important (2)</b>	<b>IMPORTANT PRIORITY</b> - Where action is recommended within the short term to alleviate an access problem or make improvements that will have a considerable impact. These may include quick wins that can be achieved easily/minimal cost.
<b>Moderate (3)</b>	<b>MODERATE PRIORITY</b> - Should be completed as soon as possible, but there may be other items that will provide greater access to persons with disabilities. (includes Findings that have a high financial impact on the entity in relationship to the degree of access provided)
<b>Low (4)</b>	<b>LOW PRIORITY</b> - Should be completed as soon as possible due to being a technical violation but may not result in providing greater access to persons with disabilities. (includes Findings that are technically violations but provide a moderate to low increase in accessibility compared to the financial impact on the entity).
<b>Recommended (5)</b>	<b>RECOMMENDED PRIORITY</b> - Should be completed but not necessarily required. (Includes findings and or elements that may have been in compliance with previous editions of the codes and standards but have since changed. Generally, these items are easily modified to provide the greatest degree of access as well as accomplishments with the most current codes and standards).

## **9. Access Audit Action Plan**

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### **9.1 Common Elements**

### **9.2 Abbott Elementary School**

### **9.3 Lloyd G. Blanchard Middle School**

### **9.4 John A. Crisafulli Elementary**

### **9.5 Norman E. Day School**

### **9.6 Rita Edwards Miller School**

### **9.7 Millenium School**

### **9.8 Parkerville Schoolhouse**

### **9.9 Roudenbush Children's Center at Frost**

### **9.10 Roudenbush Children's Center at Nab**

### **9.11 Stonybrook Middle School**

### **9.12 Westford Academy**

### **9.13 Westford Museum**

## 9.1 Common Elements

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
Recommended	There is no accessible map of the building or any accessible wayfinding.	Direct Access can provide tactile braille map boards utilizing a multitude of formats to ensure inclusion.	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$2,500.00	\$7,500.00
Recommended	There is no paper tactile and braille maps of the building or any accessible wayfinding.	It is recommended that swell paper tactile and braille maps are available for the building on request. Swell paper is a specialist paper that raises black ink once inserted into a heat machine presented increased levels of accessibility for those with visual impairments. Direct Access can design and produce these if desired.	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$500.00	\$1,000.00

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
Recommended	<p>A permanently installed assistive listening system, or other supplementary wiring necessary to support a portable system is not provided.</p> <p>For other assembly areas, a permanently installed assistive listening system, or other supplementary wiring necessary to support a portable assistive listening system shall be provided. The minimum number of receivers to be provided shall be equal to 4% of the total number of seats, but not less than two receivers.</p>	Install assisted listening systems for functions where communication is integral to the use of the space.	2006 521 CMR 14.5.2	\$2,500.00	\$7,500.00
				<b>Budget Low</b>	\$5,500.00
				<b>Budget High</b>	\$16,000.00
				<b>Budget Average</b>	<b>\$10,750.00</b>

## 9.2 Abbot Elementary

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
High	The parking signs are missing.  Accessible parking spaces shall be identified by signs indicating that they are reserved. The sign shall show the international symbol of accessibility.	Install accessible parking signs with isa symbol. Ensure that van spaces also have "van accessible" signage included.	2006 521 CMR 23.6.2, 2006 521 CMR 23.6	\$15,000.00	\$2,800.00
High	The access aisle is not a minimum 8 feet to the centerline of the stripe.  The accessible parking stall access aisle must be a minimum of 8 feet wide measured from centerline to centerline.  Where parking spaces or access aisles are not adjacent to another parking space or access aisle, measurements shall be permitted to include the full width of the line defining the parking space or access aisle.  Alternatively, the stall can be 11 feet wide and the access aisle may be 5 feet wide.	In the two van size spaces in the main parking are ensure each van sized space contains a 96" access aisle.	2010 ADAS 502.2 Exception, 2006 521 CMR 23.4.6(b), 1991 ADAS 4.1.2(1)	\$150.00	\$1,500.00
High	The access aisle is missing at the accessible parking stall.  Access aisles serving parking spaces shall adjoin an accessible route. Two parking spaces shall be permitted to share a common access aisle.	There is an accessible van and car space next to each other. Insert an appropriate sized access aisle between the van and car spaces.	2010 ADAS 502.2, 1991 ADAS 4.1.2(1)	\$1,500.00	\$4,500.00

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
High	<p>Stairways must have handrails on both sides.</p> <p>Handrails and their extensions must be between 34 inches and 38 inches above the stair nosing or ground.</p> <p>The top handrails shall extend a minimum of 12 inches beyond the top nosing and shall be parallel with the floor or ground surface. At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing. Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.</p> <p>The orientation of at least one handrail, including the extension, shall be in the direction of the run of the stair and perpendicular to the direction of the stair nosing. Handrail gripping surfaces with a circular cross section shall have an outside diameter of 1-1/4 inches minimum and 2 inches maximum. Handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4 inches minimum and 6 1/4 inches maximum, and a cross-section dimension of 2-1/4 inches maximum. The hand grip portion of handrails shall have a smooth surface with no sharp corners. Gripping surfaces (top or sides) shall be uninterrupted by newel posts, other construction elements or obstructions. Any wall or other surface adjacent to the handrail shall be free of sharp or abrasive elements. Handrails projecting from a wall shall have a space of 1-1/2 inches minimum between the wall and the handrail.</p>	Extend railing so that is extends 12 inches beyond he upper and lower stair	2010 ADAS 505.2, 2006 521 CMR 27.4.1, 1991 ADAS 4.9.4(1)	\$1,500.00	\$7,500.00
High	<p>The water and drain pipes under the lavatory are not adequately insulated.</p> <p>Water supply and drain pipes under lavatories and sinks shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories and sinks.</p>	Insulate pipes under sink to prevent burns for paralyzed individuals who lack sensation.	2010 ADAS 606.5, 2006 521 CMR 30.9.5, 1991 ADAS 4.19.4	\$150.00	\$1,500.00

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
High	<p>The required coat hook is not provided in the accessible compartment stall.</p> <p>A coat hook shall be provided at a maximum height of 54 inches above the floor.</p>	Install coat hook on the inside of the toilet compartment	2006 521 CMR 30.6.1(d)	\$25.00	\$150.00
Important	Stair nosing lacks color contrast on every step	Ensure stair nosing have color contrast on each step to assist blind and low vision individuals are able to use and access the stairways.	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$150.00	\$950.00

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
High	<p>Compliant room identification signs are missing.</p> <p>Sign shall be located alongside the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors with two active leaves, the sign shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches minimum by 18 inches minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.</p> <p>Wall signs identifying permanent rooms and spaces of a building shall be in a horizontal format and the characters raised 1/32 inch minimum and shall be sans serif uppercase characters a minimum of 5/8 inch and a maximum of 2 inches high. Contracted Grade 2 Braille shall be in a horizontal format and shall be placed a minimum of 3/8 inch and a maximum of 1/2 inch directly below the tactile characters; flush left or centered. Dots shall be 1/10 inch on center in each cell with 2/10-inch space between cells, measured from the second column of dots in the first cell to the first column of dots in the second cell. Dots shall be raised a minimum of 1/40 inch above the background. Braille dots shall be domed or rounded. Signs with raised characters or Braille shall be located 48 inches minimum above the finish floor or ground surface, measured from the baseline of the lowest tactile character and 60 inches maximum above the finish floor or ground surface, measured from the baseline of the highest tactile character.</p>	Ensure all rooms have proper room identification signs on the latch side of the door.	2010 ADAS 703.4.2, 2010 ADAS 216.2, 1991 ADAS 4.30.4	\$150.00	\$1,500.00

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
High	<p>The route contains openings greater than 1/2 inch.</p> <p>Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch diameter. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.</p>	Remove grass and weeds from asphalt areas and repair asphalt to fill and correct all broken pavement areas in sidewalk path of travel on the school grounds to avoid a tripping hazard for all regardless of ability.	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$1,500.00	\$9,500.00
High	<p>An accessible route is not provided within the play area or it does not connect accessible ground level components, elevated components, or the entry and exit points of the play components.</p> <p>At least one accessible route shall be provided within the play area. The accessible route shall connect ground level play components required to be accessible and elevated play components required to be accessible, including entry and exit points of the play components.</p>	Install accessible route and play surface in the entire playground that is firm, stable and slip resistant in accordance with ISTM F 1951-21.	2010 ADAS 206.2.17.1	\$1,500.00	\$9,500.00
High	<p>A minimum of one of each type of ground level play components is not on an accessible route.</p> <p>Where ground level play components are provided, at least one of each type shall be on an accessible route and shall comply.</p>	Install an accessible route to all ground level components to ensure inclusion	2010 ADAS 240.2.1.1	\$1,500.00	\$6,500.00
Recommended	Urinal lacks handrails to provide assistance for individuals with disabilities.	Install grab bars on either side of urinal to assist individuals who are unsteady.	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$150.00	\$450.00

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
Recommended	There is limited review information online about Abbot Elementary School and its facilities. There are no access guides available to assist people with disabilities prior to their visit.	There is limited review information online about Abbott Elementary School and its facilities. There are no access guides available to assist people with disabilities prior to their visit.	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$0.00	\$0.00
Recommended	Street addresses do not always point to the precise locations. This means that people with disabilities sometimes must travel further to gain an accessible point of access. An innovative idea that could be implemented for every site is What3Words.	What3Words has given every 3m in the world a unique 3 word address.. The 3 word address for Abbot Elementary School is //signature.bike.insecurity. Ensure that this address is added to the website.	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$1,500.00	\$9,500.00
				<b>Budget Low</b>	\$24,775.00
				<b>Budget High</b>	\$55,850.00
				<b>Budget Average</b>	<b>\$40,312.50</b>

## 9.3 Blanchard Middle School

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
High	<p>The required number of van accessible stalls is not provided.</p> <p>There are 6 accessible parking stalls including 0 designated for a van.</p> <p>There should be a minimum of 5 accessible parking stalls including a minimum of 1 van accessible stalls.</p>	Install a van accessible space that is 8' wide with an 8' access aisle and a "van accessible sign..	2010 ADAS 208.2.4, 2010 ADAS 208.2, 1991 ADAS 4.1.2(1)	\$150.00	\$350.00
High	<p>The accessible route contains loose gravel and/or surface materials that do not provide for a stable, firm slip resistant surface.</p> <p>Floor and ground surfaces shall be stable, firm, and slip resistant.</p>	Pave the entire access road from the entrance down to the entrance onto the soccer field for access and inclusion purpose..	2010 ADAS 302.1, 2006 521 CMR 29.1, 1991 ADAS 4.5.1	\$250,000.00	\$500,000.00
High	<p>There are not enough accessible toilet compartments. Where toilet compartments are provided, at least one toilet compartment shall be wheelchair accessible.</p> <p>The room contains 1 toilet compartments. A minimum of one must be wheelchair accessible .</p>	Once an accessible route that is firm, stable and slip resistant is installed, install an accessible portable toilet unit to increase inclusion for all regardless of abilities.	2010 ADAS 213.3.1	\$500.00	\$1,200.00

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
Recommended	There is limited review information online about Lloyd G. Blanchard Middle School and its facilities. There are no access guides available to assist people with disabilities prior to their visit.	International Guidances such as BS83090 (British Standards) highlights the importance of communications prior to the visit. Guidance states that clear and accurate pre-visit information via websites, literature, social media or telecommunications that is easy to access should be available. This should be available in alternative formats including details of modes of transport, parking, drop-off and what levels of accessibility to expect upon arrival.	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$0.00	\$0.00
Recommended	Street addresses do not always point to the precise locations. This means that people with disabilities sometimes must travel further to gain an accessible point of access. An innovative idea that could be implemented for every site is What3Words.	What3Words has given every 3m in the world a unique 3 word address. The 3 word address for Lloyd G. Blanchard Middle School is //revisiting.armrests.tank. Ensure that this address is added to the website.	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$0.00	\$0.00
				<b>Budget Low</b>	\$250,650.00
				<b>Budget High</b>	\$501,550.00
				<b>Budget Average</b>	<b>\$376,100.00</b>

## 9.4 John A. Crisafulli Elementary School

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
High	There is a 5 to 6 inch drop between the sidewalk and the street yet due to the similarity in color between the sidewalk, granite curbing and the street, one does not notice the difference in depth until one steps off the sidewalk. This lack of perceivable depth can result in a person falling out of their mobility device into the street.	Highlight the sidewalk granite with fluorescent paint to ensure people are aware there is a hazard and drop between the sidewalk and street area on the school side of the playground.	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$25.00	\$125.00
High	The route contains openings greater than 1/2 inch.  Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch diameter. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.	Remove grass and weeds and patch or repour asphalt on all areas with gaps greater than 1/2" in width.	2010 ADAS 302.3	\$150.00	\$550.00

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
High	Access mat installation failed and came apart under the weight of a 440 pound electric wheelchair causing the wheelchair to sink and become stuck in the 12" of engineered wood fiber underlayment. .	<p>Speak with the manufacturer to ensure stronger enclosure ties are used to permit the mat to bear the weight of an adult in an electric wheelchair. The accessible mat surface should be able to survive the wear and tear of an active play area.</p> <p>Inspect and replace broken tie securement ties as needed.</p>	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$150.00	\$450.00
Recommended	There is limited review information online about Crisafulli Elementary School and its facilities. There are no access guides available to assist people with disabilities prior to their visit.	<p>International Guidances such as BS83090 (British Standards) highlights the importance of communications prior to the visit. Guidance states that clear and accurate pre-visit information via websites, literature, social media or telecommunications that is easy to access should be available This should be available in alternative formats including details of modes of transport, parking, drop-off and what levels of accessibility to expect upon arrival.</p>	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$0.00	\$0.00

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
Recommended	Street addresses do not always point to the precise locations. This means that people with disabilities sometimes must travel further to gain an accessible point of access. An innovative idea that could be implemented for every site is What3Words.	What3Words has given every 3m in the world a unique 3 word address.. The 3 word address for Crisafulli Elementary School is ///foils.tomb.sweatshirt. Ensure that this address is added to the website.	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$0.00	\$0.00
			<b>Budget Low</b>	\$325.00	
			<b>Budget High</b>		\$1,125.00
			<b>Budget Average</b>	<b>\$725.00</b>	

## 9.5 Norman E Day School

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
High	Access to the trash can is not available to someone who is disabled.	Move the trash bin closer to the edge of the brickwork so that a disabled individuals can throw their trash into the bin.	2010 ADAS Advisory, 1991 FHA Requirement 1	\$50.00	\$150.00
High	The path of travel to enter the playground goes from a brick surface to a granite curbing and onto a composite ramp. There is a half inch drop from the granite curb piece to the composite ramp creating a hazard to all regardless of ability.	Consider adding additional fill of gravel under the area where the black ramps sits to make a smooth transition between the brick, granite curbing and composite ramp so that the transition is even between the 3 segments.	2010 ADAS Advisory, 1991 FHA Requirement 1	\$150.00	\$350.00
High	While there are many play components available, a communications board was not seen as part of the playground.	Install a communications board to assist individuals who require it to express themselves and become more inclusive.	2010 ADAS Advisory, 1991 FHA Requirement 1	\$150.00	\$350.00
High	The accessible route to the Wagga play component does not go to the to the entrance point of the play component as required..	Extend the access ramp and route to the entrance of the Wagga play component.	2010 ADAS Advisory, 1991 FHA Requirement 1	\$500.00	\$900.00

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
Recommended	There is limited review information online about the Norman E. Day School its facilities. There are no access guides available to assist people with disabilities prior to their visit.	International Guidances such as BS83090 (British Standards) highlkgights the importance of communications prior to the visit. Guidance states that clear and accurate pre-visit information via websites, literature, social media or telecommunications that is eas to access should be available This should be available in alternative formats including details of modes of transport, parking, drop-off and iwhat levels of accessibility to expect upon arrival.	2010 ADAS Advisory, 1991 FHA Requirement 1	\$0.00	\$0.00
Recommended	Street addresses do not always point to precise locations. This means that people with disabilities sometimes must travel further to gain an accessible point of access . An innovative idea An innovative idea that could be implemented is What3Words	What3Words has given every 3m in the world a unique 3 word address. . The 3 word address for the Norman E. Day School playground is ///rennovated.jump.escalating. Ensure that this address is added to the website.	2010 ADAS Advisory, 1991 FHA Requirement 1	\$0.00	\$0.00

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
Recommended	While the ration of fixed to wheelchair seat spaces is met (15 non-wheelchair seating areas and 1 wheelchair seating area) it may be beneficial to have more than one at a single table available if multiple students with mobility devices are enrolled in the school at the same time or even within the same classroom.	Investigate having seating that can be adjusted or removed to accommodate multiple individuals using mobility devices whether permanently or temporarily.	2010 ADAS Advisory, 1991 FHA Requirement 1	\$350.00	\$3,500.00
				<b>Budget Low</b>	\$1,200.00
				<b>Budget High</b>	\$5,250.00
				<b>Budget Average</b>	<b>\$3,225.00</b>

## 9.6 Rita Edwards Miller Elementary School

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
High	A curb ramp is not provided.  Curb ramps shall be provided wherever an accessible route crosses a curb.	install curb ramp, with landing and truncated dome transition. to enable access for individuals with disabilities.	2006 521 CMR 21.2.1, 2006 521 CMR 21.2, 1991 ADAS 4.7.1	\$1,500.00	\$4,500.00
High	The route contains openings greater than 1/2 inch.  Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch diameter. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.	Clean and patch or repave with asphalt the areas that are a hazard for all regardless of ability.	2010 ADAS 302.3	\$150.00	\$1,500.00
High	Picnic tables are not inclusive for wheelchairs or other mobility devices. Obtain new inclusive design picnic tables that can accommodate w wheeled mobility devices.	Replace existing picnic tables with picnic tables that permit access to those who use mobility devices to ensure inclusion.	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$350.00	\$1,500.00
High	The van stall is missing a sign identifying it as a van accessible stall.  Parking space identification signs shall include the International Symbol of Accessibility. Signs identifying van parking spaces shall contain the designation "van accessible."	Install a new Van Accessible Parking space with proper signage with appropriate access aisle	2010 ADAS 502.6, 2006 521 CMR 23.6.3, 1991 ADAS 4.6.4	\$25.00	\$150.00

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
High	<p>The route contains openings greater than 1/2 inch.</p> <p>Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch diameter. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.</p>	<p>patch area with additional asphalt to ensure ease of access for all</p>	<p>2010 ADAS 302.3</p>	<p>\$150.00</p>	<p>\$1,500.00</p>
Recommended	<p>There is limited review information online about Miller Elementary and its facilities. There are no access guides available to assist people with disabilities prior to their visit.</p>	<p>International Guidances such as BS83090 (British Standards) highlights the importance of communications prior to the visit. Guidance states that clear and accurate pre-visit information via websites, literature, social media or telecommunications that is eas to access should be available This should be available in alternative formats including details of modes of transport, parking, drop-off and what levels of accessibility to expect upon arrival.</p>	<p>2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory</p>	<p>\$0.00</p>	<p>\$0.00</p>

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
Recommended	Street addresses do not always point to the precise locations. This means that people with disabilities sometimes must travel further to gain an accessible point of access. An innovative idea that could be implemented for every site is What3Words.	What3Words has given every 3m in the world a unique 3 word address. The 3 word address for the Rita E. Miller Elementary is //pearls.slanting.legs. Ensure that this address is added to the website.	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$0.00	\$0.00
			<b>Budget Low</b>	\$2,175.00	
			<b>Budget High</b>		\$9,150.00
			<b>Budget Average</b>	<b>\$5,662.50</b>	

## 9.7 Millenium School

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
High	<p>The route contains openings greater than 1/2 inch.</p> <p>Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch diameter. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.</p>	<p>Pave areas from parking lot through and around the Millennium building that are hazards to all regardless of ability.</p>	2010 ADAS 302.3	\$150.00	\$1,500.00

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
High	<p>Compliant room identification signs are missing.</p> <p>Sign shall be located alongside the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors with two active leaves, the sign shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches minimum by 18 inches minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.</p> <p>Wall signs identifying permanent rooms and spaces of a building shall be in a horizontal format and the characters raised 1/32 inch minimum and shall be sans serif uppercase characters a minimum of 5/8 inch and a maximum of 2 inches high. Contracted Grade 2 Braille shall be in a horizontal format and shall be placed a minimum of 3/8 inch and a maximum of 1/2 inch directly below the tactile characters; flush left or centered. Dots shall be 1/10 inch on center in each cell with 2/10-inch space between cells, measured from the second column of dots in the first cell to the first column of dots in the second cell. Dots shall be raised a minimum of 1/40 inch above the background. Braille dots shall be domed or rounded. Signs with raised characters or Braille shall be located 48 inches minimum above the finish floor or ground surface, measured from the baseline of the lowest tactile character and 60 inches maximum above the finish floor or ground surface, measured from the baseline of the highest tactile character.</p>	<p>For every room, entrance and exit ensure identification signs are included on the latch side of the door. Classroom and signs for various rooms (auditorium, kitchen, etc.) must have raised characters and braille.</p>	<p>2010 ADAS 703.4.2, 2010 ADAS 216.2, 1991 ADAS 4.30.4</p>	<p>\$1,500.00</p>	<p>\$2,500.00</p>

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
High	<p>The restroom is missing the International Symbol of Accessibility (ISA).</p> <p>Accessible toilet rooms or bathing rooms shall be identified by the International Symbol of Accessibility (ISA).</p> <p>Wall signs identifying permanent rooms and spaces of a building shall be in a horizontal format and the characters raised 1/32 inch minimum and shall be sans serif uppercase characters a minimum of 5/8 inch and a maximum of 2 inches high. Contracted Grade 2 Braille shall be in a horizontal format and shall be placed a minimum of 3/8 inch and a maximum of 1/2 inch directly below the tactile characters; flush left or centered. Signs with raised characters or Braille shall be located 48 inches minimum above the finish floor or ground surface, measured from the baseline of the lowest tactile character and 60 inches maximum above the finish floor or ground surface, measured from the baseline of the highest tactile character.</p>	<p>Install the appropriate restroom sign with an ISA symbol. The sign should have raised pictographic symbols, lettering and braille.</p>	<p>2010 ADAS 216.8, 1991 ADAS 4.1.3(1)</p>	<p>\$25.00</p>	<p>\$150.00</p>
High	<p>Shelving Unit stored on top of the grab bar at the rear of the toilet makes the grab bar unusable.</p>	<p>Remove shelving unit and consider other option for storing supplies within the accessible toilet compartment.</p>	<p>2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory</p>	<p>\$500.00</p>	<p>\$1,500.00</p>
High	<p>The required coat hook is not provided in the accessible compartment stall.</p> <p>A coat hook shall be provided at a maximum height of 54 inches above the floor.</p>	<p>Install coat hook in the accessible toilet compartment at the appropriate height and within an accessible reach range.</p>	<p>2006 521 CMR 30.6.1(d)</p>	<p>\$25.00</p>	<p>\$150.00</p>

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
High	<p>The water closet compartment is missing a loop handle on both sides of the door.</p> <p>Water closet compartments must be equipped with a door that has a loop or U-shaped handle on both sides of the door immediately below the latch. The latch must be flip-over style, sliding or other hardware not requiring the user to grasp or twist.</p>	Install loop handle on both side of accessible toilet compartment door	2010 ADAS 604.8.1.2, 2006 521 CMR 30.6.1(b), 1991 ADAS 4.13.9	\$25.00	\$150.00
High	There is a lack of color contrast between the chair fabric and the arms of the chair making it difficult for low vision individuals to use the chairs in the meeting room.	Investigate changing the color of the chair arms to make it easier for low vision individuals to use chairs within the meeting room.	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$50.00	\$150.00
High	<p>The element is not positioned correctly for either a side or front approach.</p> <p>Where a clear floor or ground space allows a parallel or front approach and the side reach is unobstructed, the high side reach shall be 48 inches maximum above the finish floor or ground and the low side reach shall be 15 inches minimum above the finish floor or ground.</p>	Lower all room controls to 48" maximum above the finish floor.	2010 ADAS 308.3.1, 2010 ADAS 308.2.1	\$150.00	\$1,500.00
High	<p>The required exit sign with the ISA is missing above the door.</p> <p>In buildings classified in the assembly use and educational use (See 780 CMR 302.0) with an occupancy of over 150 (See 521 CMR 14.1.1), all required egress doors which lead directly to the outside at grade, shall be made accessible at the exterior as well as the interior so as to provide a safe path of travel to a public way for persons who are disabled. Such egress doors shall be provided with illuminated signage identifying accessibility by the use of the international symbol contained within the "exit" sign (See 521 CMR 41.1.3)</p>	Correct Exit Signs to have ISA included	2006 521 CMR 26.1.2	\$500.00	\$4,500.00

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
Recommended	There is limited review information online about the Millennium Building and its facilities. There are no access guides available to assist people with disabilities prior to their visit.	International Guidance such as BS83090 (British Standards) highlights the importance of communications prior to the visit. Guidance states that clear and accurate pre-visit information via websites, literature, social media or telecommunications that is easy to access should be available. This information should be available in alternative formats including details of modes of transport, parking, drop-off and what levels of accessibility to expect upon arrival.	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$0.00	\$0.00
Recommended	Street addresses do not always point to the precise locations. This means that people with disabilities sometimes must travel further to gain an accessible point of access. An innovative idea that could be implemented for every site is What3Words.	What3Words has given every 3m in the world a unique 3 word address. The 3 word address for the Millennium Building is <a href="http://thinnest.relevance.minimalist">http://thinnest.relevance.minimalist</a> . Ensure that this address is added to the website.	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$0.00	\$0.00
<b>Budget Low</b>				\$2,925.00	
<b>Budget High</b>					\$12,100.00
<b>Budget Average</b>				<b>\$7,512.50</b>	

## 9.8 Parkerville Schoolhouse

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
High	<p>There are no accessible parking stalls.</p> <p>Each lot where parking is provided for the public as clients, guests or employees, shall provide accessible parking and shall be located on the shortest accessible route of travel from adjacent parking to an accessible entrance.</p> <p>A minimum of one accessible stall is required and it must be sized and designated as a van accessible stall.</p>	<p>Install one accessible Van parking space 8' wide with an 8' wide access aisle. Ensure that there is an Accessible Parking sign with the ISA symbol and ensure that the sign states "Van Accessible".</p>	<p>2010 ADAS 208.2.4, 1991 ADAS 4.1.2(1)</p>	\$500.00	\$1,250.00
High	<p>The surfaces of the accessible parking spaces and access aisles are not firm, stable, and slip resistant.</p> <p>Floor and ground surfaces shall be stable, firm, and slip resistant</p> <p>Parking spaces and access aisles serving them shall comply with 302. Access aisles shall be at the same level as the parking spaces they serve. Changes in level are not permitted.</p>	<p>Pave gravel and stone dust parking area with asphalt to ensure individuals have a firm, stable and slip resistant surface to park and ambulate across.</p>	<p>2010 ADAS 302.1, 2010 ADAS 502.4</p>	\$1,200.00	\$6,500.00

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
High	<p>There is no accessible route of travel from the public way.</p> <p>At least one accessible route shall be provided within the site from accessible parking spaces and accessible passenger loading zones; public streets and sidewalks; and public transportation stops to the accessible building or facility they serve.</p>	<p>Install an accessible route of travel from the accessible parking area over to the bench by the tree and from the accessible parking area to the concrete surface where access to the ramped entrance to the building begins.</p>	<p>2010 ADAS 206.2.1, 2006 521 CMR 20.2, 1991 ADAS 4.1.2(1)</p>	<p>\$3,500.00</p>	<p>\$9,500.00</p>

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
High	<p>The building entrance is not located on an accessible route.</p> <p>When a building, or portion of a building, is required to be accessible, an accessible route of travel shall be provided to all portions of the building, to accessible building entrances and between the building and the public way.</p> <p>At least one accessible route within the boundary of the site must be provided from public transportation stops, accessible parking and accessible passenger loading zones and public streets or sidewalks to the accessible building entrance they serve.</p> <p>The accessible route shall, to the maximum extent feasible, coincide with the route for the general public. At least one accessible route shall connect accessible buildings, facilities, elements and spaces that are on the same site.</p> <p>At least one accessible route shall connect accessible building or facility entrances with all accessible spaces and elements.</p>	Install an accessible route and fix the cracked broken concrete before the ramp area	2010 ADAS 206.2.1, 2006 521 CMR 20.2, 1991 ADAS 4.1.2(1)	\$150.00	\$1,500.00
High	The ramp has several boards which are rotted and should be replaced.	Replace and refinish the several boards which are rotted and no longer support individuals	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$150.00	\$2,500.00

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
High	There is a 6" step-up from the porch to access the entrance of the building. While a short ramp does exist to gain access to the building, the 16.75 degree angle (30.2% slope) is too steep to accommodate most manual and electric wheelchairs.	Consider having a book available with pictures, details and descriptions so that individuals who can't access the building have an alternative means to access the information on display within the schoolhouse. Ensure that the same information exists in an audio described format for the blind and is closed captioned for hearing impaired individuals.	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$500.00	\$3,500.00
Recommended	There is limited review information online about Parkerville Schoolhouse and its facilities. There are no access guides available to assist people with disabilities prior to their visit.	International Guidance such as BS83090 (British Standards) highlights the importance of communications prior to the visit. Guidance states that clear and accurate pre-visit information via websites, literature, social media or telecommunications that is easy to access should be available This should be available in alternative formats including details of modes of transport, parking, drop-off and what levels of accessibility to expect upon arrival.	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$0.00	\$0.00

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
Recommended	Street addresses do not always point to the precise locations. This means that people with disabilities sometimes must travel further to gain an accessible point of access. An innovative idea that could be implemented for every site is What3Words.	What3Words has given every 3m in the world a unique 3 word address.. The 3 word address for Parkerville Schoolhouse is ///fruity.examine.beware. Ensure that this address is added to the website.	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$0.00	\$0.00
Recommended	The bathroom has several issues: the grab bar is missing from behind the toilet, the sink pipes are not insulated and signage is not provided at the entrance to the toilet area.	Investigate correcting the following violations. Insulation of sink drainage pipes and grab bar should not be impacted by Massachusetts Historical Society limitations. More than likely signage will be limited due to the historical registry listing.	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$250.00	\$1,500.00
Recommended	Door hardware requires twisting or turning which is non-compliant.	Investigate the possibility of replacing existing hardware with accessible level types of hardware. This may not be permitted due to Massachusetts Historical limitations.	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$75.00	\$450.00

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
Recommended	<p>The ramp does not have compliant handrails.</p> <p>Handrails are required on both sides of all surfaces that are sloped greater than 5 percent (1:20). Handrails must be provided in pairs. One must be between 34 inches and 38 inches above the ramp surface and the other must be 18 inches to 20 inches above the ramp surface. Handrails must extend 12 inches beyond the top and bottom of the ramp and be parallel to the floor or ground surface. The diameter of the handrails must be 1 1/4 inches minimum and 2 inches maximum in cross-sectional nominal dimension. The space between handrails and walls must 1 1/2 inches minimum.</p>	Investigate ramp slope - if ramp has a running slope greater than 5 percent a second ramp handrail will be required ramp side closest to the Schoolhouse	2006 521 CMR 24.5	\$250.00	\$1,500.00
				<b>Budget Low</b>	\$6,575.00
				<b>Budget High</b>	\$28,200.00
				<b>Budget Average</b>	<b>\$17,387.50</b>

## 9.9 Children's Center at Frost

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
High	<p>There are no accessible parking stalls.</p> <p>Each lot where parking is provided for the public as clients, guests or employees, shall provide accessible parking and shall be located on the shortest accessible route of travel from adjacent parking to an accessible entrance.</p> <p>There are a total of 30 parking stalls in the parking lot that could be reasonably associated with this facility. There should be a minimum of 1 accessible stalls with a minimum of 1 being designed as van accessible.</p>	<p>Install at least one accessible parking stall 8' wide with an 8' access aisle. Ensure there is an accessible parking sign with an ISA symbol mounted least 5' in height.</p>	2010 ADAS 208.2, 1991 ADAS 4.1.2(5)(a)	\$150.00	\$1,200.00

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
High	<p>The route contains openings greater than 1/2 inch.</p> <p>Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch diameter.</p> <p>Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.</p>	<p>Repave several areas along the path of travel from the Community Center to the School where gapes gaps larger than 1/2".</p>	2010 ADAS 302.3	\$150.00	\$1,500.00
Recommended	<p>There is limited review information online about the Roudenbush Children's Center and its facilities.</p> <p>There are no access guides available to assist people with disabilities prior to their visit.</p>	<p>International Guidance such as BS83090 (British Standards) highlights the importance of communications prior to the visit. Guidance states that clear and accurate pre-visit information via websites, literature, social media or telecommunications that is easy to access should be available This should be available in alternative formats including details of modes of transport, parking, drop-off and what levels of accessibility to expect upon arrival.</p>	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$0.00	\$0.00

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
Recommended	Street addresses do not always point to the precise locations. This means that people with disabilities sometimes must travel further to gain an accessible point of access. An innovative idea that could be implemented for every site is What3Words.	What3Words has given every 3m in the world a unique 3 word address.. The 3 word address for the Roudenbush Children's Center is ///:courtrooms.live.consult. Ensure this address is added to the website.	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$0.00	\$0.00
Recommended	The school lacks basic accessibility features such as ramped entrances, automatic door openers, an elevator, an accessible means of egress and accessible bathroom facilities.	Investigate installing ramped entrances and accessible bathrooms to permit access to at least the main floor and investigate making the entire building accessible tfor individuals with disabilities.	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$1,500.00	\$12,500.00
				<b>Budget Low</b>	\$1,800.00
				<b>Budget High</b>	\$15,200.00
				<b>Budget Average</b>	<b>\$8,500.00</b>

## 9.10 Children's Center at Nabnasset

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
High	The building does not have adequate storage for the amount of excess materials teachers have on hand. An excess of items are stored in every possible space within the building impacting access to the lift and the accessible restroom. Classrooms are overcrowded and space is not available to accommodate students with mobility disabilities. The platform lift and accessible restroom should be clear of all obstacles at all times. Classrooms should have adequate turning space to permit individuals with mobility aids to have the space necessary to maneuver for inclusion purposes.	Conduct a full inventory and purge materials which are not absolutely necessary to the running of current programs within the school. For children on the autistic spectrum, those diagnosed with sensory processing disorder, ADHD, or even children with dyslexia, a busy and cluttered room may contribute to sensory "overload". The clutter adds to daily struggles to be organized, to concentrate, and to keep their bodies calm and still. For those with mobility disabilities additional floor space is needed to permit students with wheelchairs or walkers to move and interact with their peers. An organized, uncluttered, calm, and welcoming room benefits the entire school students and teachers included.	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$150.00	\$650.00
High	Sign on building - Handicapped Parking at Rear is blocked by trees and other growth.	Trim back overgrowth so directional sign to Handicapped Parking area is clearly visible.	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$50.00	\$300.00

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
High	The access aisle is missing at the accessible parking stall.  Access aisles serving parking spaces shall adjoin an accessible route. Two parking spaces shall be permitted to share a common access aisle.	Assign an access aisle to the Handicapped Parking space which lacks an access aisle presently.	2010 ADAS 502.2, 1991 ADAS 4.1.2(1)	\$150.00	\$450.00
High	Areas of the parking lot require to be repaved due to cracks and holes in the surface making it a hazard for all abilities.	Patch and repave impacted areas with asphalt.	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$500.00	\$1,200.00
High	Access to the accessible restroom and access within the accessible restroom is impacted by the area being used to store materials.	Remove all overflow item to permit access to the accessible restroom. Remove materials stored on the floor within the toilet compartment so that someone with a mobility device is able to use the facilities.	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$500.00	\$1,500.00

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
High	<p>Knee and toe clearance has not been provided at the sink.</p> <p>The knee clearance shall be 11 inches deep minimum at 9 inches above the finish floor or ground, and 8 inches deep minimum at 27 inches above the finish floor or ground.</p> <p>The toe clearance is the space under the sink between the finish floor or ground and 9 inches above the finish floor 30 inches wide minimum. The toe clearance shall extend a minimum of 17 inches and a maximum of 25 inches underneath the sink.</p>	Provide access to the sink by removing the cabinetry so someone with a mobility device is able to use the sink with a frontal approach.	2010 ADAS 606.2	\$500.00	\$1,200.00
High	The grassy and sandy surface between the parking lot and picnic table area makes travel difficult for mobility devices.	Install an asphalt or concrete path of travel from the parking lot to the picnic table area	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$1,500.00	\$6,500.00
High	There is a lack of color contrast between the stairs, stair railing and stair nosing making it difficult for blind and low vision individuals to utilize the external stairways	Ensure there is adequate color contrast between the stair, stair nosing, and hand rails to make use of the stairway easier to identify and use by blind and low vision individuals.	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$500.00	\$2,500.00

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
High	Landscape mats that sit over Engineered Wood Fiber (EWF) have ties that are broken and need replacing.	Replace all broken ties with stronger ties. Investigate ties at least every month given use during the school year. Ties and mats deteriorate quickly from exposure to ultraviolet rays.	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$150.00	\$750.00
Recommended	There is limited review information online about Roudenbush Children's Center at NAB and its facilities. There are no access guides available to assist people with disabilities prior to their visit.	International Guidance such as BS83090 (British Standards) highlights the importance of communications prior to the visit. Guidance states that clear and accurate pre-visit information via websites, literature, social media or telecommunications that is easy to access should be available in alternative formats including details of modes of transport, parking, drop-off and what levels of accessibility to expect upon arrival.	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$0.00	\$0.00
Recommended	Street addresses do not always point to precise locations. This means that people with disabilities sometimes must travel further to gain an accessible point of access. An innovative idea that could be implemented for every site is What3Words.	What3Words has given every 3m in the world a unique 3 word address.. The 3 word address for Roudenbush Children's Center at NAB is //usual.ballots.feeds. Ensure that this address is added to the website.	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$0.00	\$0.00

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
Recommended	The elevator certificate states that the platform lift motor is rated to a maximum of 550 pounds. Adult electric wheelchairs average 400 pounds just for the chair while a pediatric electric wheelchair averages 325 pounds. This is before you add the weight of the user. Children and adults are much heavier today than in the past, so lifts installed must address the needs to accommodate this population of individuals.	Investigate installing a new motor with a weight capacity on the order of 800 to 1,000 pounds for safety and inclusion purposes. Ensure that the lift is not used as a storage area for teaching materials.	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$1,500.00	\$6,500.00
Recommended	The required clear space is not provided in the kitchen.  Non-commercial kitchens in public facilities such as classrooms and community rooms shall provide a clear space of 60 inches in diameter, measured 12 inches above the floor.	Investigate the possibility of making the entire kitchen area accessible for someone who uses a mobility device for inclusion purposes.	2006 521 CMR 32.1	\$1,500.00	\$4,500.00
Recommended	Poured in place surface seems very stiff and has little give throughout.	Investigate having surface tested and reviewed to insure it still meets safety specifications.	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$1,500.00	\$3,500.00
				<b>Budget Low</b>	\$8,500.00
				<b>Budget High</b>	\$29,550.00
				<b>Budget Average</b>	<b>\$19,025.00</b>

## 9.11 Stonybrook Middle School

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
High	<p>There are no accessible parking stalls.</p> <p>Each lot where parking is provided for the public as clients, guests or employees, shall provide accessible parking and shall be located on the shortest accessible route of travel from adjacent parking to an accessible entrance.</p> <p>There are a total of 150 parking stalls in the parking lot that could be reasonably associated with this facility. There should be a minimum of 6 accessible stalls with a minimum of 1 being designed as van accessible.</p>	<p>In the side parking areas associated with each field there should be accessible car and accessible van parking spaces and access aisles.</p> <p>Football, track, basketball, tennis, soccer, and baseball fields.</p>	2010 ADAS 208.2, 1991 ADAS 4.1.2(5)(a)	\$350.00	\$4,500.00
High	<p>The accessible route contains loose gravel and/or surface materials that do not provide for a stable, firm slip resistant surface.</p> <p>Floor and ground surfaces shall be stable, firm, and slip resistant.</p>	<p>Pave areas in several field areas identified for inclusion purposes</p>	2010 ADAS 302.1, 2006 521 CMR 29.1, 1991 ADAS 4.5.1	\$500.00	\$4,500.00

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
High	<p>There are no van accessible parking stalls.</p> <p>1 in every 6, minimum of one, required accessible stalls must be a van accessible stall.</p> <p>There are a total of 150 parking stalls in the parking lot that could be reasonably associated with this facility. There should be a minimum of 6 accessible stalls with a minimum of 1 being designed as van accessible.</p>	<p>In the front parking area where the space is 8'wide followed by a corresponding 8' access aisle, install a "van Accessible" sign below the accessible parking space sign.</p>	<p>2010 ADAS 208.2.4, 2010 ADAS 208.2</p>	<p>\$50.00</p>	<p>\$500.00</p>
High	<p>The portable public restroom is not compliant.</p> <p>If sanitary facilities are provided, they must be made accessible to persons with disabilities. If public restrooms are desired, It is recommended that the portable unit be replaced with a permanent built in compliant restroom. The utilization of an accessible portable unit may be a temporary solution and is not recommended as a permanent solution.</p>	<p>Please ;provide an accessible portable restroom in the area where other similar facilities are offered for inclusion purposes.</p>	<p>2010 ADAS 213.1, 1991 ADAS 4.1.2(1)</p>	<p>\$500.00</p>	<p>\$1,500.00</p>

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
High	<p>The knee clearance does not extend a minimum 8 inches under the element at 27 inches above the finished floor.</p> <p>The knee clearance shall be 11 inches deep minimum at 9 inches above the finish floor or ground, and 8 inches deep minimum at 27 inches above the finish floor or ground and 30 inches wide minimum.</p>	<p>Replace current table with table which allows an individual with a mobility devise to have access to get their knees under the table.</p>	2010 ADAS 306.3.3	\$150.00	\$1,500.00
High	<p>The surface of the pedestrian access route has changes in level greater than 1/2 inch or between 1/4 inch and 1/2 inch that are not beveled.</p> <p>Changes in level of 1/4 inch maximum shall be permitted to be vertical. Changes in level between 1/4 inch and 1/2 inch shall be beveled with a slope not steeper than 1:2 (50.0%). Changes in level greater than 1/2 inch up to 6 inches shall have a 1:12 (8.3%) maximum slope. Changes in level greater than 6 inches shall comply with requirements for ramps.</p>	<p>Extend the asphalt to enable access to the seating are on the outside of the fence and extend the asphalt from the gate of the tennis court to a flat portion of the football field.</p> <p>This will enable a smooth transition to the football field.</p>	2023 PROWAG R302.6.2	\$500.00	\$1,500.00

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
High	<p>The surface of the pedestrian access route has openings greater than 1/2 inch.</p> <p>Horizontal openings in gratings and joints shall not permit passage of a sphere more than 13 mm (0.5 in) in diameter.</p>	<p>Patch area between the tennis courts to ensure a smooth transition and to prevent falls regardless of ability.</p>	2023 PROWAG R302.6.3	\$500.00	\$1,500.00
High	<p>The surface of the pedestrian access route has changes in level greater than 1/2 inch or between 1/4 inch and 1/2 inch that are not beveled.</p> <p>Changes in level of 1/4 inch maximum shall be permitted to be vertical. Changes in level between 1/4 inch and 1/2 inch shall be beveled with a slope not steeper than 1:2 (50.0%).</p> <p>Changes in level greater than 1/2 inch up to 6 inches shall have a 1:12 (8.3%) maximum slope.</p> <p>Changes in level greater than 6 inches shall comply with requirements for ramps.</p>	<p>Repave area to prevent individuals from being forced out of their wheelchairs as a result of the deep gash in the pavement area and onto the pavement.</p>	2023 PROWAG R302.6.2	\$500.00	\$1,500.00

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
High	<p>The surface of the pedestrian access route is not firm, stable and slip resistant.</p> <p>The surfaces of pedestrian access routes and elements and spaces along the pedestrian access route that are required to be accessible that connect to pedestrian access routes shall be firm, stable, and slip resistant.</p>	<p>Install a path of asphalt from the driveway over to the pedestrian seating area and entrance to the entrance to the ball field</p>	2023 PROWAG R302.6	\$1,500.00	\$4,500.00
High	<p>The surface of the pedestrian access route is not firm, stable and slip resistant.</p> <p>The surfaces of pedestrian access routes and elements and spaces along the pedestrian access route that are required to be accessible that connect to pedestrian access routes shall be firm, stable, and slip resistant.</p>	<p>Install a pedestrian access route from the parking area to the entrance of the field.</p>	2023 PROWAG R302.6	\$1,500.00	\$4,500.00
High	<p>A curb ramp is not provided.</p> <p>Curb ramps shall be provided wherever an accessible route crosses a curb.</p>	<p>Install curb ramp near the entrance or the accessible path of travel around field</p>	2006 521 CMR 21.2.1, 2006 521 CMR 21.2, 1991 ADAS 4.7.1	\$1,500.00	\$4,500.00

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
High	<p>Stairways must have handrails on both sides.</p> <p>Handrails and their extensions must be between 34 inches and 38 inches above the stair nosing or ground.</p> <p>The top handrails shall extend a minimum of 12 inches beyond the top nosing and shall be parallel with the floor or ground surface. At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing. Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.</p> <p>The orientation of at least one handrail, including the extension, shall be in the direction of the run of the stair and perpendicular to the direction of the stair nosing. Handrail gripping surfaces with a circular cross section shall have an outside diameter of 1-1/4 inches minimum and 2 inches maximum. Handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4 inches minimum and 6 1/4 inches maximum, and a cross-section dimension of 2-1/4 inches maximum. The hand grip portion of handrails</p>	Install handrail s on both sides of stairway leading from parking lot down to field	2010 ADAS 505.2, 2006 521 CMR 27.4.1	\$1,500.00	\$9,500.00

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
High	<p>There are no van accessible parking stalls.</p> <p>1 in every 6, minimum of one, required accessible stalls must be a van accessible stall.</p> <p>There are a total of 89 parking stalls in the parking lot that could be reasonably associated with this facility. There should be a minimum of 4 accessible stalls with a minimum of 1 being designed as van accessible.</p>	<p>Install a Van Accessible sign next to the 8' wide space that has the 8' access aisle next to the parking space.</p>	<p>2010 ADAS 208.2.4, 2010 ADAS 208.2</p>	<p>\$50.00</p>	<p>\$350.00</p>
Recommended	<p>Access to the field is not directly accessible from the parking area. Accessible parking spaces are not located in the area and parking spaces do not have a curb ramp allowing an individual to access the Football field at this entrance point.</p>	<p>Consider installing accessible parking spaces in this area and install a curb ramp with a path of travel between the accessible parking area and an accessible entrance to the football field.</p>	<p>2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory</p>	<p>\$150.00</p>	<p>\$4,500.00</p>

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
Recommended	There is limited review information online about Stony Brook Middle School and its facilities. There are no access guides available to assist people with disabilities prior to their visit.	International Guidances such as BS83090 (British Standards) highlights the importance of communications prior to the visit. Guidance states that clear and accurate pre-visit information via websites, literature, social media or telecommunications that is easy to access should be available. This should be available in alternative formats including details of modes of transport, parking, drop-off and what levels of accessibility to expect upon arrival.	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$0.00	\$0.00
Recommended	Street addresses do not always point to the precise locations. This means that people with disabilities sometimes must travel further to gain an accessible point of access. An innovative idea that could be implemented for every site is What3Words.	What3Words has given every 3m in the world a unique 3 word address. . The 3 word address for Stony Brook Middle School is //fizzled.pulling.imparting. Ensure that this address is added to the website.	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$0.00	\$0.00
				<b>Budget Low</b>	\$9,250.00
				<b>Budget High</b>	\$44,850.00
				<b>Budget Average</b>	<b>\$27,050.00</b>

## 9.12 Westford Academy

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
High	<p>The restroom is missing the International Symbol of Accessibility (ISA).</p> <p>Accessible toilet rooms or bathing rooms shall be identified by the International Symbol of Accessibility (ISA).</p> <p>Wall signs identifying permanent rooms and spaces of a building shall be in a horizontal format and the characters raised 1/32 inch minimum and shall be sans serif uppercase characters a minimum of 5/8 inch and a maximum of 2 inches high. Contracted Grade 2 Braille shall be in a horizontal format and shall be placed a minimum of 3/8 inch and a maximum of 1/2 inch directly below the tactile characters; flush left or centered. Signs with raised characters or Braille shall be located 48 inches minimum above the finish floor or ground surface, measured from the baseline of the lowest tactile character and 60 inches maximum above the finish floor or ground surface, measured from the baseline of the highest tactile character.</p>	<p>Install International Symbol of Accessibility (ISA) on bathroom door. Ensure sign has raised characters, lettering, pictograph, and braille.</p>	<p>2010 ADAS 216.8, 1991 ADAS 4.1.3(1)</p>	\$25.00	\$150.00
High	<p>The coat hook is installed higher than 54 inches above the floor.</p> <p>A coat hook shall be provided at a maximum height of 54 inches above the floor.</p>	<p>Lower the coat hook so the midpoint is no higher than 54" above the finished floor.</p>	<p>2006 521 CMR 30.6.1(d)</p>	\$25.00	\$150.00

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
High	The locking/latching hardware is not accessible.  Hand-activated door opening hardware, handles, pulls, latches, locks, and other operating devices on accessible doors shall have a shape that is easy to grasp with one hand and does not require tight grasping, tight pinching or twisting of the wrist to operate.	Replace door hardware with an accessible latch or handle that does not require grasping or pinching that the current mechanism requires.	2010 ADAS 604.8.1.2, 2006 521 CMR 30.6.1(b), 1991 ADAS 4.13.9	\$150.00	\$350.00
High	The water and drain pipes under the lavatory are not adequately insulated.  Water supply and drain pipes under lavatories and sinks shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories and sinks.	Insure that all pipes under sinks are insulated	2010 ADAS 606.5, 2006 521 CMR 30.9.5, 1991 ADAS 4.19.4	\$150.00	\$1,500.00
Important	Stair nosing is non-compliant there is no color contrast between nosing and stair.	Paint or apply light colored contrasting paint or tape to help identify the stairs for those with visual impairments	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$0.00	\$0.00
Recommended	Street addresses do not always point to the precise locations. This means that people with disabilities sometimes must travel further to gain an accessible point of access. An innovative idea that could be implemented for every site is What3Words.	What3Words has given every 3m in the world a unique 3 word address.. The 3 word address for Westford Academy is ///ceased.fault.targets.. Ensure that this address is added to the website.	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$0.00	\$0.00

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
Recommended	There is limited review information online about Westford Academy and its facilities. There are no access guides available to assist people with disabilities prior to their visit.	International Guidance such as BS83090 (British Standards) highlights the importance of communications prior to the visit. Guidance states that clear and accurate pre-visit information via websites, literature, social media or telecommunications that is easy to access should be available. This should be available in alternative formats including details of modes of transport, parking, drop-off and what levels of accessibility to expect upon arrival.	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$0.00	\$0.00
Recommended	Urinals lack grab bars	Install grab bars on either side of urinal to assist individuals with impairments	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$150.00	\$1,500.00
				<b>Budget Low</b>	\$500.00
				<b>Budget High</b>	\$3,650.00
				<b>Budget Average</b>	<b>\$2,075.00</b>

## 9.13 Westford Museum

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
High	<p>There are no accessible parking stalls.</p> <p>Each lot where parking is provided for the public as clients, guests or employees, shall provide accessible parking and shall be located on the shortest accessible route of travel from adjacent parking to an accessible entrance.</p> <p>A minimum of one accessible stall is required and it must be sized and designated as a van accessible stall.</p>	<p>Install one accessible parking space with an Accessible Parking sign with an ISA symbol. The accessible parking space must be 8' wide with an 8' wide access aisle and Van Accessible sign.</p>	<p>2010 ADAS 208.2.4, 1991 ADAS 4.1.2(1)</p>	\$150.00	\$950.00
High	<p>The surfaces of the accessible parking spaces and access aisles are not firm, stable, and slip resistant.</p> <p>Floor and ground surfaces shall be stable, firm, and slip resistant</p> <p>Parking spaces and access aisles serving them shall comply with 302. Access aisles shall be at the same level as the parking spaces they serve. Changes in level are not permitted.</p>	<p>Repave and repair entire parking lot where cars park in non-defined parking areas.</p>	<p>2010 ADAS 302.1, 2010 ADAS 502.4</p>	\$1,500.00	\$6,500.00
High	<p>The accessible route contains loose gravel and/or surface materials that do not provide for a stable, firm slip resistant surface.</p> <p>Floor and ground surfaces shall be stable, firm, and slip resistant.</p>	<p>Install newly paved complete Accessible route from parking lot to Liberty Bell display</p>	<p>2010 ADAS 302.1, 2006 521 CMR 29.1, 1991 ADAS 4.5.1</p>	\$500.00	\$4,500.00

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
High	<p>The doors have multiple violations.</p> <p>All interior and exterior doors must be maintained so that the operating pressure does not exceed 5 lb. force to open measured at the operating hardware or 30 inches from the hinges whichever is greater. The bottom on the push side must be smooth and free of obstructions (hold open devices). Opening hardware must be mounted between 30 and 48 inches above the floor or ground. The sweep period for doors with closers shall be adjusted so that from an open position of 70 degrees, the door will take at least 3 seconds to move to a point 3 inches from the latch, measured to the leading edge of the door. All doors required to have an EXIT sign above the door must also have a tactile sign adjacent to the door, on the latch side that says EXIT. Characters shall be raised 1/32 inch minimum and shall be sans serif uppercase characters accompanied by contracted Grade 2 Braille. Raised characters shall be a minimum of 5/8 inch and a maximum of 2 inches high. The threshold at a doorway shall be no higher than 1/2 inch. Changes in level at thresholds between 1/4 inch and 1/2 inch must be beveled at 1:2 or less. 1/4 inch is the maximum allowed vertical rise.</p>	<p>Insert an automatic door opener with a speaker system to enable voice communication between internal and external areas at the accessible entrance. Automatic door Opener must be operational while the museum is open.</p>	1991 ADAS 4.13.1	\$150.00	\$4,500.00
High	<p>Door threshold is sagging and needs to be replaced for safety purposes.</p>	<p>Replace sagging and rotted door threshold.</p>	<p>2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory</p>	\$500.00	\$2,500.00

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
High	All information displayed, regardless of height, lack QR codes and other display information necessary to assist blind and low vision customers and visitors from enjoying each displayed item. At the very least signage with raised lettering and braille should be provided for each displayed item.	Ensure that every displayed item has a QR code that blind and low vision individuals are able to identify and gather the appropriate information on each item displayed. Another option is to have a website or a program developed for blind and low vision visitors audio described programs that describes each item displayed. Install at a minimum signage with raised lettering and braille with a description for each displayed item.	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$1,500.00	\$3,500.00

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
High	<p>The toilet compartment does not meet the minimum size requirements.</p> <p>Standard Accessible Toilet Stall: Standard accessible toilet stalls shall be at least 60 inches wide and 72 inches deep. See Fig. 30a and 30b. Arrangements shown for standard accessible toilet stalls may be reversed to allow either a left- or right-hand approach. Water closets in accessible stalls shall be located on the 60 inch (60" = 1524mm) wall and shall comply with 521 CMR 30.7, Water closets.</p>	Investigate installing a unisex accessible restroom able to meet 521cmr and ADA 2010 accessibility requirements	2006 521 CMR 30.6.1	\$1,500.00	\$9,500.00

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
Recommended	There is limited review information online about Westford Museum and its facilities. There are no access guides available to assist people with disabilities prior to their visit.	International Guidance such as BS83090 (British Standards) highlights the importance of communications prior to the visit. Guidance states that clear and accurate pre-visit information via websites, literature, social media or telecommunications that is easy to access should be available. This should be available in alternative formats including details of modes of transport, parking, drop-off and what levels of accessibility to expect upon arrival.	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$0.00	\$0.00
Recommended	There is no accessible map of the building or any accessible wayfinding.	Direct Access can provide tactile braille map boards utilizing a multitude of formats to ensure inclusion.	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$7,500.00	\$12,500.00

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
Recommended	There is no paper tactile and braille maps of the building or any accessible wayfinding.	It is recommended that swell paper tactile and braille maps are available for the building on request. Swell paper is a specialist paper that raises black ink once inserted into a heat machine presented increased levels of accessibility for those with visual impairments. Direct Access can design and produce these if desired.	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$500.00	\$1,000.00
Recommended	<p>A permanently installed assistive listening system, or other supplementary wiring necessary to support a portable system is not provided.</p> <p>For other assembly areas, a permanently installed assistive listening system, or other supplementary wiring necessary to support a portable assistive listening system shall be provided. The minimum number of receivers to be provided shall be equal to 4% of the total number of seats, but not less than two receivers.</p>	Install an assisted listening system in areas where communication is integral to the use of the space	2006 521 CMR 14.5.2	\$2,500.00	\$7,500.00

Barrier Priority	Finding	Recommendation	Barrier Standard	Budget Low	Budget High
Recommended	There is no access for those who use mobility devices to access displays located on the second floor	Investigate installing an external elevator to give those who are unable to climb stairs access to all second floor displays and programs. As an alternative provide a book with pictures and descriptions of all items on the second floor.	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$1,500.00	\$9,500.00
Recommended	Street addresses do not always point to the precise locations. This means that people with disabilities sometimes must travel further to gain an accessible point of access. An innovative idea that could be implemented for every site is What3Words.	What3Words has given every 3m in the world a unique 3 word address.. The 3 word address for the Westford Museum is //because.lawyer.weaves. Ensure that this address is added to the website.	2010 ADAS Advisory, 2006 521 CMR 0.0, 1991 ADAS Advisory	\$0.00	\$0.00

<b>Budget Low</b>	\$17,800.00	
<b>Budget High</b>		\$62,450.00
<b>Budget Average</b>		<b>\$40,125.00</b>

## **10. On Site Findings (BlueDAG)**

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### **10.1 Common Elements**

### **10.2 Abbott Elementary School**

### **10.3 Lloyd G. Blanchard Middle School**

### **10.4 John A. Crisafulli Elementary**

### **10.5 Norman E. Day School**

### **10.6 Rita Edwards Miller School**

### **10.7 Millenium School**

### **10.8 Parkerville Schoolhouse**

### **10.9 Roudenbush Children's Center at Frost**

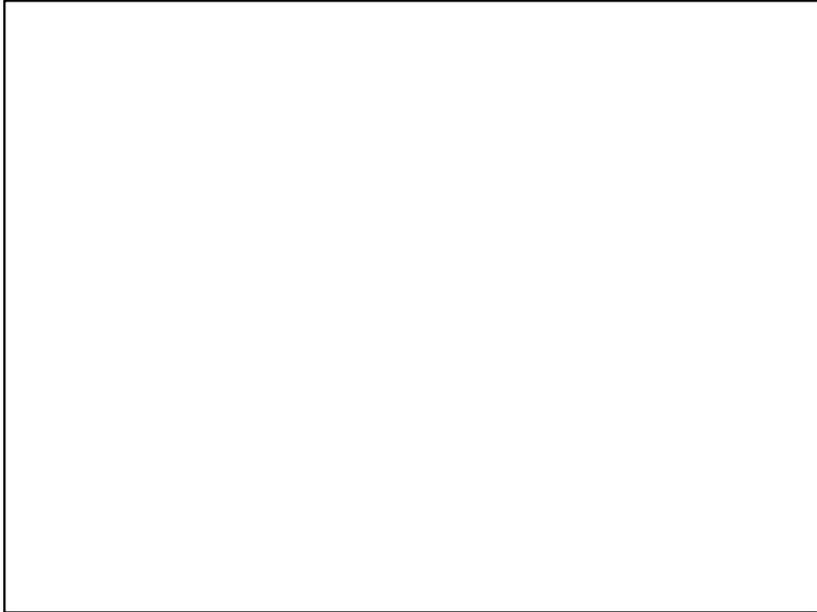
### **10.10 Roudenbush Children's Center at Nab**

### **10.11 Stonybrook Middle School**

### **10.12 Westford Academy**

### **10.13 Westford Museum**

## Site Accessibility Evaluation



**Westford Schools  
Common Elements  
Westford, MA 01886  
Accessibility Evaluation  
Inspection Date: 09/15/2024  
Inspector: Joe Prochilo**

Prepared By

**Direct Access**

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**Westford Schools – Common Elements - Westford, MA 01886**

### External: Wayfinding

#### Finding: 3

There is no accessible map of the building or any accessible wayfinding.

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

#### Citation:

2010 ADAS Section: Advisory

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

#### Budgeting Range:

\$7,500 - \$12,500.00

#### Recommendation:

Direct Access can provide tactile braille map boards utilizing a multitude of formats to ensure inclusion.

#### Barrier Priority:

Recommended (5): Should be completed but not necessarily required. (Includes findings and or elements that may have been in compliance with previous editions of the codes and standards but have since changed. Generally, these items are easily modified to provide the greatest degree of access as well as compliance with the most current codes and standards)

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**External: Wayfinding**

**Finding: 4**

There is no paper tactile and braille maps of the building or any accessible wayfinding.

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

**Citation: Budgeting Range:**

2010 ADAS Section: Advisory \$500 - \$1,000.00

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

**Recommendation:**

It is recommended that swell paper tactile and braille maps are available for the building on request. Swell paper is a specialist paper that raises black ink once inserted into a heat machine presented increased levels of accessibility for those with visual impairments. Direct Access can design and produce these if desired.

**Barrier Priority:**

Recommended (5): Should be completed but not necessarily required. (Includes findings and or elements that may have been in compliance with previous editions of the codes and standards but have since changed. Generally, these items are easily modified to provide the greatest degree of access as well as compliance with the most current codes and standards)

**External: Facilities**

**Finding: 5**

A permanently installed assistive listening system, or other supplementary wiring necessary to support a portable system is not provided.

For other assembly areas, a permanently installed assistive listening system, or other supplementary wiring necessary to support a portable assistive listening system shall be provided. The minimum number of receivers to be provided shall be equal to 4% of the total number of seats, but not less than two receivers.

2006 521 CMR Section 14.5.2  
For other assembly areas, a permanently installed assistive listening system, or other supplementary wiring necessary to support a portable assistive listening system shall be provided. The minimum number of receivers to be provided shall be equal to 4% of the total number of seats, but not less than two receivers.

**Citation: Budgeting Range:**

2006 521 CMR Section: 14.5.2 \$2,500 - \$7,500.00

**Recommendation:**

In each assembly area where audible communication is integral to the use of the space an assisted listening system shall be provided

**Barrier Priority:**

Recommended (5): Should be completed but not necessarily required. (Includes findings and or elements that may have been in compliance with previous editions of the codes and standards but have since changed. Generally, these items are easily modified to provide the greatest degree of access as well as compliance with the most current codes and standards)



## Site Accessibility Evaluation



Abbot Elementary  
25 Depot St  
Westford, MA 01886  
Accessibility Evaluation  
Inspection Date: 08/15/2024  
Inspector: Joe Prochilo

Prepared By

**Direct Access**

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**Abbot Elementary - 25 Depot St Westford, MA 01886**

### External: Parking Lot

#### Finding: 1

The parking signs are missing.

Accessible parking spaces shall be identified by signs indicating that they are reserved. The sign shall show the international symbol of accessibility.

2006 521 CMR Section 23.6

Accessible parking spaces shall be identified by signs indicating that they are reserved.

2006 521 CMR Section 23.6.2

The sign shall show the international symbol of accessibility.

Citation:

Budgeting Range:

2006 521 CMR Section: 23.6, 23.6.2

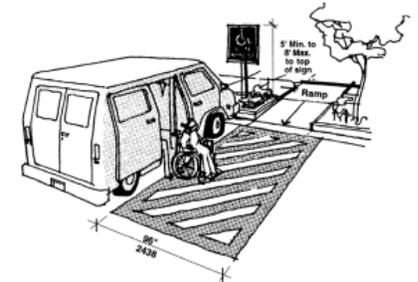
\$15,000 - \$2,800.00

#### Recommendation:

Install accessible parking signs with isa symbol. Ensure that van spaces also have "van accessible" signage included.

#### Barrier Priority:

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



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Finding: 1 Additional Finding Photos



External: Parking Lot

Finding: 2

The access aisle is not a minimum 8 feet to the centerline of the stripe.

The accessible parking stall access aisle must be a minimum of 8 feet wide measured from centerline to centerline.

Where parking spaces or access aisles are not adjacent to another parking space or access aisle, measurements shall be permitted to include the full width of the line defining the parking space or access aisle.

Alternatively, the stall can be 11 feet wide and the access aisle may be 5 feet wide.

2010 ADAS Section 502.2 Exception

Van parking spaces shall be permitted to be 96 inches (2440 mm) wide minimum where the access aisle is 96 inches (2440 mm) wide minimum.

1991 ADAS Section 4.1.2(1)

At least one accessible route complying with 4.3 shall be provided within the boundary of the site from public transportation stops, accessible parking spaces, passenger loading zones if provided, and public streets or sidewalks, to an accessible building entrance.

2006 521 CMR Section 23.4.6(b)

Access aisles adjacent to accessible spaces shall be five feet (5' = 1524mm) wide minimum, except adjacent to van accessible spaces the access aisle shall be a minimum of eight feet (8' = 2438mm) wide.

Citation:

Budgeting Range:

2010 ADAS Section: 502.2 Exception

\$150 - \$1,500.00

1991 ADAS Section: 4.1.2(1)

2006 521 CMR Section: 23.4.6(b)

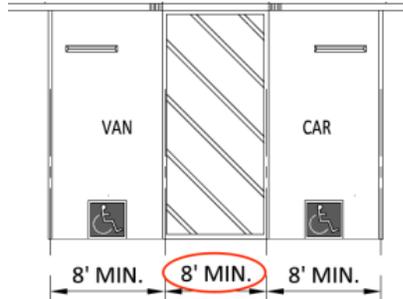
Recommendation:

In the two van size spaces in the main parking are ensure each van sized space contains a 96" access aisle.

Barrier Priority:

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)

Finding: 2 (Continued)



External: Parking Lot

Finding: 3

The access aisle is missing at the accessible parking stall.

Access aisles serving parking spaces shall adjoin an accessible route. Two parking spaces shall be permitted to share a common access aisle.

2010 ADAS Section 502.2

Car parking spaces shall be 96 inches (2440 mm) wide minimum and van parking spaces shall be 132 inches (3350 mm) wide minimum, shall be marked to define the width, and shall have an adjacent access aisle complying with 502.3.

1991 ADAS Section 4.1.2(1)

At least one accessible route complying with 4.3 shall be provided within the boundary of the site from public transportation stops, accessible parking spaces, passenger loading zones if provided, and public streets or sidewalks, to an accessible building entrance.

Citation:

2010 ADAS Section: 502.2

1991 ADAS Section: 4.1.2(1)

Budgeting Range:

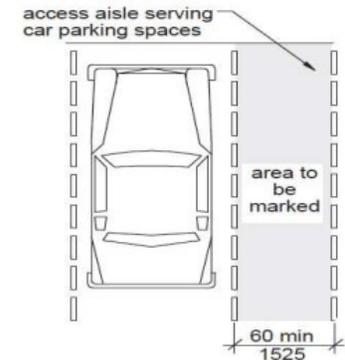
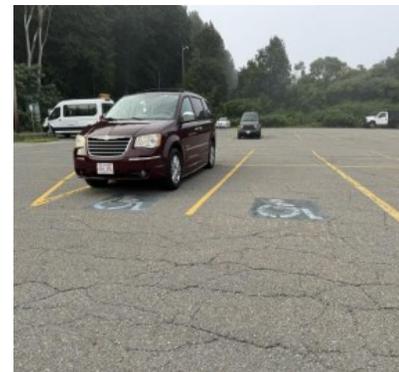
\$1,500 - \$4,500.00

Recommendation:

There is an accessible vsn and car space next to each other. Insert an appropriate sized access aisle between the van and car spaces.

Barrier Priority:

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



External: Pavement Degredation

Finding: 4

The route contains openings greater than 1/2 inch.

Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch diameter. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

Citation:

2010 ADAS Section: Advisory

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

Budgeting Range:

\$1,500 - \$9,500.00

Recommendation:

Remove grass and weeds from asphalt areas and repair asphalt to fill and correct all broken pavement areas in sidewalk path of travel on the school grounds to avoid a tripping hazard for all regardless of ability.

Barrier Priority:

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



Finding: 4 (Continued)



External: Playground

Finding: 5

An accessible route is not provided within the play area or it does not connect accessible ground level components, elevated components, or the entry and exit points of the play components.

At least one accessible route shall be provided within the play area. The accessible route shall connect ground level play components required to be accessible and elevated play components required to be accessible, including entry and exit points of the play components.

2010 ADAS Section 206.2.17.1

At least one accessible route shall be provided within the play area. The accessible route shall connect ground level play components required to comply with 240.2.1 and elevated play components required to comply with 240.2.2, including entry and exit points of the play components.

Citation: 2010 ADAS Section: 206.2.17.1

Budgeting Range: \$1,500 - \$9,500.00

Recommendation:

Install accessible route and play surface in the entire playground that is firm, stable and slip resistant in accordance with ISTM F 1951-21.

Barrier Priority:

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



External: Playground

Finding: 6

A minimum of one of each type of ground level play components is not on an accessible route.

Where ground level play components are provided, at least one of each type shall be on an accessible route and shall comply.

2010 ADAS Section 240.2.1.1

Where ground level play components are provided, at least one of each type shall be on an accessible route and shall comply with 1008.4.

Citation: 2010 ADAS Section: 240.2.1.1

Budgeting Range: \$1,500 - \$6,500.00

Recommendation:

Install an accessible route to all ground level components to ensure inclusion

Barrier Priority:

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



**Internal: Handrails**

**Finding: 10**

Stairways must have handrails on both sides.

Handrails and their extensions must be between 34 inches and 38 inches above the stair nosing or ground. The top handrails shall extend a minimum of 12 inches beyond the top nosing and shall be parallel with the floor or ground surface. At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing. Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.

The orientation of at least one handrail, including the extension, shall be in the direction of the run of the stair and perpendicular to the direction of the stair nosing. Handrail gripping surfaces with a circular cross section shall have an outside diameter of 1-1/4 inches minimum and 2 inches maximum. Handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4 inches minimum and 6 1/4 inches maximum, and a cross-section dimension of 2-1/4 inches maximum. The hand grip portion of handrails shall have a smooth surface with no sharp corners. Gripping surfaces (top or sides) shall be uninterrupted by newel posts, other construction elements or obstructions. Any wall or other surface adjacent to the handrail shall be free of sharp or abrasive elements. Handrails projecting from a wall shall have a space of 1-1/2 inches minimum between the wall and the handrail.

2010 ADAS Section 505.2  
Handrails shall be provided on both sides of stairs and ramps.

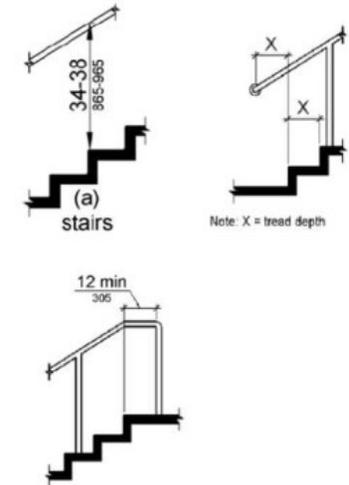
2006 521 CMR Section 27.4.1  
Location: Stairways shall have continuous handrails at both sides of all stairs. The inside handrail on switchback or dogleg stairs shall always be continuous. See Fig. 27c.

<b>Citation:</b>	<b>Budgeting Range:</b>
2010 ADAS Section: 505.2	\$1,500 - \$7,500.00
2006 521 CMR Section: 27.4.1	

**Recommendation:**  
Extend railing so that it extends 12 inches beyond the upper and lower stair

**Barrier Priority:**  
High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)

**Finding: 10 (Continued)**



Internal: Restroom

Finding: 11

The water and drain pipes under the lavatory are not adequately insulated.

Water supply and drain pipes under lavatories and sinks shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories and sinks.

2010 ADAS Section 606.5

Water supply and drain pipes under lavatories and sinks shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories and sinks.

1991 ADAS Section 4.19.4

Hot water and drain pipes under lavatories shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories.

2006 521 CMR Section 30.9.5

Piping: Sink traps and drains shall be located as close to rear walls as possible. Hot water and drain pipes exposed under sinks shall be recessed, insulated, or guarded. There shall be no sharp or abrasive surfaces under sinks.

Citation:

2010 ADAS Section: 606.5

1991 ADAS Section: 4.19.4

2006 521 CMR Section: 30.9.5

Budgeting Range:

\$150 - \$1,500.00

Recommendation:

Insulate pipes under sink to prevent burns for paralyzed individuals who lack sensation.

Barrier Priority:

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



Internal: Restroom

Finding: 12

Urinal lacks handrails to provide assistance for individuals with disabilities.

2010 ADAS Section Advisory None

1991 ADAS Section Advisory None

2006 521 CMR Section 0.0 N/A

Citation:

2010 ADAS Section: Advisory

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

Budgeting Range:

\$150 - \$450.00

Recommendation:

Install grab bars on either side of urinal to assist individuals who are unsteady.

Barrier Priority:

Recommended (5): Should be completed but not necessarily required. (Includes findings and or elements that may have been in compliance with previous editions of the codes and standards but have since changed. Generally, these items are easily modified to provide the greatest degree of access as well as compliance with the most current codes and standards)



**Internal: Restroom**

**Finding: 13**

The required coat hook is not provided in the accessible compartment stall.

A coat hook shall be provided at a maximum height of 54 inches above the floor.

2006 521 CMR Section 30.6.1(d)

A coat hook shall be provided at a maximum height of 54 inches (54" = 1372mm) above the floor.

**Citation:** **Budgeting Range:**

2006 521 CMR Section: 30.6.1(d)

\$25 - \$150.00

**Recommendation:**

Install coat hook on the inside of the toilet compartment

**Barrier Priority:**

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



**Internal: signage**

**Finding: 14**

Compliant room identification signs are missing.

Sign shall be located alongside the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors with two active leaves, the sign shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches minimum by 18 inches minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.

Wall signs identifying permanent rooms and spaces of a building shall be in a horizontal format and the characters raised 1/32 inch minimum and shall be sans serif uppercase characters a minimum of 5/8 inch and a maximum of 2 inches high. Contracted Grade 2 Braille shall be in a horizontal format and shall be placed a minimum of 3/8 inch and a maximum of 1/2 inch directly below the tactile characters; flush left or centered. Dots shall be 1/10 inch on center in each cell with 2/10-inch space between cells, measured from the second column of dots in the first cell to the first column of dots in the second cell. Dots shall be raised a minimum of 1/40 inch above the background. Braille dots shall be domed or rounded. Signs with raised characters or Braille shall be located 48 inches minimum above the finish floor or ground surface, measured from the baseline of the lowest tactile character and 60 inches maximum above the finish floor or ground surface, measured from the baseline of the highest tactile character.

2010 ADAS Section 216.2

Interior and exterior signs identifying permanent rooms and spaces shall comply with 703.1, 703.2, and 703.5. Where pictograms are provided as designations of permanent interior rooms and spaces, the pictograms shall comply with 703.6 and shall have text descriptors complying with 703.2 and 703.5.

2010 ADAS Section 703.4.2

Where a tactile sign is provided at a door, the sign shall be located alongside the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors with two active leaves, the sign shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches (455 mm) minimum by 18 inches (455 mm) minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.

1991 ADAS Section 4.30.4

Letters and numerals shall be raised 1/32 in, upper case, sans serif or simple serif type and shall be accompanied with Grade 2 Braille. Raised characters shall be at least 5/8 in (16 mm) high, but no higher than 2 in (50 mm). Pictograms shall be accompanied by the equivalent verbal description placed directly below the pictogram. The border dimension of the pictogram shall be 6 in (152 mm) minimum in height.

**Citation:** **Budgeting Range:**

2010 ADAS Section: 216.2, 703.4.2

\$150 - \$1,500.00

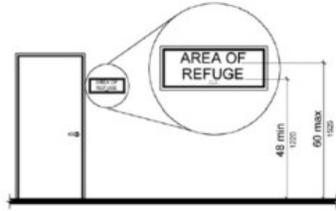
1991 ADAS Section: 4.30.4

**Recommendation:**

Ensure all rooms have proper room identification signs on the latch side of the door.

**Barrier Priority:**

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



**Internal: Stairway**

**Finding: 15**

Stair nosing lacks color contrast on every step

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

**Citation:** **Budgeting Range:**

2010 ADAS Section: Advisory

\$150 - \$950.00

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

**Recommendation:**

Ensure stair nosing have color contrast on each step to assist blind and low vision individuals are able to use and access the stairways.

**Barrier Priority:**

Important (2): Should be completed as soon as possible. (Includes; Findings that would remove barriers to the greatest number of people to your goods and services)



**General: Pre-Visit Information**

**Finding: 16**

There is limited review information online about Abbot Elementary School and its facilities. There are no access guides available to assist people with disabilities prior to their visit.

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

**Citation:**

2010 ADAS Section: Advisory

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

**Recommendation:**

There is limited review information online about Abbott Elementary School and its facilities. There are no access guides available to assist people with disabilities prior to their visit.

**Barrier Priority:**

Recommended (5): Should be completed but not necessarily required. (Includes findings and or elements that may have been in compliance with previous editions of the codes and standards but have since changed. Generally, these items are easily modified to provide the greatest degree of access as well as compliance with the most current codes and standards)

**General: What3Words**

**Finding: 17**

Street addresses do not always point to the precise locations. This means that people with disabilities sometimes must travel further to gain an accessible point of access. An innovative idea that could be implemented for every site is What3Words.

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

**Citation:**

2010 ADAS Section: Advisory

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

**Recommendation:**

What3Words has given every 3m in the world a unique 3 word address.. The 3 word address for Abbot Elementary School is //signature.bike.insecurity. Ensure that this address is added to the website.

**Barrier Priority:**

Recommended (5): Should be completed but not necessarily required. (Includes findings and or elements that may have been in compliance with previous editions of the codes and standards but have since changed. Generally, these items are easily modified to provide the greatest degree of access as well as compliance with the most current codes and standards)

## Site Accessibility Evaluation



**Lloyd G. Blanchard Middle School**  
**14 West St**  
**Westford, MA 01886**  
**Accessibility Evaluation**  
**Inspection Date: 09/15/2024**  
**Inspector: Joe Prochilo**

Prepared By

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Lloyd G. Blanchard Middle School - 14 West St Westford, MA 01886

### Pre-Visit Information: What3Words

#### Finding: 2

Street addresses do not always point to the precise locations. This means that people with disabilities sometimes must travel further to gain an accessible point of access. An innovative idea that could be implemented for every site is What3Words.

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

#### Citation:

2010 ADAS Section: Advisory

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

#### Recommendation:

What3Words has given every 3m in the world a unique 3 word address.. The 3 word address for Lloyd G. Blanchard Middle School is //revisiting. armrests.tank. Ensure that this address is added to the website.

#### Barrier Priority:

Recommended (5): Should be completed but not necessarily required. (Includes findings and or elements that may have been in compliance with previous editions of the codes and standards but have since changed. Generally, these items are easily modified to provide the greatest degree of access as well as compliance with the most current codes and standards)

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Finding: 6 Additional Finding Photos



External: Accessible Restroom

Finding: 8

There are not enough accessible toilet compartments. Where toilet compartments are provided, at least one toilet compartment shall be wheelchair accessible.

The room contains 1 toilet compartments. A minimum of one must be wheelchair accessible .

2010 ADAS Section 213.3.1

Where toilet compartments are provided, at least one toilet compartment shall comply with 604.8.1. In addition to the compartment required to comply with 604.8.1, at least one compartment shall comply with 604.8.2 where six or more toilet compartments are provided, or where the combination of urinals and water closets totals six or more fixtures.

Citation:

2010 ADAS Section: 213.3.1

Budgeting Range:

\$500 - \$1,200.00

Recommendation:

Once an accessible route that is firm, stable and slip resistant is installed, install an accessible portable toilet unit to increase inclusion for all regardless of abilities.

Barrier Priority:

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)

## Site Accessibility Evaluation



**Crisafulli Elementary School**  
**13 Robinson Rd**  
**Westford, MA 01886**  
**Accessibility Evaluation**  
**Inspection Date: 09/15/2024**  
**Inspector: Joe Prochilo**

Prepared By

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**Crisafulli Elementary School - 13 Robinson Rd Westford, MA 01886**

### Pre-Visit Information: Pre-Visit Information

#### Finding: 1

There is limited review information online about Crisafulli Elementary School and its facilities. There are no access guides available to assist people with disabilities prior to their visit.

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

#### Citation:

2010 ADAS Section: Advisory

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

#### Recommendation:

International Guidances such as BS83090 (British Standards) highlights the importance of communications prior to the visit. Guidance states that clear and accurate pre-visit information via websites, literature, social media or telecommunications that is easy to access should be available. This should be available in alternative formats including details of modes of transport, parking, drop-off and what levels of accessibility to expect upon arrival.

#### Barrier Priority:

Recommended (5): Should be completed but not necessarily required. (Includes findings and or elements that may have been in compliance with previous editions of the codes and standards but have since changed. Generally, these items are easily modified to provide the greatest degree of access as well as compliance with the most current codes and standards)

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**Pre-Visit Information: Pre-Visit Information**

**Finding: 2**

Street addresses do not always point to the precise locations. This means that people with disabilities sometimes must travel further to gain an accessible point of access. An innovative idea that could be implemented for every site is What3Words.

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

**Citation:**

2010 ADAS Section: Advisory

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

**Recommendation:**

What3Words has given every 3m in the world a unique 3 word address.. The 3 word address for Crisafulli Elementary School is //foils.tomb.sweatshirt. Ensure that this address is added to the website.

**Barrier Priority:**

Recommended (5): Should be completed but not necessarily required. (Includes findings and or elements that may have been in compliance with previous editions of the codes and standards but have since changed. Generally, these items are easily modified to provide the greatest degree of access as well as compliance with the most current codes and standards)

**External: Playground**

**Finding: 6**

There is a 5 to 6 inch drop between the sidewalk and the street yet due to the similarity in color between the sidewalk, granite curbing and the street, one does not notice the difference in depth until one steps off the sidewalk. This lack of perceivable depth can result in a person falling out of their mobility device into the street.

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

**Citation:**

2010 ADAS Section: Advisory

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

**Budgeting Range:**

\$25 - \$125.00

**Recommendation:**

Highlight the sidewalk granite with fluorescent paint to ensure people are aware there is a hazard and drop between the sidewalk and street area on the school side of the playground.

**Barrier Priority:**

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



External: Playground

Finding: 7

Access mat installation failed and came apart under the weight of a 440 pound electric wheelchair causing the wheelchair to sink and become stuck in the 12" of engineered wood fiber underlayment. .

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

Citation: Budgeting Range:

2010 ADAS Section: Advisory \$150 - \$450.00

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

Recommendation:

Speak with the manufacturer to ensure stronger enclosure ties are used to permit the mat to bear the weight of an adult in an electric wheelchair. The accessible mat surface should be able to survive the wear and tear of an active play area. Inspect and replace broken tie securement ties as needed.

Barrier Priority:

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



External: Parking

Finding: 8

The route contains openings greater than 1/2 inch.

Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch diameter. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.

2010 ADAS Section 302.3

Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch (13 mm) diameter except as allowed in 407.4.3, 409.4.3, 410.4, 810.5.3 and 810.10. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.

Citation: Budgeting Range:

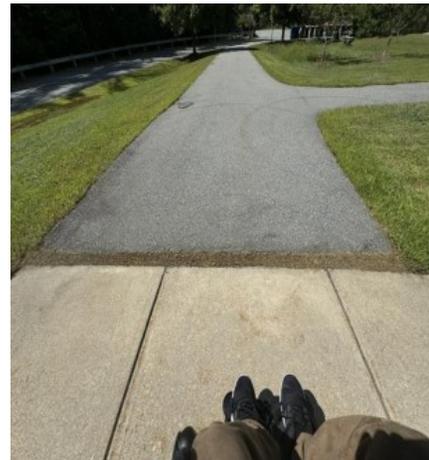
2010 ADAS Section: 302.3 \$150 - \$550.00

Recommendation:

Remove grass and weeds and patch or repour asphalt on all areas with gaps greater than 1/2" in width.

Barrier Priority:

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



## Site Accessibility Evaluation



**Norman E. Day School**  
**75 E Prescott St Westford, MA**  
**01886 Accessibility Evaluation**  
**Inspection Date: 09/15/2024**  
**Inspector: Joseph Prochilo**

Prepared By

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**Norman E. Day School - 75 E Prescott St Westford, MA 01886**

### Pre-Visit Information: Limited Site Information

#### Finding: 1

There is limited review information online about the Norman E. Day School its facilities. There are no access guides available to assist people with disabilities prior to their visit.

2010 ADAS Section Advisory  
None

1991 FHA Section Requirement 1  
Under section 100.205(a), covered multifamily dwellings shall be designed and constructed to have at least one building entrance on an accessible route, unless it is impractical to do so because of terrain or unusual characteristics of the site.

#### Citation:

2010 ADAS Section: Advisory

1991 FHA Section: Requirement 1

#### Recommendation:

International Guidances such as BS83090 (British Standards) highlights the importance of communications prior to the visit. Guidance states that clear and accurate pre-visit information via websites, literature, social media or telecommunications that is eas to access should be available This should be available in alternative formats including details of modes of transport, parking, drop-off and iwhat levels of accessibility to expect upon arrival.

#### Barrier Priority:

Recommended (5): Should be completed but not necessarily required. (Includes findings and or elements that may have been in compliance with previous editions of the codes and standards but have since changed. Generally, these items are easily modified to provide the greatest degree of access as well as compliance with the most current codes and standards)

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**Pre-Visit Information: Address does not point to accessible entrance**

**Finding: 2**

Street addresses do not always point to precise locations. This means that people with disabilities sometimes must travel further to gain an accessible point of access. An innovative idea An innovative idea that could be implemented is What3Words

2010 ADAS Section Advisory  
None

1991 FHA Section Requirement 1  
Under section 100.205(a), covered multifamily dwellings shall be designed and constructed to have at least one building entrance on an accessible route, unless it is impractical to do so because of terrain or unusual characteristics of the site.

**Citation:**

2010 ADAS Section: Advisory

1991 FHA Section: Requirement 1

**Recommendation:**

What3Words has given every 3m in the world a unique 3 word address. . The 3 word address for the Norman E. Day School playground is ///rennovated.jump.escalating.  
Ensure that this address is added to the website.

**Barrier Priority:**

Recommended (5): Should be completed but not necessarily required. (Includes findings and or elements that may have been in compliance with previous editions of the codes and standards but have since changed. Generally, these items are easily modified to provide the greatest degree of access as well as compliance with the most current codes and standards)

**External: Playground**

**Finding: 6**

The path of travel to enter the playground goes from a brick surface to a granite curbing and onto a composite ramp. There is a half inch drop from the granite curb piece to the composite ramp creating a hazard to all regardless of ability.

2010 ADAS Section Advisory  
None

1991 FHA Section Requirement 1  
Under section 100.205(a), covered multifamily dwellings shall be designed and constructed to have at least one building entrance on an accessible route, unless it is impractical to do so because of terrain or unusual characteristics of the site.

**Citation:**

2010 ADAS Section: Advisory

1991 FHA Section: Requirement 1

**Budgeting Range:**

\$150 - \$350.00

**Recommendation:**

Consider adding additional fill of gravel under the area where the black ramps sits to make a smooth transition between the brick, granite curbing and composite ramp so that the transition is even between the 3 segments.

**Barrier Priority:**

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



**External: Playground**

**Finding: 7**

While there are many play components available, a communications board was not seen as part of the playground.

2010 ADAS Section Advisory  
None

1991 FHA Section Requirement 1  
Under section 100.205(a), covered multifamily dwellings shall be designed and constructed to have at least one building entrance on an accessible route, unless it is impractical to do so because of terrain or unusual characteristics of the site.

<b>Citation:</b>	<b>Budgeting Range:</b>
2010 ADAS Section: Advisory	\$150 - \$350.00
1991 FHA Section: Requirement 1	

**Recommendation:**  
Install a communications board to assist individuals who require it to express themselves and become more inclusive.

**Barrier Priority:**  
High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



**External: Playground**

**Finding: 8**

The accessible route to the Wagga play component does not go to the to the entrance point of the play component as required..

2010 ADAS Section Advisory  
None

1991 FHA Section Requirement 1  
Under section 100.205(a), covered multifamily dwellings shall be designed and constructed to have at least one building entrance on an accessible route, unless it is impractical to do so because of terrain or unusual characteristics of the site.

<b>Citation:</b>	<b>Budgeting Range:</b>
2010 ADAS Section: Advisory	\$500 - \$900.00
1991 FHA Section: Requirement 1	

**Recommendation:**  
Extend the access ramp and route to the entrance of the Wagga play component.

**Barrier Priority:**  
High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



**External: Covered Picnic Table Area**

**Finding: 9**

While the ratio of fixed to wheelchair seat spaces is met (15 non-wheelchair seating areas and 1 wheelchair seating area) it may be beneficial to have more than one at a single table available if multiple students with mobility devices are enrolled in the school at the same time or even within the same classroom.

2010 ADAS Section Advisory  
None

1991 FHA Section Requirement 1  
Under section 100.205(a), covered multifamily dwellings shall be designed and constructed to have at least one building entrance on an accessible route, unless it is impractical to do so because of terrain or unusual characteristics of the site.

**Citation:** **Budgeting Range:**

2010 ADAS Section: Advisory

\$350 - \$3,500.00

1991 FHA Section: Requirement 1

**Recommendation:**

Investigate having seating that can be adjusted or removed to accommodate multiple individuals using mobility devices whether permanently or temporarily.

**Barrier Priority:**

Recommended (5): Should be completed but not necessarily required. (Includes findings and or elements that may have been in compliance with previous editions of the codes and standards but have since changed. Generally, these items are easily modified to provide the greatest degree of access as well as compliance with the most current codes and standards)



**External: Covered Picnic Table Area**

**Finding: 10**

Access to the trash can is not available to someone who is disabled.

2010 ADAS Section Advisory  
None

1991 FHA Section Requirement 1  
Under section 100.205(a), covered multifamily dwellings shall be designed and constructed to have at least one building entrance on an accessible route, unless it is impractical to do so because of terrain or unusual characteristics of the site.

**Citation:** **Budgeting Range:**

2010 ADAS Section: Advisory

\$50 - \$150.00

1991 FHA Section: Requirement 1

**Recommendation:**

Move the trash bin closer to the edge of the brickwork so that a disabled individuals can throw their trash into the bin.

**Barrier Priority:**

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



## Site Accessibility Evaluation



**Rita Edwards Miller Elementary School**  
**1 Mitchell Way**  
**Westford, MA 01886**  
**Accessibility Evaluation**  
**Inspection Date: 09/15/2024**  
**Inspector: Joe Prochilo**

Prepared By

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**Rita Edwards Miller Elementary School - 1 Mitchell Way Westford, MA 01886**

**Pre-Visit Information: Limited Information**

### Finding: 1

There is limited review information online about Miller Elementary and its facilities. There are no access guides available to assist people with disabilities prior to their visit.

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

### Citation:

2010 ADAS Section: Advisory

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

### Recommendation:

International Guidances such as BS83090 (British Standards) highlights the importance of communications prior to the visit. Guidance states that clear and accurate pre-visit information via websites, literature, social media or telecommunications that is eas to access should be available This should be available in alternative formats including details of modes of transport, parking, drop-off and what levels of accessibility to expect upon arrival.

### Barrier Priority:

Recommended (5): Should be completed but not necessarily required. (Includes findings and or elements that may have been in compliance with previous editions of the codes and standards but have since changed. Generally, these items are easily modified to provide the greatest degree of access as well as compliance with the most current codes and standards)

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**Pre-Visit Information: Accessible Address**

**Finding: 2**

Street addresses do not always point to the precise locations. This means that people with disabilities sometimes must travel further to gain an accessible point of access. An innovative idea that could be implemented for every site is What3Words.

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

**Citation:**

2010 ADAS Section: Advisory

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

**Recommendation:**

What3Words has given every 3m in the world a unique 3 word address. . The 3 word address for the Rita E. Miller Elementary is //pearls.slanting.legs. Ensure that this address is added to the website.

**Barrier Priority:**

Recommended (5): Should be completed but not necessarily required. (Includes findings and or elements that may have been in compliance with previous editions of the codes and standards but have since changed. Generally, these items are easily modified to provide the greatest degree of access as well as compliance with the most current codes and standards)

**External: Grounds**

**Finding: 6**

A curb ramp is not provided.

Curb ramps shall be provided wherever an accessible route crosses a curb.

1991 ADAS Section 4.7.1  
Curb ramps complying with 4.7 shall be provided wherever an accessible route crosses a curb.

2006 521 CMR Section 21.2  
Curb cuts shall occur wherever an accessible route crosses a curb and at the following locations:

2006 521 CMR Section 21.2.1  
Curb cuts are required at each corner of each intersection, located within the crosswalk and/or the pedestrian path of travel. Curb cuts shall be perpendicular to the curb at street crossings and each shall have a level landing at the top. At marked crossings, the bottom of the ramp run, exclusive of flared sides, shall be wholly contained with the marked crossing. See Fig. 21a. The crosswalk/pedestrian path of travel must also be perpendicular to the curb.

**Citation:**

1991 ADAS Section: 4.7.1

2006 521 CMR Section: 21.2, 21.2.1

**Budgeting Range:**

\$1,500 - \$4,500.00

**Recommendation:**

install curb ramp, with landing and truncated dome transition. to enable access for individuals with disabilities.

**Barrier Priority:**

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



**External: Play Area at Front of School**

**Finding: 7**

The route contains openings greater than 1/2 inch.

Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch diameter. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.

2010 ADAS Section 302.3

Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch (13 mm) diameter except as allowed in 407.4.3, 409.4.3, 410.4, 810.5.3 and 810.10. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.

**Citation:** Budgeting Range:

2010 ADAS Section: 302.3 \$150 - \$1,500.00

**Recommendation:**

patch area with additional asphalt to ensure ease of access for all

**Barrier Priority:**

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



**Finding: 7 Additional Finding Photos**



**External: Play Area at Rear of School**

**Finding: 8**

The route contains openings greater than 1/2 inch.

Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch diameter. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.

2010 ADAS Section 302.3

Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch (13 mm) diameter except as allowed in 407.4.3, 409.4.3, 410.4, 810.5.3 and 810.10. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.

**Citation:**

2010 ADAS Section: 302.3

**Budgeting Range:**

\$150 - \$1,500.00

**Recommendation:**

Clean and patch or repave with asphalt the areas that are a hazard for all regardless of ability.

**Barrier Priority:**

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



**Finding: 8 Additional Finding Photos**



External: Play Area at Rear of School

Finding: 9

Picnic tables are not inclusive for wheelchairs or other mobility devices. Obtain new inclusive design picnic tables that can accommodate w wheeled mobility devices.

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

Citation: Budgeting Range:

2010 ADAS Section: Advisory \$350 - \$1,500.00

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

Recommendation:

Replace existing picnic tables with picnic tables that permit access to those who use mobility devices to ensure inclusion.

Barrier Priority:

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



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External: Parking Lot

Finding: 10

The van stall is missing a sign identifying it as a van accessible stall.

Parking space identification signs shall include the International Symbol of Accessibility. Signs identifying van parking spaces shall contain the designation "van accessible."

2010 ADAS Section 502.6  
Parking space identification signs shall include the International Symbol of Accessibility complying with 703.7.2.1. Signs identifying van parking spaces shall contain the designation "van accessible." Signs shall be 60 inches (1525 mm) minimum above the finish floor or ground surface measured to the bottom of the sign.

1991 ADAS Section 4.6.4  
Accessible parking spaces shall be designated as reserved by a sign showing the symbol of accessibility (see 4.30.7). Spaces complying with 4.1.2(5)(b) shall have an additional sign "Van-Accessible" mounted below the symbol of accessibility. Such signs shall be located so they cannot be obscured by a vehicle parked in the space.

2006 521 CMR Section 23.6.3  
Van accessible spaces shall includes the words: "Van-Accessible".

Citation: Budgeting Range:

2010 ADAS Section: 502.6 \$25 - \$150.00

1991 ADAS Section: 4.6.4

2006 521 CMR Section: 23.6.3

Recommendation:

Install a new Van Accessible Parking space with proper signage with appropriate access aisle

Barrier Priority:

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



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## Site Accessibility Evaluation



**Millenium Building**  
**23 Depot St**  
**Westford, MA 01886**  
**Accessibility Evaluation**  
**Inspection Date: 09/15/2024**  
**Inspector: Joe Prochilo**

Prepared By

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**Millenium Building - 23 Depot St Westford, MA 01886**

### General: Pre-Visit Information

#### Finding: 1

There is limited review information online about the Millennium Building and its facilities. There are no access guides available to assist people with disabilities prior to their visit.

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

#### Citation:

2010 ADAS Section: Advisory

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

#### Recommendation:

International Guidance such as BS83090 (British Standards) highlights the importance of communications prior to the visit. Guidance states that clear and accurate pre-visit information via websites, literature, social media or telecommunications that is easy to access should be available. This information should be available in alternative formats including details of modes of transport, parking, drop-off and what levels of accessibility to expect upon arrival.

#### Barrier Priority:

Recommended (5): Should be completed but not necessarily required. (Includes findings and or elements that may have been in compliance with previous editions of the codes and standards but have since changed. Generally, these items are easily modified to provide the greatest degree of access as well as compliance with the most current codes and standards)

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**General: Pre-Visit Information**

**Finding: 2**

Street addresses do not always point to the precise locations. This means that people with disabilities sometimes must travel further to gain an accessible point of access. An innovative idea that could be implemented for every site is What3Words.

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

**Citation:**

2010 ADAS Section: Advisory

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

**Recommendation:**

What3Words has given every 3m in the world a unique 3 word address. The 3 word address for the Millennium Building is //thinnest.relevance.minimalist. Ensure that this address is added to the website.

**Barrier Priority:**

Recommended (5): Should be completed but not necessarily required. (Includes findings and or elements that may have been in compliance with previous editions of the codes and standards but have since changed. Generally, these items are easily modified to provide the greatest degree of access as well as compliance with the most current codes and standards)

**External: Accessible Route**

**Finding: 3**

The route contains openings greater than 1/2 inch.

Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch diameter. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.

2010 ADAS Section 302.3

Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch (13 mm) diameter except as allowed in 407.4.3, 409.4.3, 410.4, 810.5.3 and 810.10. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.

**Citation:**

2010 ADAS Section: 302.3

**Budgeting Range:**

\$150 - \$1,500.00

**Recommendation:**

Pave areas from parking lot through and around the Millennium building that are hazards to all regardless of ability.

**Barrier Priority:**

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



**Internal: Signage**

**Finding: 7**

Compliant room identification signs are missing.

Sign shall be located alongside the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors with two active leaves, the sign shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches minimum by 18 inches minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.

Wall signs identifying permanent rooms and spaces of a building shall be in a horizontal format and the characters raised 1/32 inch minimum and shall be sans serif uppercase characters a minimum of 5/8 inch and a maximum of 2 inches high. Contracted Grade 2 Braille shall be in a horizontal format and shall be placed a minimum of 3/8 inch and a maximum of 1/2 inch directly below the tactile characters; flush left or centered. Dots shall be 1/10 inch on center in each cell with 2/10-inch space between cells, measured from the second column of dots in the first cell to the first column of dots in the second cell. Dots shall be raised a minimum of 1/40 inch above the background. Braille dots shall be domed or rounded. Signs with raised characters or Braille shall be located 48 inches minimum above the finish floor or ground surface, measured from the baseline of the lowest tactile character and 60 inches maximum above the finish floor or ground surface, measured from the baseline of the highest tactile character.

*2010 ADAS Section 216.2*

*Interior and exterior signs identifying permanent rooms and spaces shall comply with 703.1, 703.2, and 703.5. Where pictograms are provided as designations of permanent interior rooms and spaces, the pictograms shall comply with 703.6 and shall have text descriptors complying with 703.2 and 703.5.*

*2010 ADAS Section 703.4.2*

*Where a tactile sign is provided at a door, the sign shall be located alongside the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors with two active leaves, the sign shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches (455 mm) minimum by 18 inches (455 mm) minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.*

*1991 ADAS Section 4.30.4*

*Letters and numerals shall be raised 1/32 in, upper case, sans serif or simple serif type and shall be accompanied with Grade 2 Braille. Raised characters shall be at least 5/8 in (16 mm) high, but no higher than 2 in (50 mm). Pictograms shall be accompanied by the equivalent verbal description placed directly below the pictogram. The border dimension of the pictogram shall be 6 in (152 mm) minimum in height.*

**Citation:**

2010 ADAS Section: 216.2, 703.4.2

1991 ADAS Section: 4.30.4

**Budgeting Range:**

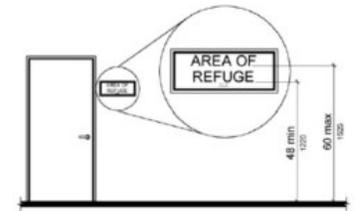
\$1,500 - \$2,500.00

**Recommendation:**

For every room, entrance and exit ensure identification signs are included on the latch side of the door. Classroom and signs for various rooms (auditorium, kitchen, etc.) must have raised characters and braille.

**Barrier Priority:**

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



Internal: Restrooms

Finding: 8

The restroom is missing the International Symbol of Accessibility (ISA).

Accessible toilet rooms or bathing rooms shall be identified by the International Symbol of Accessibility (ISA).

Wall signs identifying permanent rooms and spaces of a building shall be in a horizontal format and the characters raised 1/32 inch minimum and shall be sans serif uppercase characters a minimum of 5/8 inch and a maximum of 2 inches high. Contracted Grade 2 Braille shall be in a horizontal format and shall be placed a minimum of 3/8 inch and a maximum of 1/2 inch directly below the tactile characters; flush left or centered. Signs with raised characters or Braille shall be located 48 inches minimum above the finish floor or ground surface, measured from the baseline of the lowest tactile character and 60 inches maximum above the finish floor or ground surface, measured from the baseline of the highest tactile character.

2010 ADAS Section 216.8

Where existing toilet rooms or bathing rooms do not comply with 603, directional signs indicating the location of the nearest toilet room or bathing room complying with 603 within the facility shall be provided. Signs shall comply with 703.5 and shall include the International Symbol of Accessibility complying with 703.7.2.1. Where existing toilet rooms or bathing rooms do not comply with 603, the toilet rooms or bathing rooms complying with 603 shall be identified by the International Symbol of Accessibility complying with 703.7.2.1. Where clustered single user toilet rooms or bathing facilities are permitted to use exceptions to 213.2, toilet rooms or bathing facilities complying with 603 shall be identified by the International Symbol of Accessibility complying with 703.7.2.1 unless all toilet rooms and bathing facilities comply with 603.

1991 ADAS Section 4.1.3(1)

At least one accessible route complying with 4.3 shall connect accessible building or facility entrances with all accessible spaces and elements within the building or facility.

Citation: Budgeting Range:

2010 ADAS Section: 216.8 \$25 - \$150.00

1991 ADAS Section: 4.1.3(1)

Recommendation:

Install the appropriate restroom sign with an ISA symbol. The sign should have raised pictographic symbols, lettering and braille.

Barrier Priority:

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)

Finding: 8 (Continued)



**Internal: Restrooms**

**Finding: 9**

Shelving Unit stored on top of the grab bar at the rear of the toilet makes the grab bar unusable.

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

**Citation:** **Budgeting Range:**

2010 ADAS Section: Advisory

\$500 - \$1,500.00

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

**Recommendation:**

Remove shelving unit and consider other option for storing supplies within the accessible toilet compartment.

**Barrier Priority:**

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



**Internal: Restrooms**

**Finding: 10**

The required coat hook is not provided in the accessible compartment stall.

A coat hook shall be provided at a maximum height of 54 inches above the floor.

2006 521 CMR Section 30.6.1(d)

A coat hook shall be provided at a maximum height of 54 inches (54" = 1372mm) above the floor.

**Citation:** **Budgeting Range:**

2006 521 CMR Section: 30.6.1(d)

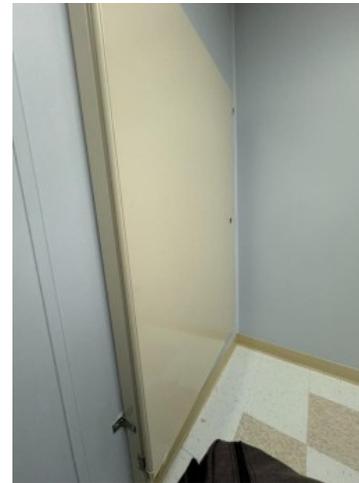
\$25 - \$150.00

**Recommendation:**

Install coat hook in the accessible toilet compartment at the appropriate height and within an accessible reach range.

**Barrier Priority:**

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



Internal: Restrooms

Finding: 11

The water closet compartment is missing a loop handle on both sides of the door.

Water closet compartments must be equipped with a door that has a loop or U-shaped handle on both sides of the door immediately below the latch. The latch must be flip-over style, sliding or other hardware not requiring the user to grasp or twist.

2010 ADAS Section 604.8.1.2

Toilet compartment doors, including door hardware, shall comply with 404 except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. Doors shall be located in the front partition or in the side wall or partition farthest from the water closet. Where located in the front partition, the door opening shall be 4 inches (100 mm) maximum from the side wall or partition farthest from the water closet. Where located in the side wall or partition, the door opening shall be 4 inches (100 mm) maximum from the front partition. The door shall be self-closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.

1991 ADAS Section 4.13.9

Handles, pulls, latches, locks, and other operating devices on accessible doors shall have a shape that is easy to grasp with one hand and does not require tight grasping, tight pinching, or twisting of the wrist to operate. Lever-operated mechanisms, push-type mechanisms, and U-shaped handles are acceptable designs. When sliding doors are fully open, operating hardware shall be exposed and usable from both sides. Hardware required for accessible door passage shall be mounted no higher than 48 in (1220 mm) above finished floor.

2006 521 CMR Section 30.6.1(b)

The stall door shall have an automatic self-closing hinge device, a pull device on both sides of the door to assist in closing and opening the door, and a lock located approximately 36 inches (36" =914mm) above the floor that does not require tight grasping, pinching, or twisting of the wrist to operate.

Citation: Budgeting Range:

2010 ADAS Section: 604.8.1.2 \$25 - \$150.00

1991 ADAS Section: 4.13.9

2006 521 CMR Section: 30.6.1(b)

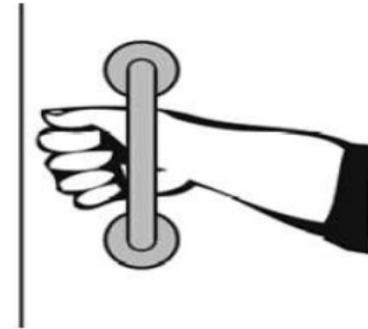
Recommendation:

Install loop handle on both side of accessible toilet compartment door

Barrier Priority:

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)

Finding: 11 (Continued)



Internal: Meeting Room

Finding: 12

There is a lack of color contrast between the chair fabric and the arms of the chair making it difficult for low vision individuals to use the chairs in the meeting room.

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

Citation: Budgeting Range:

2010 ADAS Section: Advisory \$50 - \$150.00

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

Recommendation:

Investigate changing the color of the chair arms to make it easier for low vision individuals to use chairs within the meeting room.

Barrier Priority:

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



Internal: Controls

Finding: 13

The element is not positioned correctly for either a side or front approach.

Where a clear floor or ground space allows a parallel or front approach and the side reach is unobstructed, the high side reach shall be 48 inches maximum above the finish floor or ground and the low side reach shall be 15 inches minimum above the finish floor or ground.

2010 ADAS Section 308.2.1

Where a forward reach is unobstructed, the high forward reach shall be 48 inches (1220 mm) maximum and the low forward reach shall be 15 inches (380 mm) minimum above the finish floor or ground.

2010 ADAS Section 308.3.1

Where a clear floor or ground space allows a parallel approach to an element and the side reach is unobstructed, the high side reach shall be 48 inches (1220 mm) maximum and the low side reach shall be 15 inches (380 mm) minimum above the finish floor or ground.

Citation: Budgeting Range:

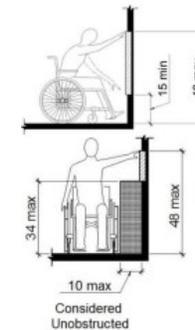
2010 ADAS Section: 308.2.1, 308.3.1 \$150 - \$1,500.00

Recommendation:

Lower all room controls to 48" maximum above the finish floor.

Barrier Priority:

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



**Internal: Exit Doors**

**Finding: 14**

The required exit sign with the ISA is missing above the door.

In buildings classified in the assembly use and educational use (See 780 CMR 302.0) with an occupancy of over 150 (See 521 CMR 14.1.1), all required egress doors which lead directly to the outside at grade, shall be made accessible at the exterior as well as the interior so as to provide a safe path of travel to a public way for persons who are disabled. Such egress doors shall be provided with illuminated signage identifying accessibility by the use of the international symbol contained within the "exit" sign (See 521 CMR 41.1.3)

2006 521 CMR Section 26.1.2

*In buildings classified in the assembly use and educational use (See 780 CMR 302.0) with an occupancy of over 150 (See 521 CMR 14.1.1), all required egress doors which lead directly to the outside at grade, shall be made accessible at the exterior as well as the interior so as to provide a safe path of travel to a public way for persons who are disabled. Such egress doors shall be provided with illuminated signage identifying accessibility by the use of the international symbol contained within the "exit" sign (See 521 CMR 41.1.3)*

**Citation:**

2006 521 CMR Section: 26.1.2

**Budgeting Range:**

\$500 - \$4,500.00

**Recommendation:**

Correct Exit Signs to have ISA included

**Barrier Priority:**

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



## Site Accessibility Evaluation



**Parkerville Schoolhouse 210  
Carlisle Rd  
Westford, MA 01886  
Accessibility Evaluation  
Inspection Date: 09/15/2024  
Inspector: Joe Prochilo**

Prepared By

**Direct Access**

(727) 478 - 2652

[www.directaccessgp.com](http://www.directaccessgp.com)

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**Parkerville Schoolhouse - 210 Carlisle Rd Westford, MA 01886**

### General: Pre-Visit Information

#### Finding: 1

There is limited review information online about Parkerville Schoolhouse and its facilities. There are no access guides available to assist people with disabilities prior to their visit.

*2010 ADAS Section Advisory  
None*

*1991 ADAS Section Advisory  
None*

*2006 521 CMR Section 0.0  
N/A*

#### Citation:

**2010 ADAS Section: Advisory**

**1991 ADAS Section: Advisory**

**2006 521 CMR Section: 0.0**

#### Recommendation:

International Guidance such as BS83090 (British Standards) highlights the importance of communications prior to the visit. Guidance states that clear and accurate pre-visit information via websites, literature, social media or telecommunications that is easy to access should be available. This should be available in alternative formats including details of modes of transport, parking, drop-off and what levels of accessibility to expect upon arrival.

#### Barrier Priority:

Recommended (5): Should be completed but not necessarily required. (Includes findings and or elements that may have been in compliance with previous editions of the codes and standards but have since changed. Generally, these items are easily modified to provide the greatest degree of access as well as compliance with the most current codes and standards)

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**General: Pre-Visit Information**

**Finding: 2**

Street addresses do not always point to the precise locations. This means that people with disabilities sometimes must travel further to gain an accessible point of access. An innovative idea that could be implemented for every site is What3Words.

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

**Citation:**

2010 ADAS Section: Advisory

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

**Recommendation:**

What3Words has given every 3m in the world a unique 3 word address.. The 3 word address for Parkerville Schoolhouse is //fruity.examine.beware. Ensure that this address is added to the website.

**Barrier Priority:**

Recommended (5): Should be completed but not necessarily required. (Includes findings and or elements that may have been in compliance with previous editions of the codes and standards but have since changed. Generally, these items are easily modified to provide the greatest degree of access as well as compliance with the most current codes and standards)

**External: Parking Lot**

**Finding: 3**

There are no accessible parking stalls.

Each lot where parking is provided for the public as clients, guests or employees, shall provide accessible parking and shall be located on the shortest accessible route of travel from adjacent parking to an accessible entrance.

A minimum of one accessible stall is required and it must be sized and designated as a van accessible stall.

2010 ADAS Section 208.2.4  
For every six or fraction of six parking spaces required by 208.2 to comply with 502, at least one shall be a van parking space complying with 502.

1991 ADAS Section 4.1.2(1)  
At least one accessible route complying with 4.3 shall be provided within the boundary of the site from public transportation stops, accessible parking spaces, passenger loading zones if provided, and public streets or sidewalks, to an accessible building entrance.

**Citation:**

2010 ADAS Section: 208.2.4

1991 ADAS Section: 4.1.2(1)

**Budgeting Range:**

\$500 - \$1,250.00

**Recommendation:**

Install one accessible Van parking space 8' wide with an 8' wide access aisle. Ensure that there is an Accessible Parking sign with the ISA symbol and ensure that the sign states "Van Accessible".

**Barrier Priority:**

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



Total Number of Parking Spaces Provided in Parking Facility	Minimum Number of Required Accessible Parking Spaces
1 to 25	1
26 to 50	2
51 to 75	3
76 to 100	4
101 to 150	5
151 to 200	6
201 to 300	7
301 to 400	8
401 to 500	9
501 to 1000	2 percent of total
1001 and over	20, plus 1 for each 100, or fraction thereof, over 1000

**External: Parking Lot**

**Finding: 4**

The surfaces of the accessible parking spaces and access aisles are not firm, stable, and slip resistant.

Floor and ground surfaces shall be stable, firm, and slip resistant

Parking spaces and access aisles serving them shall comply with 302. Access aisles shall be at the same level as the parking spaces they serve. Changes in level are not permitted.

2010 ADAS Section 302.1

Floor and ground surfaces shall be stable, firm, and slip resistant and shall comply with 302.

2010 ADAS Section 502.4

Parking spaces and access aisles serving them shall comply with 302. Access aisles shall be at the same level as the parking spaces they serve. Changes in level are not permitted.

**Citation:**

2010 ADAS Section: 302.1, 502.4

**Budgeting Range:**

\$1,200 - \$6,500.00

**Recommendation:**

Pave gravel and stone dust parking area with asphalt to ensure individuals have a firm, stable and slip resistant surface to park and ambulate across.

**Barrier Priority:**

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



**External: Bench Area**

**Finding: 5**

There is no accessible route of travel from the public way.

At least one accessible route shall be provided within the site from accessible parking spaces and accessible passenger loading zones; public streets and sidewalks; and public transportation stops to the accessible building or facility they serve.

2010 ADAS Section 206.2.1

At least one accessible route shall be provided within the site from accessible parking spaces and accessible passenger loading zones; public streets and sidewalks; and public transportation stops to the accessible building or facility entrance they serve.

1991 ADAS Section 4.1.2(1)

At least one accessible route complying with 4.3 shall be provided within the boundary of the site from public transportation stops, accessible parking spaces, passenger loading zones if provided, and public streets or sidewalks, to an accessible building entrance.

2006 521 CMR Section 20.2

Within the boundary of the site, an accessible route(s) shall be provided from accessible parking, accessible passenger loading zones, and public streets or sidewalks to the accessible building entrance they serve. The accessible route(s) shall coincide with the route for the general public.

**Citation:**

2010 ADAS Section: 206.2.1

1991 ADAS Section: 4.1.2(1)

2006 521 CMR Section: 20.2

**Budgeting Range:**

\$3,500 - \$9,500.00

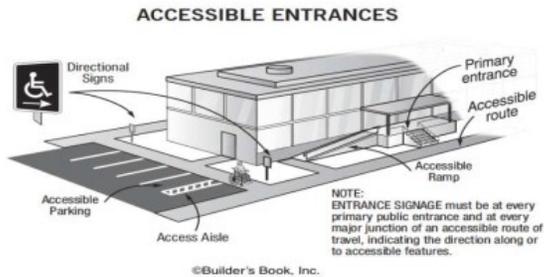
**Recommendation:**

Install an accessible route of travel from the accessible parking area over to the bench by the tree and from the accessible parking area to the concrete surface where access to the ramped entrance to the building begins.

**Barrier Priority:**

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)

Finding: 5 (Continued)



External: External Path of Travel

Finding: 6

The building entrance is not located on an accessible route.

When a building, or portion of a building, is required to be accessible, an accessible route of travel shall be provided to all portions of the building, to accessible building entrances and between the building and the public way.

At least one accessible route within the boundary of the site must be provided from public transportation stops, accessible parking and accessible passenger loading zones and public streets or sidewalks to the accessible building entrance they serve.

The accessible route shall, to the maximum extent feasible, coincide with the route for the general public. At least one accessible route shall connect accessible buildings, facilities, elements and spaces that are on the same site. At least one accessible route shall connect accessible building or facility entrances with all accessible spaces and elements.

2010 ADAS Section 206.2.1

At least one accessible route shall be provided within the site from accessible parking spaces and accessible passenger loading zones; public streets and sidewalks; and public transportation stops to the accessible building or facility entrance they serve.

1991 ADAS Section 4.1.2(1)

At least one accessible route complying with 4.3 shall be provided within the boundary of the site from public transportation stops, accessible parking spaces, passenger loading zones if provided, and public streets or sidewalks, to an accessible building entrance.

2006 521 CMR Section 20.2

Within the boundary of the site, an accessible route(s) shall be provided from accessible parking, accessible passenger loading zones, and public streets or sidewalks to the accessible building entrance they serve. The accessible route(s) shall coincide with the route for the general public.

Citation:

2010 ADAS Section: 206.2.1

1991 ADAS Section: 4.1.2(1)

2006 521 CMR Section: 20.2

Budgeting Range:

\$150 - \$1,500.00

Recommendation:

Install an accessible route and fix the cracked broken concrete before the ramp area

Barrier Priority:

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)

**Finding: 6** (Continued)

**External: Ramp**

**Finding: 7**

The ramp has several boards which are rotted and should be replaced.

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

**Citation:**

2010 ADAS Section: Advisory

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

**Budgeting Range:**

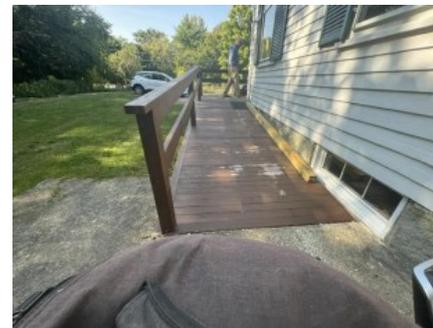
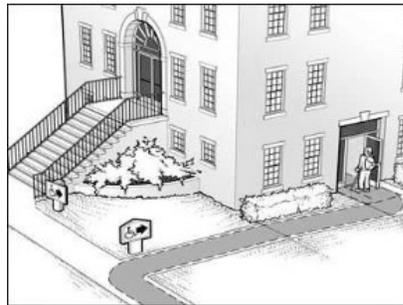
\$150 - \$2,500.00

**Recommendation:**

Replace and refinish the several boards which are rotted and no longer support individuals

**Barrier Priority:**

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



External: Ramp

Finding: 8

The ramp does not have compliant handrails.

Handrails are required on both sides of all surfaces that are sloped greater than 5 percent (1:20). Handrails must be provided in pairs. One must be between 34 inches and 38 inches above the ramp surface and the other must be 18 inches to 20 inches above the ramp surface. Handrails must extend 12 inches beyond the top and bottom of the ramp and be parallel to the floor or ground surface. The diameter of the handrails must be 1 1/4 inches minimum and 2 inches maximum in cross-sectional nominal dimension. The space between handrails and walls must 1 1/2 inches minimum.

2006 521 CMR Section 24.5

Handrails shall be provided at all ramps. Handrails shall have the following features:

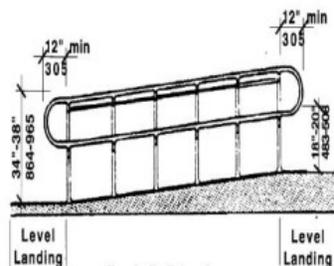
<b>Citation:</b>	<b>Budgeting Range:</b>
2006 521 CMR Section: 24.5	\$250 - \$1,500.00

Recommendation:

Investigate ramp slope - if ramp has a running sloe greater than 5 percent a second ramp handrail will be required ramp side closest to the Schoolhouse

Barrier Priority:

Recommended (5): Should be completed but not necessarily required. (Includes findings and or elements that may have been in compliance with previous editions of the codes and standards but have since changed. Generally, these items are easily modified to provide the greatest degree of access as well as compliance with the most current codes and standards)



External: Exterior Porch

Finding: 9

There is a 6" step-up from the porch to access the entrance of the building. While a short ramp does exist to gain access to the building, the 16.75 degree angle (30.2% slope) is too steep to accommodate most manual and electric wheelchairs.

2010 ADAS Section Advisory None

1991 ADAS Section Advisory None

2006 521 CMR Section 0.0 N/A

<b>Citation:</b>	<b>Budgeting Range:</b>
2010 ADAS Section: Advisory	\$500 - \$3,500.00

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

Recommendation:

Consider having a book available with pictures, details and descriptions so that individuals who can't access the building have an alternative means to access the information on display within the schoolhouse. Ensure that the same information exists in an audio described format for the blind and is closed captioned for hearing impaired individuals.

Barrier Priority:

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



Finding: 9 Additional Finding Photos



External: Entrance Door

Finding: 10

Door hardware requires twisting or turning which is non-compliant.

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

Citation:

2010 ADAS Section: Advisory

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

Budgeting Range:

\$75 - \$450.00

Recommendation:

Investigate the possibility of replacing existing hardware with accessible level types of hardware. This may not be permitted due to Massachusetts Historical limitations.

Barrier Priority:

Recommended (5): Should be completed but not necessarily required. (Includes findings and or elements that may have been in compliance with previous editions of the codes and standards but have since changed. Generally, these items are easily modified to provide the greatest degree of access as well as compliance with the most current codes and standards)



**Internal: Bathroom**

**Finding: 14**

The bathroom has several issues: the grab bar is missing from behind the toilet, the sink pipes are not insulated and signage is not provided at the entrance to the toilet area.

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

**Citation:** **Budgeting Range:**

2010 ADAS Section: Advisory **\$250 - \$1,500.00**

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

**Recommendation:**

Investigate correcting the following violations. Insulation of sink drainage pipes and grab bar should not be impacted by Massachusetts Historical Society limitations. More than likely signage will be limited due to the historical registry listing.

**Barrier Priority:**

Recommended (5): Should be completed but not necessarily required. (Includes findings and or elements that may have been in compliance with previous editions of the codes and standards but have since changed. Generally, these items are easily modified to provide the greatest degree of access as well as compliance with the most current codes and standards)



## Site Accessibility Evaluation



### Roudenbush Children's Center (Frost School)

73 Main St

Westford, MA 01886

Accessibility Evaluation

Inspection Date: 09/15/2024

Inspector: Joe Prochilo

Prepared By

**Direct Access**

(727) 478 - 2652

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**Roudenbush Children's Center (Frost School) - 73 Main St Westford, MA 01886**

### General: Pre-Visit Information

#### Finding: 1

There is limited review information online about the Roudenbush Children's Center and its facilities. There are no access guides available to assist people with disabilities prior to their visit.

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

#### Citation:

2010 ADAS Section: Advisory

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

#### Recommendation:

International Guidance such as BS83090 (British Standards) highlights the importance of communications prior to the visit. Guidance states that clear and accurate pre-visit information via websites, literature, social media or telecommunications that is easy to access should be available. This should be available in alternative formats including details of modes of transport, parking, drop-off and what levels of accessibility to expect upon arrival.

#### Barrier Priority:

Recommended (5): Should be completed but not necessarily required. (Includes findings and or elements that may have been in compliance with previous editions of the codes and standards but have since changed. Generally, these items are easily modified to provide the greatest degree of access as well as compliance with the most current codes and standards)

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**General: Pre-Visit Information**

**Finding: 2**

Street addresses do not always point to the precise locations. This means that people with disabilities sometimes must travel further to gain an accessible point of access. An innovative idea that could be implemented for every site is What3Words.

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

**Citation:**

2010 ADAS Section: Advisory

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

**Recommendation:**

What3Words has given every 3m in the world a unique 3 word address.. The 3 word address for the Roudenbush Children's Center is [///:courtrooms.live.consult](https://www.what3words.com/#!/:courtrooms.live.consult). Ensure this address is added to the website.

**Barrier Priority:**

Recommended (5): Should be completed but not necessarily required. (Includes findings and or elements that may have been in compliance with previous editions of the codes and standards but have since changed. Generally, these items are easily modified to provide the greatest degree of access as well as compliance with the most current codes and standards)

**External: Parking Lot**

**Finding: 6**

There are no accessible parking stalls.

Each lot where parking is provided for the public as clients, guests or employees, shall provide accessible parking and shall be located on the shortest accessible route of travel from adjacent parking to an accessible entrance.

There are a total of 30 parking stalls in the parking lot that could be reasonably associated with this facility. There should be a minimum of 1 accessible stalls with a minimum of 1 being designed as van accessible.

2010 ADAS Section 208.2

Parking spaces complying with 502 shall be provided in accordance with Table 208.2 except as required by 208.2.1, 208.2.2, and 208.2.3. Where more than one parking facility is provided on a site, the number of accessible spaces provided on the site shall be calculated according to the number of spaces required for each parking facility.

1991 ADAS Section 4.1.2(5)(a)

If parking spaces are provided for self-parking by employees or visitors, or both, then accessible spaces complying with 4.6 shall be provided in each such parking area in conformance with the table below. Spaces required by the table need not be provided in the particular lot. They may be provided in a different location if equivalent or greater accessibility, in terms of distance from an accessible entrance, cost and convenience is ensured. Except as provided in (b), access aisles adjacent to accessible spaces shall be 60 in (1525 mm) wide minimum.

**Citation:**

2010 ADAS Section: 208.2

1991 ADAS Section: 4.1.2(5)(a)

**Budgeting Range:**

\$150 - \$1,200.00

**Recommendation:**

Install at least one accessible parking stall 8' wide with an 8' access aisle. Ensure there is an accessible parking sign with an ISA symbol mounted least 5' in height.

**Barrier Priority:**

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



Total Number of Parking Spaces Provided in Parking Facility	Minimum Number of Required Accessible Parking Spaces
1 to 25	1
26 to 50	2
51 to 75	3
76 to 100	4
101 to 150	5
151 to 200	6
201 to 300	7
301 to 400	8
401 to 500	9
501 to 1000	2 percent of total
1001 and over	20, plus 1 for each 100, or fraction thereof, over 1000

Finding: 6 Additional Finding Photos



External: Path of Travel

Finding: 7

The route contains openings greater than 1/2 inch.

Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch diameter. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.

2010 ADAS Section 302.3

Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch (13 mm) diameter except as allowed in 407.4.3, 409.4.3, 410.4, 810.5.3 and 810.10. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.

Citation:

2010 ADAS Section: 302.3

Budgeting Range:

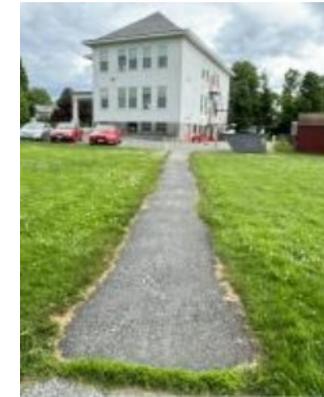
\$150 - \$1,500.00

Recommendation:

Repave several areas along the path of travel from the Community Center to the School where gapes larger than 1/2".

Barrier Priority:

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



**Internal: Lack of an Accessible Entrance**

**Finding: 8**

The school lacks basic accessibility features such as ramped entrances, automatic door openers, an elevator, an accessible means of egress and accessible bathroom facilities.

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

**Citation:** **Budgeting Range:**

2010 ADAS Section: Advisory

\$1,500 - \$12,500.00

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

**Recommendation:**

Investigate installing ramped entrances and accessible bathrooms to permit access to at least the main floor and investigate making the entire building accessible for individuals with disabilities.

**Barrier Priority:**

Recommended (5): Should be completed but not necessarily required. (Includes findings and or elements that may have been in compliance with previous editions of the codes and standards but have since changed. Generally, these items are easily modified to provide the greatest degree of access as well as compliance with the most current codes and standards)



## Site Accessibility Evaluation



**Roudenbush Children's Center at NAB**  
**170 Plain Road**  
**Westford, MA 01886**  
**Accessibility Evaluation**  
**Inspection Date: 09/15/2024**  
**Inspector: Joe Prochilo**

Prepared By

**Direct Access**

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**Roudenbush Children's Center at NAB - 170 Plain Road Westford, MA 01886**

### General: Pre-Visit Information

#### Finding: 1

There is limited review information online about Roudenbush Children's Center at NAB and its facilities. There are no access guides available to assist people with disabilities prior to their visit.

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

#### Citation:

2010 ADAS Section: Advisory

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

#### Recommendation:

International Guidance such as BS83090 (British Standards) highlights the importance of communications prior to the visit. Guidance states that clear and accurate pre-visit information via websites, literature, social media or telecommunications that is easy to access should be available in alternative formats including details of modes of transport, parking, drop-off and what levels of accessibility to expect upon arrival.

#### Barrier Priority:

Recommended (5): Should be completed but not necessarily required. (Includes findings and or elements that may have been in compliance with previous editions of the codes and standards but have since changed. Generally, these items are easily modified to provide the greatest degree of access as well as compliance with the most current codes and standards)

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**General: Pre-Visit Information**

**Finding: 2**

Street addresses do not always point to precise locations. This means that people with disabilities sometimes must travel further to gain an accessible point of access. An innovative idea that could be implemented for every site is What3Words.

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

**Citation:**

2010 ADAS Section: Advisory

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

**Recommendation:**

What3Words has given every 3m in the world a unique 3 word address.. The 3 word address for Roudenbush Children's Center at NAB is //usual.ballots.feeds. Ensure that this address is added to the website.

**Barrier Priority:**

Recommended (5): Should be completed but not necessarily required. (Includes findings and or elements that may have been in compliance with previous editions of the codes and standards but have since changed. Generally, these items are easily modified to provide the greatest degree of access as well as compliance with the most current codes and standards)

**External: Parking**

**Finding: 3**

Sign on building - Handicapped Parking at Rear is blocked by trees and other growth.

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

**Citation:**

2010 ADAS Section: Advisory

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

**Budgeting Range:**

\$50 - \$300.00

**Recommendation:**

Trim back overgrowth so directional sign to Handicapped Parking area is clearly visible.

**Barrier Priority:**

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



**External: Parking**

**Finding: 4**

The access aisle is missing at the accessible parking stall.

Access aisles serving parking spaces shall adjoin an accessible route. Two parking spaces shall be permitted to share a common access aisle.

2010 ADAS Section 502.2

Car parking spaces shall be 96 inches (2440 mm) wide minimum and van parking spaces shall be 132 inches (3350 mm) wide minimum, shall be marked to define the width, and shall have an adjacent access aisle complying with 502.3.

1991 ADAS Section 4.1.2(1)

At least one accessible route complying with 4.3 shall be provided within the boundary of the site from public transportation stops, accessible parking spaces, passenger loading zones if provided, and public streets or sidewalks, to an accessible building entrance.

**Citation:**

2010 ADAS Section: 502.2

1991 ADAS Section: 4.1.2(1)

**Budgeting Range:**

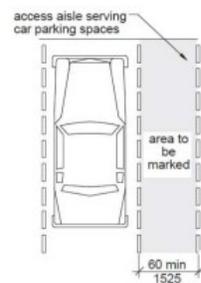
\$150 - \$450.00

**Recommendation:**

Assign an access aisle to the Handicapped Parking space which lacks an access aisle presently.

**Barrier Priority:**

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



**External: Parking**

**Finding: 5**

Areas of the parking lot require to be repaved due to cracks and holes in the surface making it a hazard for all abilities.

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

**Citation:**

2010 ADAS Section: Advisory

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

**Budgeting Range:**

\$500 - \$1,200.00

**Recommendation:**

Patch and repave impacted areas with asphalt.

**Barrier Priority:**

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



**External: Playground**

**Finding: 6**

Poured in place surface seems very stiff and has little give throughout.

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

**Citation:** **Budgeting Range:**

2010 ADAS Section: Advisory

\$1,500 - \$3,500.00

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

**Recommendation:**

Investigate having surface tested and reviewed to insure it still meets safety specifications.

**Barrier Priority:**

Recommended (5): Should be completed but not necessarily required. (Includes findings and or elements that may have been in compliance with previous editions of the codes and standards but have since changed. Generally, these items are easily modified to provide the greatest degree of access as well as compliance with the most current codes and standards)



**External: Playground**

**Finding: 7**

Landscape mats that sit over Engineered Wood Fiber (EWF) have ties that are broken and need replacing.

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

**Citation:** **Budgeting Range:**

2010 ADAS Section: Advisory

\$150 - \$750.00

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

**Recommendation:**

Replace all broken ties with stronger ties. Investigate ties at least every month given use during the school year. Ties and mats deteriorate quickly from exposure to ultraviolet rays.

**Barrier Priority:**

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



**External: Pavillion**

**Finding: 8**

The grassy and sandy surface between the parking lot and picnic table area makes travel difficult for mobility devices.

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

**Citation:** **Budgeting Range:**

2010 ADAS Section: Advisory

\$1,500 - \$6,500.00

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

**Recommendation:**

Install an asphalt or concrete path of travel from the parking lot to the picnic table area

**Barrier Priority:**

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



**External: Stairways**

**Finding: 9**

There is a lack of color contrast between the stairs, stair railing and stair nosing making it difficult for blind and low vision individuals to utilize the external stairways

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

**Citation:** **Budgeting Range:**

2010 ADAS Section: Advisory

\$500 - \$2,500.00

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

**Recommendation:**

Ensure there is adequate color contrast between the stair, stair nosing, and hand rails to make use of the stairway easier to identify and use by blind and low vision individuals.

**Barrier Priority:**

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



Internal: Platform Lift

Finding: 10

The elevator certificate states that the platform lift motor is rated to a maximum of 550 pounds. Adult electric wheelchairs average 400 pounds just for the chair while a pediatric electric wheelchair averages 325 pounds. This is before you add the weight of the user. Children and adults are much heavier today than in the past, so lifts installed must address the needs to accommodate this population of individuals.

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

Citation:

2010 ADAS Section: Advisory

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

Budgeting Range:

\$1,500 - \$6,500.00

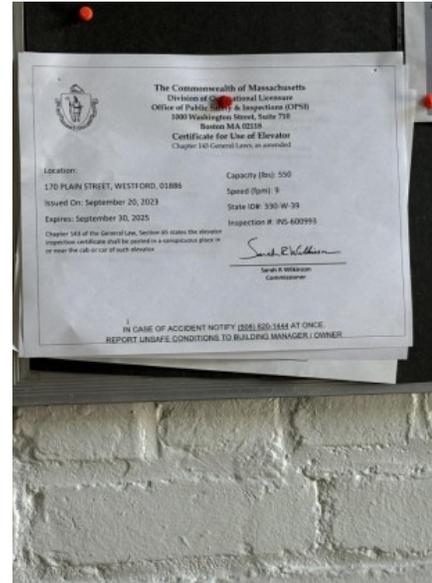
Recommendation:

Investigate installing a new motor with a weight capacity on the order of 800 to 1,000 pounds for safety and inclusion purposes. Ensure that the lift is not used as a storage area for teaching materials.

Barrier Priority:

Recommended (5): Should be completed but not necessarily required. (Includes findings and or elements that may have been in compliance with previous editions of the codes and standards but have since changed. Generally, these items are easily modified to provide the greatest degree of access as well as compliance with the most current codes and standards)

Finding: 10 (Continued)



**Internal: Storage**

**Finding: 14**

The building does not have adequate storage for the amount of excess materials teachers have on hand. An excess of items are stored in every possible space within the building impacting access to the lift and the accessible restroom. Classrooms are overcrowded and space is not available to accommodate students with mobility disabilities. The platform lift and accessible restroom should be clear of all obstacles at all times. Classrooms should have adequate turning space to permit individuals with mobility aids to have the space necessary to maneuver for inclusion purposes.

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

**Citation:** **Budgeting Range:**

2010 ADAS Section: Advisory **\$150 - \$650.00**

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

**Recommendation:**

Conduct a full inventory and purge materials which are not absolutely necessary to the running of current programs within the school. For children on the autistic spectrum, those diagnosed with sensory processing disorder, ADHD, or even children with dyslexia, a busy and cluttered room may contribute to sensory "overload". The clutter adds to daily struggles to be organized, to concentrate, and to keep their bodies calm and still. For those with mobility disabilities additional floor space is needed to permit students with wheelchairs or walkers to move and interact with their peers. An organized, uncluttered, calm, and welcoming room benefits the entire school students and teachers included.

**Barrier Priority:**

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)

**Finding: 14 (Continued)**



Internal: Accessible Restroom

Finding: 15

Access to the accessible restroom and access within the accessible restroom is impacted by the area being used to store materials.

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

Citation: Budgeting Range:

2010 ADAS Section: Advisory

\$500 - \$1,500.00

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

Recommendation:

Remove all overflow item to permit access to the accessible restroom. Remove materials stored on the floor within the toilet compartment so that someone with a mobility device is able to use the facilities.

Barrier Priority:

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



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Internal: Accessible Restroom

Finding: 16

Knee and toe clearance has not been provided at the sink.

The knee clearance shall be 11 inches deep minimum at 9 inches above the finish floor or ground, and 8 inches deep minimum at 27 inches above the finish floor or ground.

The toe clearance is the space under the sink between the finish floor or ground and 9 inches above the finish floor 30 inches wide minimum. The toe clearance shall extend a minimum of 17 inches and a maximum of 25 inches underneath the sink.

2010 ADAS Section 606.2

A clear floor space complying with 305, positioned for a forward approach, and knee and toe clearance complying with 306 shall be provided.

Citation: Budgeting Range:

2010 ADAS Section: 606.2

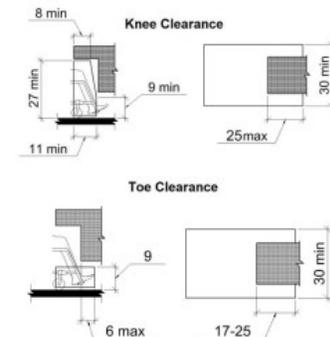
\$500 - \$1,200.00

Recommendation:

Provide access to the sink by removing the cabinetry so someone with a mobility device is able to use the sink with a frontal approach.

Barrier Priority:

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



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**Internal: Kitchen Area**

**Finding: 17**

The required clear space is not provided in the kitchen.

Non-commercial kitchens in public facilities such as classrooms and community rooms shall provide a clear space of 60 inches in diameter, measured 12 inches above the floor.

2006 521 CMR Section 32.1

Non-commercial kitchens in public facilities such as classrooms and community rooms shall provide a clear space of 60 inches (60" = 1524mm) in diameter, measured 12 inches (12"= 305mm) above the floor. For requirements for kitchens in multiple dwellings, see 521 CMR 43.00: GROUP 1 KITCHENS and 521 CMR 45.00: GROUP 2 KITCHENS.

**Citation:**

2006 521 CMR Section: 32.1

**Budgeting Range:**

\$1,500 - \$4,500.00

**Recommendation:**

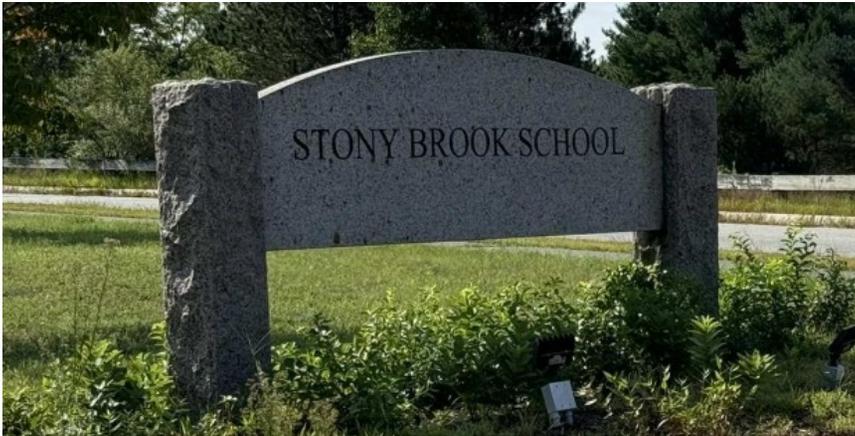
Investigate the possibility of making the entire kitchen area accessible for someone who uses a mobility device for inclusion purposes.

**Barrier Priority:**

Recommended (5): Should be completed but not necessarily required. (Includes findings and or elements that may have been in compliance with previous editions of the codes and standards but have since changed. Generally, these items are easily modified to provide the greatest degree of access as well as compliance with the most current codes and standards)



## Site Accessibility Evaluation



**Stonybrook Middle School**  
**9 Farmer Way**  
**Westford, MA 01886**  
**Accessibility Evaluation**  
**Inspection Date: 08/22/2024**  
**Inspector: Joe Prochilo**

Prepared By

**Direct Access**

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**Stonybrook Middle School - 9 Farmer Way Westford, MA 01886**

**General: Pre-Visit**

### Finding: 1

There is limited review information online about Stony Brook Middle School and its facilities. There are no access guides available to assist people with disabilities prior to their visit.

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

### Citation:

2010 ADAS Section: Advisory

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

### Recommendation:

International Guidances such as BS83090 (British Standards) highlights the importance of communications prior to the visit. Guidance states that clear and accurate pre-visit information via websites, literature, social media or telecommunications that is eas to access should be available This should be available in alternative formats including details of modes of transport, parking, drop-off and what levels of accessibility to expect upon arrival.

### Barrier Priority:

Recommended (5): Should be completed but not necessarily required. (Includes findings and or elements that may have been in compliance with previous editions of the codes and standards but have since changed. Generally, these items are easily modified to provide the greatest degree of access as well as compliance with the most current codes and standards)

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**General: Pre-Visit**

**Finding: 2**

Street addresses do not always point to the precise locations. This means that people with disabilities sometimes must travel further to gain an accessible point of access. An innovative idea that could be implemented for every site is What3Words.

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

**Citation:**

2010 ADAS Section: Advisory

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

**Recommendation:**

What3Words has given every 3m in the world a unique 3 word address. . The 3 word address for Stony Brook Middle School is //fizzled.pulling.imparting. Ensure that this address is added to the website.

**Barrier Priority:**

Recommended (5): Should be completed but not necessarily required. (Includes findings and or elements that may have been in compliance with previous editions of the codes and standards but have since changed. Generally, these items are easily modified to provide the greatest degree of access as well as compliance with the most current codes and standards)

**External: Parking**

**Finding: 6**

There are no accessible parking stalls.

Each lot where parking is provided for the public as clients, guests or employees, shall provide accessible parking and shall be located on the shortest accessible route of travel from adjacent parking to an accessible entrance.

There are a total of 150 parking stalls in the parking lot that could be reasonably associated with this facility. There should be a minimum of 6 accessible stalls with a minimum of 1 being designed as van accessible.

2010 ADAS Section 208.2  
Parking spaces complying with 502 shall be provided in accordance with Table 208.2 except as required by 208.2.1, 208.2.2, and 208.2.3. Where more than one parking facility is provided on a site, the number of accessible spaces provided on the site shall be calculated according to the number of spaces required for each parking facility.

1991 ADAS Section 4.1.2(5)(a)  
If parking spaces are provided for self-parking by employees or visitors, or both, then accessible spaces complying with 4.6 shall be provided in each such parking area in conformance with the table below. Spaces required by the table need not be provided in the particular lot. They may be provided in a different location if equivalent or greater accessibility, in terms of distance from an accessible entrance, cost and convenience is ensured. Except as provided in (b), access aisles adjacent to accessible spaces shall be 60 in (1525 mm) wide minimum.

**Citation:**

2010 ADAS Section: 208.2

1991 ADAS Section: 4.1.2(5)(a)

**Budgeting Range:**

\$350 - \$4,500.00

**Recommendation:**

In the side parking areas associated with each field there should be accessible car and accessible van parking spaces and access aisles.  
Football, track, basketball, tennis, soccer, and baseball fields.

**Barrier Priority:**

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)

Finding: 6 (Continued)



Total Number of Parking Spaces Provided in Parking Facility	Minimum Number of Required Accessible Parking Spaces
1 to 25	1
26 to 50	2
51 to 75	3
76 to 100	4
101 to 150	5
151 to 200	6
201 to 300	7
301 to 400	8
401 to 500	9
501 to 1000	2 percent of total
1001 and over	20, plus 1 for each 100, or fraction thereof, over 1000

External: Parking

Finding: 7

There are no van accessible parking stalls.

1 in every 6, minimum of one, required accessible stalls must be a van accessible stall.

There are a total of 150 parking stalls in the parking lot that could be reasonably associated with this facility. There should be a minimum of 6 accessible stalls with a minimum of 1 being designed as van accessible.

2010 ADAS Section 208.2

Parking spaces complying with 502 shall be provided in accordance with Table 208.2 except as required by 208.2.1, 208.2.2, and 208.2.3. Where more than one parking facility is provided on a site, the number of accessible spaces provided on the site shall be calculated according to the number of spaces required for each parking facility.

2010 ADAS Section 208.2.4

For every six or fraction of six parking spaces required by 208.2 to comply with 502, at least one shall be a van parking space complying with 502.

Citation:

2010 ADAS Section: 208.2, 208.2.4

Budgeting Range:

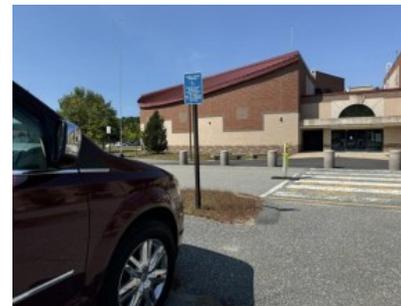
\$50 - \$500.00

Recommendation:

In the front parking area where the space is 8' wide followed by a corresponding 8' access aisle, install a "van Accessible" sign below the accessible parking space sign.

Barrier Priority:

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



Total Number of Parking Spaces Provided in Parking Facility	Minimum Number of Required Accessible Parking Spaces
1 to 25	1
26 to 50	2
51 to 75	3
76 to 100	4
101 to 150	5
151 to 200	6
201 to 300	7
301 to 400	8
401 to 500	9
501 to 1000	2 percent of total
1001 and over	20, plus 1 for each 100, or fraction thereof, over 1000

Finding: 7 Additional Finding Photos



External: Parking

Finding: 8

Access to the field is not directly accessible from the parking area. Accessible parking spaces are not located in the area and parking spaces do not have a curb ramp allowing an individual to access the Football field at this entrance point.

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

Citation:

2010 ADAS Section: Advisory

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

Budgeting Range:

\$150 - \$4,500.00

Recommendation:

Consider installing accessible parking spaces in this area and install a curb ramp with a path of travel between the accessible parking area and an accessible entrance to the football field.

Barrier Priority:

Recommended (5): Should be completed but not necessarily required. (Includes findings and or elements that may have been in compliance with previous editions of the codes and standards but have since changed. Generally, these items are easily modified to provide the greatest degree of access as well as compliance with the most current codes and standards)



External: Accessible Route

Finding: 9

The accessible route contains loose gravel and/or surface materials that do not provide for a stable, firm slip resistant surface.

Floor and ground surfaces shall be stable, firm, and slip resistant.

2010 ADAS Section 302.1

Floor and ground surfaces shall be stable, firm, and slip resistant and shall comply with 302.

1991 ADAS Section 4.5.1

Ground and floor surfaces along accessible routes and in accessible rooms and spaces including floors, walks, ramps, stairs, and curb ramps, shall be stable, firm, slip-resistant, and shall comply with 4.5.

2006 521 CMR Section 29.1

Ground and floor surfaces including floors, walks, ramps, and curb cuts shall be stable, firm, slip resistant, and maintained with materials that ensure continued slip resistance.

Citation:

Budgeting Range:

2010 ADAS Section: 302.1

\$500 - \$4,500.00

1991 ADAS Section: 4.5.1

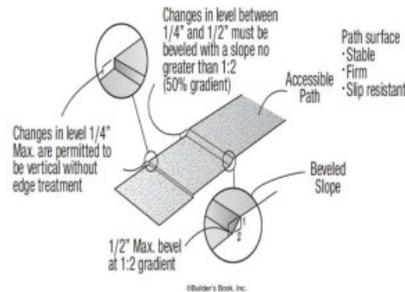
2006 521 CMR Section: 29.1

Recommendation:

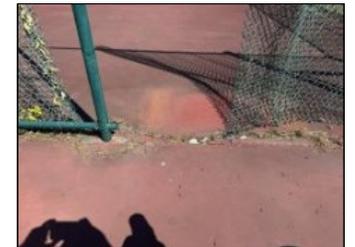
Pave areas in several field areas identified for inclusion purposes

Barrier Priority:

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



Finding: 9 Additional Finding Photos



External: Restrooms

Finding: 10

The portable public restroom is not compliant.

If sanitary facilities are provided, they must be made accessible to persons with disabilities. If public restrooms are desired, it is recommended that the portable unit be replaced with a permanent built in compliant restroom. The utilization of an accessible portable unit may be a temporary solution and is not recommended as a permanent solution.

2010 ADAS Section 213.1

Where toilet facilities and bathing facilities are provided, they shall comply with 213. Where toilet facilities and bathing facilities are provided in facilities permitted by 206.2.3 Exceptions 1 and 2 not to connect stories by an accessible route, toilet facilities and bathing facilities shall be provided on a story connected by an accessible route to an accessible entrance.

1991 ADAS Section 4.1.2(1)

At least one accessible route complying with 4.3 shall be provided within the boundary of the site from public transportation stops, accessible parking spaces, passenger loading zones if provided, and public streets or sidewalks, to an accessible building entrance.

Citation: Budgeting Range:

2010 ADAS Section: 213.1 \$500 - \$1,500.00

1991 ADAS Section: 4.1.2(1)

Recommendation:

Please provide an accessible portable restroom in the area where other similar facilities are offered for inclusion purposes.

Barrier Priority:

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



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External: Tennis Courts

Finding: 11

The knee clearance does not extend a minimum 8 inches under the element at 27 inches above the finished floor.

The knee clearance shall be 11 inches deep minimum at 9 inches above the finish floor or ground, and 8 inches deep minimum at 27 inches above the finish floor or ground and 30 inches wide minimum.

2010 ADAS Section 306.3.3

Where knee clearance is required under an element as part of a clear floor space, the knee clearance shall be 11 inches (280 mm) deep minimum at 9 inches (230 mm) above the finish floor or ground, and 8 inches (205 mm) deep minimum at 27 inches (685 mm) above the finish floor or ground.

Citation: Budgeting Range:

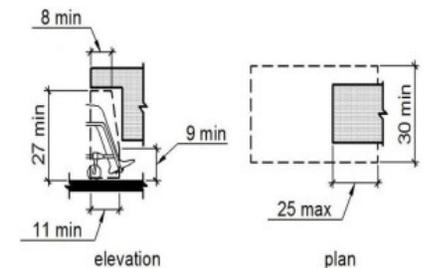
2010 ADAS Section: 306.3.3 \$150 - \$1,500.00

Recommendation:

Replace current table with table which allows an individual with a mobility device to have access to get their knees under the table.

Barrier Priority:

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



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External: Tennis Courts

Finding: 12

The surface of the pedestrian access route has changes in level greater than 1/2 inch or between 1/4 inch and 1/2 inch that are not beveled.

Changes in level of 1/4 inch maximum shall be permitted to be vertical. Changes in level between 1/4 inch and 1/2 inch shall be beveled with a slope not steeper than 1:2 (50.0%). Changes in level greater than 1/2 inch up to 6 inches shall have a 1:12 (8.3%) maximum slope. Changes in level greater than 6 inches shall comply with requirements for ramps.

2023 PROWAG Section R302.6.2

Changes in level of 1/4 inch (6.4 mm) maximum shall be permitted to be vertical. Changes in level between 1/4 inch (6.4 mm) and 1/2 inch (13 mm) shall be beveled with a slope not steeper than 1:2 (50.0%). Changes in level greater than 1/2 inch (13 mm) up to 6 inches shall have a 1:12 (8.3%) maximum slope. Changes in level greater than 6 inches (150 mm) shall comply with R407.

Citation:

2023 PROWAG Section: R302.6.2

Budgeting Range:

\$500 - \$1,500.00

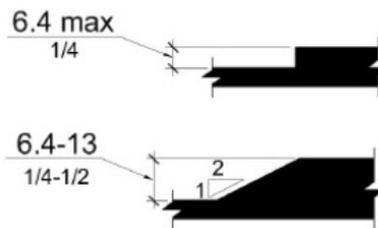
Recommendation:

Extend the asphalt to enable access to the seating area on the outside of the fence and extend the asphalt from the gate of the tennis court to a flat portion of the football field.

This will enable a smooth transition to the football field.

Barrier Priority:

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



External: Tennis Courts

Finding: 13

The surface of the pedestrian access route has openings greater than 1/2 inch.

Horizontal openings in gratings and joints shall not permit passage of a sphere more than 13 mm (0.5 in) in diameter.

2023 PROWAG Section R302.6.3

Horizontal openings in ground surfaces, such as those in gratings and joints, other than flangeway gaps (see R302.6.4), shall not allow passage of a sphere larger than 1/2 inch (13 mm) in diameter. Except where multiple directions of travel intersect, elongated openings are permitted and shall be placed so that the long dimension is perpendicular to the dominant direction of travel.

Citation:

2023 PROWAG Section: R302.6.3

Budgeting Range:

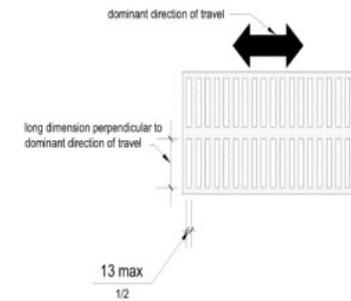
\$500 - \$1,500.00

Recommendation:

Patch area between the tennis courts to ensure a smooth transition and to prevent falls regardless of ability.

Barrier Priority:

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



Finding: 13 Additional Finding Photos



External: Basketball Court

Finding: 14

The surface of the pedestrian access route has changes in level greater than 1/2 inch or between 1/4 inch and 1/2 inch that are not beveled.

Changes in level of 1/4 inch maximum shall be permitted to be vertical. Changes in level between 1/4 inch and 1/2 inch shall be beveled with a slope not steeper than 1:2 (50.0%). Changes in level greater than 1/2 inch up to 6 inches shall have a 1:12 (8.3%) maximum slope. Changes in level greater than 6 inches shall comply with requirements for ramps.

2023 PROWAG Section R302.6.2

Changes in level of 1/4 inch (6.4 mm) maximum shall be permitted to be vertical. Changes in level between 1/4 inch (6.4 mm) and 1/2 inch (13 mm) shall be beveled with a slope not steeper than 1:2 (50.0%). Changes in level greater than 1/2 inch (13 mm) up to 6 inches shall have a 1:12 (8.3%) maximum slope. Changes in level greater than 6 inches (150 mm) shall comply with R407.

Citation:

2023 PROWAG Section: R302.6.2

Budgeting Range:

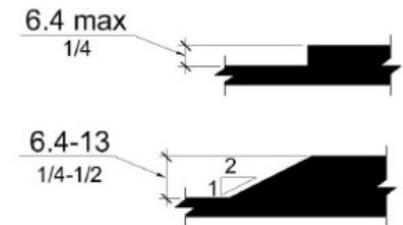
\$500 - \$1,500.00

Recommendation:

Repave area to prevent individuals from being forced out of their wheelchairs as a result of the deep gash in the pavement area and onto the pavement.

Barrier Priority:

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



**Finding: 14 Additional Finding Photos**



**External: Baseball Field**

**Finding: 15**

The surface of the pedestrian access route is not firm, stable and slip resistant.

The surfaces of pedestrian access routes and elements and spaces along the pedestrian access route that are required to be accessible that connect to pedestrian access routes shall be firm, stable, and slip resistant.

2023 PROWAG Section R302.6

The walking surfaces of pedestrian access routes, elements, and spaces that are required to be accessible shall be stable, firm, and slip resistant and shall comply with R302.6.

**Citation:**

2023 PROWAG Section: R302.6

**Budgeting Range:**

\$1,500 - \$4,500.00

**Recommendation:**

Install a path of asphalt from the driveway over to the pedestrian seating area and entrance to the entrance to the ball field

**Barrier Priority:**

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



Side Field: Parking Lot

Finding: 16

There are no van accessible parking stalls.

1 in every 6, minimum of one, required accessible stalls must be a van accessible stall.

There are a total of 89 parking stalls in the parking lot that could be reasonably associated with this facility. There should be a minimum of 4 accessible stalls with a minimum of 1 being designed as van accessible.

2010 ADAS Section 208.2

Parking spaces complying with 502 shall be provided in accordance with Table 208.2 except as required by 208.2.1, 208.2.2, and 208.2.3. Where more than one parking facility is provided on a site, the number of accessible spaces provided on the site shall be calculated according to the number of spaces required for each parking facility.

2010 ADAS Section 208.2.4

For every six or fraction of six parking spaces required by 208.2 to comply with 502, at least one shall be a van parking space complying with 502.

Citation:

2010 ADAS Section: 208.2, 208.2.4

Budgeting Range:

\$50 - \$350.00

Recommendation:

Install a Van Accessible sign next to the 8' wide space that has the 8' access aisle next to the parking space.

Barrier Priority:

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



Total Number of Parking Spaces Provided in Parking Facility	Minimum Number of Required Accessible Parking Spaces
1 to 25	1
26 to 50	2
51 to 75	3
76 to 100	4
101 to 150	5
151 to 200	6
201 to 300	7
301 to 400	8
401 to 500	9
501 to 1000	2 percent of total
1001 and over	20, plus 1 for each 100, or fraction thereof, over 1000

Finding: 16 Additional Finding Photos



Side Field: Accessible Route

Finding: 17

The surface of the pedestrian access route is not firm, stable and slip resistant.

The surfaces of pedestrian access routes and elements and spaces along the pedestrian access route that are required to be accessible that connect to pedestrian access routes shall be firm, stable, and slip resistant.

2023 PROWAG Section R302.6

The walking surfaces of pedestrian access routes, elements, and spaces that are required to be accessible shall be stable, firm, and slip resistant and shall comply with R302.6.

Citation:

2023 PROWAG Section: R302.6

Budgeting Range:

\$1,500 - \$4,500.00

Recommendation:

Install a pedestrian access route from the parking area to the entrance of the field.

Barrier Priority:

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



Side Field: Accessible Route

Finding: 18

A curb ramp is not provided.

Curb ramps shall be provided wherever an accessible route crosses a curb.

1991 ADAS Section 4.7.1

Curb ramps complying with 4.7 shall be provided wherever an accessible route crosses a curb.

2006 521 CMR Section 21.2

Curb cuts shall occur wherever an accessible route crosses a curb and at the following locations:

2006 521 CMR Section 21.2.1

Curb cuts are required at each corner of each intersection, located within the crosswalk and/or the pedestrian path of travel. Curb cuts shall be perpendicular to the curb at street crossings and each shall have a level landing at the top. At marked crossings, the bottom of the ramp run, exclusive of flared sides, shall be wholly contained within the marked crossing. See Fig. 21a. The crosswalk/pedestrian path of travel must also be perpendicular to the curb.

Citation:

1991 ADAS Section: 4.7.1

2006 521 CMR Section: 21.2, 21.2.1

Budgeting Range:

\$1,500 - \$4,500.00

Recommendation:

Install curb ramp near the entrance or the accessible path of travel around field

Barrier Priority:

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



Side Field: Stairs

Finding: 19

Stairways must have handrails on both sides.

Handrails and their extensions must be between 34 inches and 38 inches above the stair nosing or ground. The top handrails shall extend a minimum of 12 inches beyond the top nosing and shall be parallel with the floor or ground surface. At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing. Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.

The orientation of at least one handrail, including the extension, shall be in the direction of the run of the stair and perpendicular to the direction of the stair nosing. Handrail gripping surfaces with a circular cross section shall have an outside diameter of 1-1/4 inches minimum and 2 inches maximum. Handrail gripping surfaces with a non-circular cross section shall have a perimeter dimension of 4 inches minimum and 6 1/4 inches maximum, and a cross-section dimension of 2-1/4 inches maximum. The hand grip portion of handrails shall have a smooth surface with no sharp corners. Gripping surfaces (top or sides) shall be uninterrupted by newel posts, other construction elements or obstructions. Any wall or other surface adjacent to the handrail shall be free of sharp or abrasive elements. Handrails projecting from a wall shall have a space of 1-1/2 inches minimum between the wall and the handrail.

2010 ADAS Section 505.2  
Handrails shall be provided on both sides of stairs and ramps.

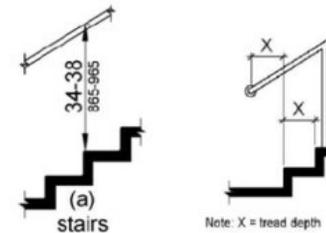
2006 521 CMR Section 27.4.1  
Location: Stairways shall have continuous handrails at both sides of all stairs. The inside handrail on switchback or dogleg stairs shall always be continuous. See Fig. 27c.

Citation: Budgeting Range:  
2010 ADAS Section: 505.2 \$1,500 - \$9,500.00  
2006 521 CMR Section: 27.4.1

Recommendation:  
Install handrails on both sides of stairway leading from parking lot down to field

Barrier Priority:  
High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)

Finding: 19 (Continued)



## Site Accessibility Evaluation



**Westford Academy**  
**30 Patten Rd**  
**Westford, MA 01886**  
**Accessibility Evaluation**  
**Inspection Date: 09/15/2024**  
**Inspector: Joe Prochilo**

Prepared By

**Direct Access**

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**Westford Academy - 30 Patten Rd Westford, MA 01886**

### General: Pre-Visit Information

#### Finding: 1

There is limited review information online about Westford Academy and its facilities. There are no access guides available to assist people with disabilities prior to their visit.

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

#### Citation:

2010 ADAS Section: Advisory

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

#### Recommendation:

International Guidance such as BS83090 (British Standards) highlights the importance of communications prior to the visit. Guidance states that clear and accurate pre-visit information via websites, literature, social media or telecommunications that is easy to access should be available. This should be available in alternative formats including details of modes of transport, parking, drop-off and what levels of accessibility to expect upon arrival.

#### Barrier Priority:

Recommended (5): Should be completed but not necessarily required. (Includes findings and or elements that may have been in compliance with previous editions of the codes and standards but have since changed. Generally, these items are easily modified to provide the greatest degree of access as well as compliance with the most current codes and standards)

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**General: Pre-Visit Information**

**Finding: 2**

Street addresses do not always point to the precise locations. This means that people with disabilities sometimes must travel further to gain an accessible point of access. An innovative idea that could be implemented for every site is What3Words.

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

**Citation:**

2010 ADAS Section: Advisory

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

**Recommendation:**

What3Words has given every 3m in the world a unique 3 word address.. The 3 word address for Westford Academy is `///ceased.fault.targets..` Ensure that this address is added to the website.

**Barrier Priority:**

Recommended (5): Should be completed but not necessarily required. (Includes findings and or elements that may have been in compliance with previous editions of the codes and standards but have since changed. Generally, these items are easily modified to provide the greatest degree of access as well as compliance with the most current codes and standards)

**Internal : Restroom**

**Finding: 3**

The restroom is missing the International Symbol of Accessibility (ISA).

Accessible toilet rooms or bathing rooms shall be identified by the International Symbol of Accessibility (ISA).

Wall signs identifying permanent rooms and spaces of a building shall be in a horizontal format and the characters raised 1/32 inch minimum and shall be sans serif uppercase characters a minimum of 5/8 inch and a maximum of 2 inches high. Contracted Grade 2 Braille shall be in a horizontal format and shall be placed a minimum of 3/8 inch and a maximum of 1/2 inch directly below the tactile characters; flush left or centered. Signs with raised characters or Braille shall be located 48 inches minimum above the finish floor or ground surface, measured from the baseline of the lowest tactile character and 60 inches maximum above the finish floor or ground surface, measured from the baseline of the highest tactile character.

2010 ADAS Section 216.8

Where existing toilet rooms or bathing rooms do not comply with 603, directional signs indicating the location of the nearest toilet room or bathing room complying with 603 within the facility shall be provided. Signs shall comply with 703.5 and shall include the International Symbol of Accessibility complying with 703.7.2.1. Where existing toilet rooms or bathing rooms do not comply with 603, the toilet rooms or bathing rooms complying with 603 shall be identified by the International Symbol of Accessibility complying with 703.7.2.1. Where clustered single user toilet rooms or bathing facilities are permitted to use exceptions to 213.2, toilet rooms or bathing facilities complying with 603 shall be identified by the International Symbol of Accessibility complying with 703.7.2.1 unless all toilet rooms and bathing facilities comply with 603.

1991 ADAS Section 4.1.3(1)

At least one accessible route complying with 4.3 shall connect accessible building or facility entrances with all accessible spaces and elements within the building or facility.

**Citation:**

2010 ADAS Section: 216.8

1991 ADAS Section: 4.1.3(1)

**Budgeting Range:**

\$25 - \$150.00

**Recommendation:**

Install International Symbol of Accessibility (ISA) on bathroom door. Ensure sign has raised characters, lettering, pictograph, and braille.

**Barrier Priority:**

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)

Finding: 3 (Continued)



Internal : Restroom

Finding: 4

The coat hook is installed higher than 54 inches above the floor.

A coat hook shall be provided at a maximum height of 54 inches above the floor.

2006 521 CMR Section 30.6.1(d)

A coat hook shall be provided at a maximum height of 54 inches (54" = 1372mm) above the floor.

Citation:

Budgeting Range:

2006 521 CMR Section: 30.6.1(d)

\$25 - \$150.00

Recommendation:

Lower the coat hook so the midpoint is no higher than 54" above the finished floor.

Barrier Priority:

High (1): Should be completed immediately. (Includes: Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



Internal : Restroom

Finding: 5

The locking/latching hardware is not accessible.

Hand-activated door opening hardware, handles, pulls, latches, locks, and other operating devices on accessible doors shall have a shape that is easy to grasp with one hand and does not require tight grasping, tight pinching or twisting of the wrist to operate.

2010 ADAS Section 604.8.1.2

Toilet compartment doors, including door hardware, shall comply with 404 except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. Doors shall be located in the front partition or in the side wall or partition farthest from the water closet. Where located in the front partition, the door opening shall be 4 inches (100 mm) maximum from the side wall or partition farthest from the water closet. Where located in the side wall or partition, the door opening shall be 4 inches (100 mm) maximum from the front partition. The door shall be self-closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.

1991 ADAS Section 4.13.9

Handles, pulls, latches, locks, and other operating devices on accessible doors shall have a shape that is easy to grasp with one hand and does not require tight grasping, tight pinching, or twisting of the wrist to operate. Lever-operated mechanisms, push-type mechanisms, and U-shaped handles are acceptable designs. When sliding doors are fully open, operating hardware shall be exposed and usable from both sides. Hardware required for accessible door passage shall be mounted no higher than 48 in (1220 mm) above finished floor.

2006 521 CMR Section 30.6.1(b)

The stall door shall have an automatic self-closing hinge device, a pull device on both sides of the door to assist in closing and opening the door, and a lock located approximately 36 inches (36" =914mm) above the floor that does not require tight grasping, pinching, or twisting of the wrist to operate.

Citation: Budgeting Range:

2010 ADAS Section: 604.8.1.2 \$150 - \$350.00

1991 ADAS Section: 4.13.9

2006 521 CMR Section: 30.6.1(b)

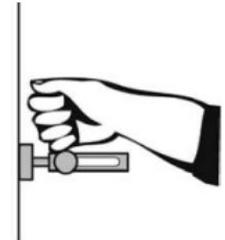
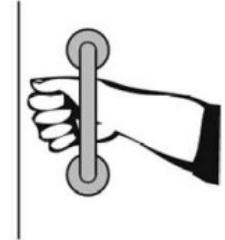
Recommendation:

Replace door hardware with an accessible latch or handle that does not require grasping or pinching that the current mechanism requires.

Barrier Priority:

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)

Finding: 5 (Continued)



Internal : Restroom

Finding: 6

Urinals lack grab bars

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

**Citation:** **Budgeting Range:**

2010 ADAS Section: Advisory **\$150 - \$1,500.00**

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

**Recommendation:**

Install grab bars on either side of urinal to assist individuals with impairments

**Barrier Priority:**

Recommended (5): Should be completed but not necessarily required. (Includes findings and or elements that may have been in compliance with previous editions of the codes and standards but have since changed. Generally, these items are easily modified to provide the greatest degree of access as well as compliance with the most current codes and standards)



Internal : Restroom

Finding: 7

The water and drain pipes under the lavatory are not adequately insulated.

Water supply and drain pipes under lavatories and sinks shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories and sinks.

2010 ADAS Section 606.5

Water supply and drain pipes under lavatories and sinks shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories and sinks.

1991 ADAS Section 4.19.4

Hot water and drain pipes under lavatories shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories.

2006 521 CMR Section 30.9.5

Piping: Sink traps and drains shall be located as close to rear walls as possible. Hot water and drain pipes exposed under sinks shall be recessed, insulated, or guarded. There shall be no sharp or abrasive surfaces under sinks.

**Citation:** **Budgeting Range:**

2010 ADAS Section: 606.5 **\$150 - \$1,500.00**

1991 ADAS Section: 4.19.4

2006 521 CMR Section: 30.9.5

**Recommendation:**

Insure that all pipes under sinks are insulated

**Barrier Priority:**

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



**Internal : Stairways**

**Finding: 8**

Stair nosing is non-compliant there is no color contrast between nosing and stair.

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

**Citation:**

2010 ADAS Section: Advisory

1991 ADAS Section: Advisory

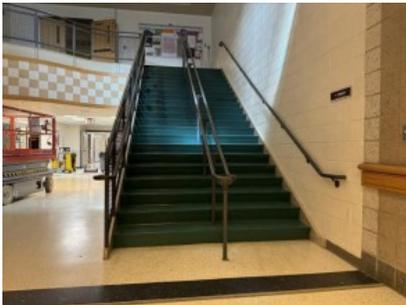
2006 521 CMR Section: 0.0

**Recommendation:**

Paint or apply light colored contrasting paint or tape to help identify the stairs for those with visual impairments

**Barrier Priority:**

Important (2): Should be completed as soon as possible. (Includes; Findings that would remove barriers to the greatest number of people to your goods and services)



## Site Accessibility Evaluation



**Westford Museum**  
**2 Boston Rd**  
**Westford, MA 01886**  
**Accessibility Evaluation**  
**Inspection Date: 09/15/2024**  
**Inspector: Joe Prochilo**

Prepared By

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**Westford Museum - 2 Boston Rd Westford, MA 01886**

### General: Pre-Visit Information

There is limited review information online about Westford Museum and its facilities. There are no access guides available to assist people with disabilities prior to their visit.

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

### Citation:

2010 ADAS Section: Advisory

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

### Recommendation:

International Guidance such as BS83090 (British Standards) highlights the importance of communications prior to the visit. Guidance states that clear and accurate pre-visit information via websites, literature, social media or telecommunications that is easy to access should be available. This should be available in alternative formats including details of modes of transport, parking, drop-off and what levels of accessibility to expect upon arrival.

### Barrier Priority:

Recommended (5): Should be completed but not necessarily required. (Includes findings and or elements that may have been in compliance with previous editions of the codes and standards but have since changed. Generally, these items are easily modified to provide the greatest degree of access as well as compliance with the most current codes and standards)



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**General: Pre-Visit Information**

Street addresses do not always point to the precise locations. This means that people with disabilities sometimes must travel further to gain an accessible point of access. An innovative idea that could be implemented for every site is What3Words.

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

**Citation:**

2010 ADAS Section: Advisory

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

**Recommendation:**

What3Words has given every 3m in the world a unique 3 word address.. The 3 word address for the Westford Museum is //because.lawyer.weaves. Ensure that this address is added to the website.

**Barrier Priority:**

Recommended (5): Should be completed but not necessarily required. (Includes findings and or elements that may have been in compliance with previous editions of the codes and standards but have since changed. Generally, these items are easily modified to provide the greatest degree of access as well as compliance with the most current codes and standards)

**External: Parking Lot**

There are no accessible parking stalls.

Each lot where parking is provided for the public as clients, guests or employees, shall provide accessible parking and shall be located on the shortest accessible route of travel from adjacent parking to an accessible entrance.

A minimum of one accessible stall is required and it must be sized and designated as a van accessible stall.

2010 ADAS Section 208.2.4

For every six or fraction of six parking spaces required by 208.2 to comply with 502, at least one shall be a van parking space complying with 502.

1991 ADAS Section 4.1.2(1)

At least one accessible route complying with 4.3 shall be provided within the boundary of the site from public transportation stops, accessible parking spaces, passenger loading zones if provided, and public streets or sidewalks, to an accessible building entrance.

**Citation:**

2010 ADAS Section: 208.2.4

1991 ADAS Section: 4.1.2(1)

**Budgeting Range:**

\$150 - \$950.00

**Recommendation:**

Install one accessible parking space with an Accessible Parking sign with an ISA symbol. The accessible parking space must be 8' wide with an 8' wide access aisle and Van Accessible sign.

**Barrier Priority:**

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



Total Number of Parking Spaces Provided in Parking Facility	Minimum Number of Required Accessible Parking Spaces
1 to 25	1
26 to 50	2
51 to 75	3
76 to 100	4
101 to 150	5
151 to 200	6
201 to 300	7
301 to 400	8
401 to 500	9
501 to 1000	2 percent of total
1001 and over	20, plus 1 for each 100, or fraction thereof, over 1000

**External: Parking Lot**

The surfaces of the accessible parking spaces and access aisles are not firm, stable, and slip resistant.

Floor and ground surfaces shall be stable, firm, and slip resistant

Parking spaces and access aisles serving them shall comply with 302. Access aisles shall be at the same level as the parking spaces they serve. Changes in level are not permitted.

2010 ADAS Section 302.1  
Floor and ground surfaces shall be stable, firm, and slip resistant and shall comply with 302.

2010 ADAS Section 502.4  
Parking spaces and access aisles serving them shall comply with 302. Access aisles shall be at the same level as the parking spaces they serve. Changes in level are not permitted.

**Citation:** 2010 ADAS Section: 302.1, 502.4  
**Budgeting Range:** \$1,500 - \$6,500.00

**Recommendation:**  
Repave and repair entire parking lot where cars park in non-defined parking areas.

**Barrier Priority:**  
High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



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**External: Path to Liber**

The accessible route contains loose gravel and/or surface materials that do not provide for a stable, firm slip resistant surface.

Floor and ground surfaces shall be stable, firm, and slip resistant.

2010 ADAS Section 302.1  
Floor and ground surfaces shall be stable, firm, and slip resistant and shall comply with 302.

1991 ADAS Section 4.5.1  
Ground and floor surfaces along accessible routes and in accessible rooms and spaces including floors, walks, ramps, stairs, and curb ramps, shall be stable, firm, slip-resistant, and shall comply with 4.5.

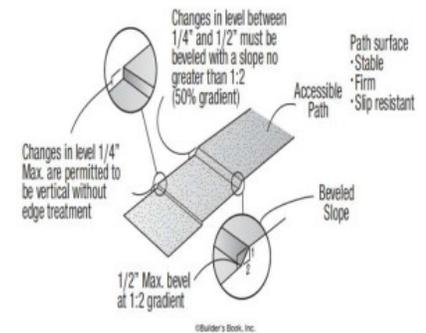
2006 521 CMR Section 29.1  
Ground and floor surfaces including floors, walks, ramps, and curb cuts shall be stable, firm, slip resistant, and maintained with materials that ensure continued slip resistance.

**Citation:** 2010 ADAS Section: 302.1  
**Budgeting Range:** \$500 - \$4,500.00

1991 ADAS Section: 4.5.1  
2006 521 CMR Section: 29.1

**Recommendation:**  
Install newly paved complete Accessible route from parking lot to Liberty Bell display

**Barrier Priority:**  
High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



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Finding: 938508 (Continued)

External: Doorway

The doors have multiple violations.

All interior and exterior doors must be maintained so that the operating pressure does not exceed 5 lb. force to open measured at the operating hardware or 30 inches from the hinges whichever is greater. The bottom on the push side must be smooth and free of obstructions (hold open devices). Opening hardware must be mounted between 30 and 48 inches above the floor or ground. The sweep period for doors with closers shall be adjusted so that from an open position of 70 degrees, the door will take at least 3 seconds to move to a point 3 inches from the latch, measured to the leading edge of the door. All doors required to have an EXIT sign above the door must also have a tactile sign adjacent to the door, on the latch side that says EXIT. Characters shall be raised 1/32 inch minimum and shall be sans serif uppercase characters accompanied by contracted Grade 2 Braille. Raised characters shall be a minimum of 5/8 inch and a maximum of 2 inches high. The threshold at a doorway shall be no higher than 1/2 inch. Changes in level at thresholds between 1/4 inch and 1/2 inch must be beveled at 1:2 or less. 1/4 inch is the maximum allowed vertical rise.

1991 ADAS Section 4.13.1  
Doors required to be accessible by 4.1 shall comply with the requirements of 4.13.

Citation: 1991 ADAS Section: 4.13.1  
Budgeting Range: \$150 - \$4,500.00

Recommendation:  
Insert an automatic door opener with a speaker system to enable voice communication between internal and external areas at the accessible entrance. Automatic door Opener must be operational while the museum is open.

Barrier Priority:  
High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



**External: Doorway**

Door threshold is sagging and needs to be replaced for safety purposes.

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

**Citation:** **Budgeting Range:**

2010 ADAS Section: Advisory

\$500 - \$2,500.00

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

**Recommendation:**

Replace sagging and rotted door threshold.

**Barrier Priority:**

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



**Internal: Displays**

All information displayed, regardless of height, lack QR codes and other display information necessary to assist blind and low vision customers and visitors from enjoying each displayed item. At the very least signage with raised lettering and braille should be provided for each displayed item.

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

**Citation:** **Budgeting Range:**

2010 ADAS Section: Advisory

\$1,500 - \$3,500.00

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

**Recommendation:**

Ensure that every displayed item has a QR code that blind and low vision individuals are able to identify and gather the appropriate information on each item displayed. Another option is to have a website or a program developed for blind and low vision visitors audio described programs that describes each item displayed. Install at a minimum signage with raised lettering and braille with a description for each displayed item.

**Barrier Priority:**

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



**Internal: Restroom**

The toilet compartment does not meet the minimum size requirements.

**Standard Accessible Toilet Stall:** Standard accessible toilet stalls shall be at least 60 inches wide and 72 inches deep. See Fig. 30a and 30b. Arrangements shown for standard accessible toilet stalls may be reversed to allow either a left- or right-hand approach. Water closets in accessible stalls shall be located on the 60 inch (60" = 1524mm) wall and shall comply with 521 CMR 30.7, Water closets.

2006 521 CMR Section 30.6.1

*Standard Accessible Toilet Stall:* Standard accessible toilet stalls shall be at least 60 inches (60" = 1524mm) wide and 72 inches (72" = 1829mm) deep. See Fig. 30a and 30b. Arrangements shown for standard accessible toilet stalls may be reversed to allow either a left- or right-hand approach. Water closets in accessible stalls shall be located on the 60 inch (60" = 1524mm) wall and shall comply with 521 CMR 30.7, Water closets.

**Citation:**

2006 521 CMR Section: 30.6.1

**Budgeting Range:**

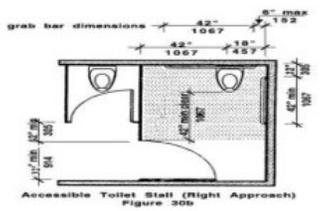
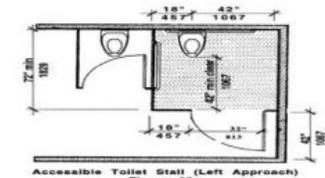
\$1,500 - \$9,500.00

**Recommendation:**

Investigate installing a unisex accessible restroom able to meet 521cmr and ADA 2010 accessibility requirements

**Barrier Priority:**

High (1): Should be completed immediately. (Includes; Findings that have little or no cost, were in violation of the codes at the time of construction, or pose an imminent safety threat)



**Finding: 938516 Additional Finding Photos**



**Internal: No Access to Second Floor**

There is no access for those who use mobility devices to access displays located on the second floor

2010 ADAS Section Advisory  
None

1991 ADAS Section Advisory  
None

2006 521 CMR Section 0.0  
N/A

**Citation:** **Budgeting Range:**

2010 ADAS Section: Advisory **\$1,500 - \$9,500.00**

1991 ADAS Section: Advisory

2006 521 CMR Section: 0.0

**Recommendation:**

Investigate installing an external elevator to give those who are unable to climb stairs access to all second floor displays and programs. As an alternative provide a book with pictures and descriptions of all items on the second floor.

**Barrier Priority:**

Recommended (5): Should be completed but not necessarily required. (Includes findings and or elements that may have been in compliance with previous editions of the codes and standards but have since changed. Generally, these items are easily modified to provide the greatest degree of access as well as compliance with the most current codes and standards)



**Finding: 938517 Additional Finding Photos**

