DUDLEY-CHARLTON REGIONAL SCHOOL DISTRICT

Meeting of the Dudley-Charlton Regional School Committee
Wednesday, June 12, 2024, at **7:00 PM**
Shepherd Hill Regional High School
68 Dudley-Oxford Road
Dudley, MA 01571

Minutes

I. Call Meeting to Order

The meeting was called to order at 7:03 PM.

In attendance:

Cathleen Carmignani
Nicole Enberg
Kelly Szela
Jaime Dell'Ovo
Jeanne Costello
Caitlynn Panczyk (arrived at 7:38)
Maureen Chickering

II. Pledge of Allegiance

Children from Mason Road Elementary School helped to say the Pledge of Allegiance

III. Moment of Silence

A moment of silence was observed in honor of former employees, Carolyn Velier Earp and Mary Jenkins and for AJ Congdon, a student at DCRSD, who recently passed away.

IV. Mason Road School Showcase - Principal Desto

Preschool students presented how they learned to read with Sounds & Words.

V. Consent Agenda Items

a. Approval of the Warrant
b. Approval of Minutes Regular Meeting – May 8, 2024
c. Approval of Out of State/Overnight Field Trip (Policy IJOA) – #466 Washington, DC - DMS

A motion by K. Szela, second by J. Dell'Ovo to approve all consent agenda items was approved unanimously.

C. Carmignani – Yes
J. Costello – Yes
M. Chickering – Yes
N. Enberg – Yes
K. Szela – Yes
J. Dell'Ovo - Yes

VI. Communications

J. Dell'Ovo stated it was an honor to be able to give Nicholas his diploma and stated some parents were questioning who gave diplomas out to the rest of the graduating students. She explained to those parents that it was the chair of the school committee and they asked why the principal or someone the children see often wasn't giving them out. C. Carmignani agreed and stated she has spoken to Principal Elwell about this. It's a tradition that the chair hands out diplomas.
N. Enberg stated she was surprised last year and didn't know who it was handing out diplomas. She also stated most children graduating didn't know who she was and believes Principal Elwell should hand out diplomas.

J. Costello likes the tradition of the chair handing out diplomas.

C. Carmignani thinks Principal Elwell and Superintendent Lamarche need to discuss this further.

K. Szela wanted to acknowledge the class gift which was custodial funds for doing such a great job.

VII. Superintendent's Report

Superintendent Lamarche congratulated C. Carmignani on her re-election.

Superintendent Lamarche wanted to publicly thank the Dudley voters for approving the capital plan for the district. He also thanked the Dudley and Charlton voters for approving the budget for 2024-2025 fiscal year.

Superintendent Lamarche announced that Gregg Desto has accepted the position of Dudley Middle School Principal pending contract negotiations. He publicly wanted to thank the search group for finding the next Dudley Middle School Principal.

Superintendent Lamarche announced that Christopher Audette has accepted the position of Dudley Elementary School Principal pending contract negotiations. He publicly wanted to thank the search group for finding the next Dudley Elementary School Principal.

C. Carmignani wanted to publicly thank Mr. Tucker for filling the role of Dudley Middle School Principal and wished him luck stepping back into his role of Assistant Principal.

VIII. Public Comment

There was no one to speak during public comment this evening.

IX. New Business

A. Presentation - Facilities Condition Assessment - Habeeb & Associates Architects

A presentation from Habeeb & Associates Architects was presented by Kevin Provencher
No questions were asked by the School Committee Members.

B. Reorganization of the Dudley-Charlton Regional School Committee

A motion by C. Panczyk, seconded by J. Dell'Ovo to nominate Kelly Szela as chair of the DCRSD School Committee was passed with a 4/3 vote.

C. Carmignani - No
M. Chickering - No
J. Costello - No
J. Dell'Ovo - Yes
C. Panczyk - Yes
N. Enberg - Yes
K. Szela - Yes

A motion by J. Costello, seconded by M. Chickering was made to nominate C. Carmignani as chair of the DCRSD School Committee was not voted on.

K. Szela accepted the nomination and is the new chair of the DCRSD School Committee.

A motion by M. Chickering, seconded by C. Carmignani to nominate Jeanne Costello as Vice-Chair was approved unanimously.

C. Carmignani - Yes
M. Chickering - Yes
J. Dell'Ovo - Yes
C. Panczyk - Yes
N. Enberg- Yes
K. Szela - Yes
J. Costello - Yes

A motion by C. Panczyk, seconded by J. Costella to nominate Camie Lamica as the DCRSD Treasurer was approved unanimously.

C. Carmignani - Yes
M. Chickering - Yes
J. Dell'Ovo - Yes
C. Panczyk - Yes
N. Enberg - Yes
K. Szela - Yes
J. Costello - Yes

A motion by J. Costello, seconded by C. Panczyk to nominate Superintendent Lamarche as the Assistant Treasurer of DCRSD School Committee was approved unanimously.

C. Carmignani - Yes
M. Chickering - Yes
J. Dell'Ovo - Yes

C. Panczyk - Yes
N. Enberg - Yes
K. Szela - Yes
J. Costello - Yes

A motion by C. Panczyk, seconded by J. Costello to nominate Aryn Clarke and Erin Glenn as secretaries of DCRSD School Committee was approved unanimously.

C. Carmignani - Yes
M. Chickering - Yes
J. Dell'Ovo - Yes
C. Panczyk - Yes
N. Enberg - Yes
K. Szela - Yes
J. Costello - Yes

A motion by C. Panczyk, seconded by J. Dell'Ovo to nominate Superintendent Lamarche as Southern Worcester County Educational Collaborative Representative was approved unanimously.

C. Carmignani - Yes
M. Chickering - Yes
J. Dell'Ovo - Yes
C. Panczyk - Yes
N. Enberg - Yes
K. Szela - Yes
J. Costello - Yes

A motion by J. Costello, seconded by C. Panczyk to nominate Camie Lamica for the Borrowing Authorization position was approved unanimously.

C. Carmignani - Yes
M. Chickering - Yes
J. Dell'Ovo - Yes
C. Panczyk - Yes
N. Enberg - Yes
K. Szela - Yes
J. Costello - Yes

N. Enberg, C. Carmignani and K. Szela were selected for the Budget & Finance Subcommittee.

J. Costello, M. Chickering and J. Dell'Ovo were selected for the Policy Review Subcommittee.

M. Chickering, J. Costello and J. Dell'Ovo were selected for the Capital Outlay and Safety SubCommittee.

N. Enberg, C. Panczyk and C. Carmignani were selected for the Curriculum for Teaching and

Learning Subcommittee.

K. Szela and C. Pancyzk were selected for the Executive Session Minutes Committee.

N. Enberg, C. Carmignani and K. Szela were selected for the School Calendar Committee.

K. Szela, C. Carmignani and M. Chickering were selected for the Wage & Benefits Negotiations Committee.

K. Szela, C. Carmignani and N. Enberg were selected for Dudley-Charlton Teacher's Negotiations Committee.

M. Chickering was selected for the Special Education Parents Advisory Council (SEPAC) Committee.

M. Chickering was selected to be the Town of Dudley liaison.

N. Enberg was selected to be the Town of Charlton liaison.

J. Dell'Ovo was selected to be the DCEF liaison.

C. Adoption of English Language Arts High Quality Instructional Materials - Acting Assistant Superintendent/DES Principal Kelly True

K. True showed a video and made a presentation on ELA. Amiee Vitkus also made a presentation on the use of ELA.

A motion by J. Costello, seconded by C. Carmignani to adopt the HMH Into Literature 6th-8th grade and Into Reading Grade 5 for the 2024-2025 school year was approved unanimously.

C. Carmignani- Yes
M. Chickering- Yes
J. Dell'Ovo- Yes
C. Panczyk- Yes
N. Enberg- Yes
K. Szela- Yes
J. Costello- Yes

D. 2024-2025 Student Handbook Changes

Principal Tucker proposed the following changes for Dudley and Charlton Middle Schools:

- Changing from trimester to quarters
- Summer school
- Face masks are removed
- Staff directory updated
- Infraction and consequences

C. Carmignani questioned the infraction and consequences asking that a lawyer take a look at them. She also stated a "step" program is used for discipline but it's not currently in the

handbook. She asked that it be part of the handbook and Principal Tucker agreed. Superintendent Lamarche asked that no action be taken on the handbook until a future meeting.

Principal Elwell proposed the following changes for Shepherd Hill Regional High School:

- Electronic devices
- Parking payments
- Lavatory usage

A motion by N. Enberg, seconded by M. Chickering to approve the proposed handbook changes for Shepherd Hill Regional High School for the 2024-2025 school year was approved unanimously.

C. Carmignani- Yes
M. Chickering- Yes
J. Dell'Ovo- Yes
C. Panczyk- Yes
N. Enberg- Yes
K. Szela- Yes
J. Costello- Yes

E. Vote - Superintendent's Contract

During the School Committee meeting, there were conversations regarding the timing of the vote for the Superintendent contract. C. Carmignani wanted to vote on this issue tonight even though Superintendent Lamarche's contract isn't being renewed until January. K. Szela wanted to wait and have further discussions with Superintendent Lamarche.

A motion by C. Carmignani, seconded by J. Costello to enter into contract negotiations with Superintendent Lamarche was approved unanimously.

C. Carmignani - Yes
M. Chickering - Yes
J. Dell'Ovo - Yes
C. Panczyk - Yes
N. Enberg - Yes
K. Szela - Yes
J. Costello - Yes

A motion by C. Carmignani, seconded by C. Paczyk to end the regular School Committee Session was passed unanimously at 9:45 PM.

C. Carmignani - Yes

M. Chickering - Yes
J. Dell'Ovo - Yes
C. Panczyk - Yes
N. Enberg - Yes
K. Szela - Yes
J. Costello - Yes

X. Executive Session: To discuss strategy with respect to collective bargaining or litigation if an open meeting may have a detrimental effect on the bargaining **[DMS - Principal, DES - Principal]** or litigating position of the public body and the chair so declares, only to reconvene into regular session, to take votes if necessary, and adjourn.

A motion by J. Costello, seconded by J. Dell'Ovo to enter into Executive Session was passed unanimously at 9:50 PM.

C. Carmignani – Yes
J. Costello – Yes
M. Chickering – Yes
N. Enberg – Yes
C. Panczyk – Yes
K. Szela – Yes
J. Dell'Ovo - Yes

The School Committee returned from Executive Session at 10:12 PM.

XI. Adjourn

A motion by C. Carmignani, seconded by M. Chickering was made to adjourn the meeting at 10:13 PM and passed unanimously.

C. Carmignani – Yes
J. Costello – Yes
M. Chickering – Yes
N. Enberg – Yes
C. Panczyk – Yes
K. Szela – Yes
J. Dell'Ovo - Yes

The items listed, which may be discussed at the meeting, are those reasonably anticipated by the chair. Not all items listed may, in-fact be discussed, and other items not listed may also be brought up for discussion to the extent permitted by law. The School Committee may vote on all items listed on this agenda.

2023-2024 School Committee Goals

Fiscal Responsibility

- *The Dudley-Charlton School Committee will revise its Capital Plan to reflect the needs for Shepherd Hill Regional High School.*
- *The Dudley-Charlton School Committee will continue its commitment to seeking cost-saving opportunities to ensure a sustainable budget for FY25.*
- *The Dudley-Charlton School Committee will seek input on budget priorities from staff, students, and community members and will educate the constituents on all aspects of the budget development process.*
- *The Dudley-Charlton School Committee will commission an operational audit during the 2023-2024 school year.*

Enhance Educational Excellence

- *The Dudley-Charlton School Committee will seek to maintain the integrity of a comprehensive educational experience for all students.*
- *The Dudley-Charlton School Committee will ensure that students have access to modern equipment and technologies.*

Enhance Community Outreach and Stakeholder Engagement

- *The Dudley-Charlton School Committee will increase outreach to our communities by strengthening our working relationships with local boards and expanding our presence at school and community events.*
- *The Dudley-Charlton School Committee will continue to provide opportunities for all stakeholders to be cognizant of the resources available to our students and families within the district, as well as any major initiatives within the District.*

Next Meeting Dates

School Committee Meeting: Wednesday, June 26, 2024, 6:30 PM Charlton Middle School
Budget and Finance Subcommittee: TBD – Video Conference
Policy Review Subcommittee: TBD – District Office
Curriculum Subcommittee for Teaching and Learning: TBD – Video Conference
Capital Outlay/Safety Subcommittee: TBD – Video Conference

Anticipated Future Agenda Items: DCRSD Student Achievement Report (April), Update Middle School English Language Arts HQIM (April), School Choice (April), Annual Acceptance of DCRSD Staff School Aged Students (April), Superintendent's Evaluation (April), School Councils (May), SEPAC (May), Student Handbooks (May), Capital Planning (June)

DUDLEY-CHARLTON REGIONAL SCHOOL DISTRICT

Meeting of the Dudley-Charlton Regional School Committee
Wednesday, June 12, 2024, at **7:00 PM**
Shepherd Hill Regional High School
68 Dudley-Oxford Road
Dudley, MA 01571

Agenda

I. Call Meeting to Order

II. Pledge of Allegiance

III. Moment of Silence

IV. Mason Road School Showcase – Principal Desto

V. Consent Agenda Items

a. Approval of the Warrant
b. Approval of Minutes Regular Meeting – May 9, 2024
c. Approval of Out of State/Overnight Field Trip (Policy IJOA) – #446 Washington, DC - DMS

VI. Communications

VII. Superintendent's Report

VIII. Public Comment

IX. New Business

A. Presentation – Facilities Condition Assessment – Habeeb & Associates Architects
B. Reorganization of the Dudley-Charlton Regional School Committee
C. Adoption of English Language Arts High Quality Instructional Materials – Acting Assistant Superintendent/DES Principal Kelly True
D. 2024-2025 Student Handbook Changes – Principals
E. Vote – Superintendent's Contract

X. Executive Session: To discuss strategy with respect to collective bargaining or litigation if an open meeting may have a detrimental effect on the bargaining **[DMS – Principal, DES - Principal]** or litigating position of the public body and the chair so declares, only to reconvene into regular session, to take votes if necessary, and adjourn.

XI. Adjourn

The items listed, which may be discussed at the meeting, are those reasonably anticipated by the chair. Not all items listed may, in-fact be discussed, and other items not listed may also be brought up for discussion to the extent permitted by law. The School Committee may vote on all items listed on this agenda.

"…to advance the knowledge and well-being of our children and our community."

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Curriculum Subcommittee for Teaching and Learning: TBD – Video Conference
Capital Outlay/Safety Subcommittee: TBD – Video Conference

Anticipated Future Agenda Items: Education Resource Strategies [ERS] Report (June), School Committee Summer Schedule (June)



Lamarche, Steven <slamarche@dcrsd.org>

Request #446 Complete

1 message

Form Approvals <districtoffice@dcrsd.org> Thu, May 23, 2024 at 9:14 AM
Reply-To: mtucker@dcrsd.org
To: slamarche@dcrsd.org

REQUEST #446 | MAY 22, 2024

Field Trip/Event Form - Day Trips (In or Out of State)

The request is now **complete**.

Approval history

Complete

Approved by mtucker@dcrsd.org

Approved by slamarche@dcrsd.org

Copy Sent to districtoffice@dcrsd.org

Copy Sent to eglenn@dcrsd.org

Copy Sent to aclarke@dcrsd.org

Approved by dzieminski@dcrsd.org

Requestor:	mtucker@dcrsd.org
School:	DMS
Lead teacher requesting:	Mike Tucker
Grade/group:	8th grade
Field trip/event title:	DMS 8th grade Washington DC Trip
Address/destination of field trip/event:	Washington DC, Maryland

Location contact/telephone number:	Dudley Middle School 508-943-2224
As a result of selecting this field-based curriculum experience or event, how will your students benefit and what will your students know and be able to do as a result?:	Opportunity to experience Washington DC museums and attractions.
What are your student followup activities or lessons?:	Civics lesson on government
Field trip/event date:	Mar 24, 2025
Departure time:	7:00 AM
Return time:	10:00 PM
Number of students:	130
Number of chaperones/adults:	8
List the names of all chaperones/adults attending:	TBD
Are substitutes required?:	Yes
Number of substitutes required:	6
Do all chaperones have an up-to-date CORI completed by the DCRSD?:	Yes
Two weeks prior to the event/field-trip, the Special Education Coordinator must receive a list of attending students. The Special Education Coordinator will review the needs of students with disabilities and identify accommodations or supports that may be needed to ensure each student can access and participate in the planned activities.:	Understood
Did your school nurse review a preliminary list of attending students?:	Yes
You are required to present your school nurse with a complete list of attendees two weeks prior to departure.:	Understood
Funding Source:	PTO, Students/Caregivers, Possible fund raising.
Total cost of the field-trip/event including transportation:	0
Per student cost:	1148
Additional information:	Same company we went through last March. Educational travel adventures

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DUDLEY-CHARLTON REGIONAL SCHOOL DISTRICT

School Committee
Superintendent's Report
06.12.2024

I publicly acknowledge and thank the voters in Dudley and Charlton for their support for the fiscal year 2025 budget. Your positive vote ensures that we can continue to meet the needs of our students, providing them with the resources and opportunities they deserve and you expect.

As we look ahead, we acknowledge that the next fiscal year will require continued fiscal discipline and diligence. Our work is far from over, and we remain dedicated to gaining your confidence and support. Together, we can achieve great things for our community and our students.

As a reminder, we have a series of reviews and evaluations that will be instrumental to our overall understanding of organizational planning and accountability for future fiscal years. Tonight, we are reviewing all seven school facilities in preparation for capital planning to ensure we provide a safe and healthy learning space for our students and teachers.

At the next meeting, Education Resource Strategies will present their findings after conducting a review of our human capital, school funding and resources, current school design, and our operational strategies as a district office.

In the fall, currently scheduled for September 2024, the Department of Revenue and the Department of Elementary and Secondary Education will review our operational fiscal practices. All three processes will enhance our planning and understanding as we continue to strive for excellence in our educational environment.

Together, we will achieve great things for our community and our students. Once again, we appreciate your support this year and look forward to our work together moving forward.

I'm pleased to inform you that Mr. Gregg Desto has accepted the position of Dudley Middle School Principal, pending final contract negotiations. This is very exciting news for Dudley-Charlton and the Dudley Middle School. Mr. Desto is an experienced Dudley-Charlton leader and educator. Since leaving his position as Superintendent of DCRSD, he has been at Auburn Middle School. This opportunity represents Mr. Desto's "coming home" and his dedication to the communities of Dudley and Charlton. We look forward to finalizing his return in the coming week and formally introduce him at the next School Committee meeting.

With that shared, I publicly thank the search group for their work in finding the next Dudley Middle School Principal. Please join me in thanking them.

Michael Tucker, Facilitator
Sherri Hoffman
Kim Legere
Michelle Leblanc
Delia Galloni
Madison Clouatre
Sheryl Zablocki
Samantha Gatsogiannis
Christina LaPorte
Caitlynn Panczyk

I'm pleased to inform you that Mr. Christopher Audette has accepted the position of Dudley Elementary School Principal, pending final contract negotiations. A ten-member DES Principal Search Group, with a cross-representation of teachers, administrators, and a school committee representative, recommended Mr. Audette. Principal Audette has impressive credentials as a hard-working, dynamic educator and knowledgeable instructional leader with 24 years of leadership experience. He is currently serving as the principal of the Patrick Lyndon Pilot School in West Roxbury.

Principal Audette has established effective working relationships with his peers, staff, and constituents. Furthermore, he was a fellow at the Lynch Leadership Academy at Boston College and completed extensive postgraduate work in Educational Leadership. He holds a Master of Education with a concentration in Elementary Education/Reading Specialist from Rhode Island College, as well as a Bachelor of Arts in History and Secondary Education from the same institution.

We are excited to have him join our leadership team in the Dudley-Charlton Regional School District as the next leader of Dudley Elementary School. We look forward to finalizing his return in the coming week and formally introduce him at the next School Committee meeting.

I would also like to publicly thank the search group for their diligent work in finding the next Dudley Elementary School Principal. Please join me in thanking them.

Kelly True, Facilitator
Donna Sanches
Jen Hass
Jane Bannister
Christine Taylor
Vanessa Muscente
Julie Winans
Jen Desto
Maureen Chickering
Nicole Enberg

As a reminder, these are the School Committee fiscal year 2025 budget priorities.

1. ***Maintain existing staff size and programs without reductions***

   - Maintain foreign language staffing 5-12
   - Restore 0.5 FTE librarian at each middle school
   - Maintain average class size of 22 for Grades K-8
   - Maintain co-curricular programs
   - Retain kindergarten aides
   - Add accounting/data specialist
   - Explore full day pre-k programs
   - Add new technologies to support learning
   - Complete an *"Operational Audit"* of administrative/management service

2. ***Continue to look for innovative ideas for cost savings without impact to programs***

   - Explore in-district specialized transportation rather than contracted service model
   - Explore outcomes from the capital plan architectural review of all school facilities
   - Explore solar power options for all DCRSD schools

3. ***Work with the communities of Dudley and Charlton to find recurring revenues to support annual sustainable budget increases for the District while providing support for prudent fiscal planning***

   - Reduce annual usage of Excess and Deficiency support to $500,000 per year, and increase contingency line item so that budget matches usage.
   - Reduce reliance on School Choice by 20% ($180,000)

Respectfully Submitted By:

Steven M. Lamarche
Superintendent



H&A | HABEEB & ASSOCIATES ARCHITECTS

FACILITIES CONDITION ASSESMENT AND STUDENT CAPACITY REPORT

DUDLEY-CHARLTON REGIONAL SCHOOL DISTRICT

68 DUDLEY-OXFORD ROAD, DUDLEY, MA 01571

Charlton Elementary School
9 Burlingame Road, Charlton, MA 01507

Heritage School
34 Oxford Road, Charlton, MA 01507

Charlton Middle School
2 Oxford Road, Charlton, MA 01507

Mason Road School
20 Mason Road, Dudley, MA 01571

Dudley Elementary School
16 School Street, Dudley, MA 01571

Dudley Middle School
70 Dudley-Oxford Road, Dudley, MA 01571

Shepherd Hill Regional High School
68 Dudley-Oxford Road, Dudley, MA 01571

June 12, 2024

ACKNOWLEDGEMENTS

Dudley-Charlton Regional School District

Superintendent of Schools
Steven Lamarche

Facilities Director
Joseph Caron

Head Custodians
Scott Cushing, Charlton Elementary School
Craig Smith, Mason Road
Christopher Tittle, Heritage School
Wayne Tower, Dudley Elementary School
James Rivera, Charlton Middle School
Mark Andre, Dudley Middle School
Gregory Duval, Shepherd Hill Regional High School

Habeeb & Associates Architects

Project Manager
Kevin Provencher, AIA, LEED AP BD+C
kprovencher@habeebarch.com

Job Captain
Thomas Peterson, Associate AIA
tpeterson@habeebarch.com

Job Captain
James Pongsa, Associate AIA
jpongsa&habeebarch.com

H&A ARCHITECTS

STUDENT CAPACITY ASSESSMENT

Dudley-Charlton Regional School District identified the following space needs for Student Support Services:

Elementary Schools (PK-1): Charlton Elementary, Mason Road Schools

- Self-Contained SPED: 1 per designated school @ 950 sf
- Special Education Room: 1 per school @ 500 sf
- SPED Resource Rooms: 4 per school @ 250 sf ea.

Elementary Schools (2-4): Dudley Elementary and Heritage Schools

- Self-Contained SPED: 1 per designated school @ 950 sf
- Special Education Room: 2 per school @ 500 sf ea.
- SPED Resource Rooms: 4 per school @ 250 sf ea.

Middle Schools (5-8): Charlton Middle and Dudley Middle Schools

- Self-Contained SPED: 1 per designated school @ 950 sf
- Special Education Room: 6 per school @ 500 sf ea.
- Science Classroom: 1 per school @ 1440 sf

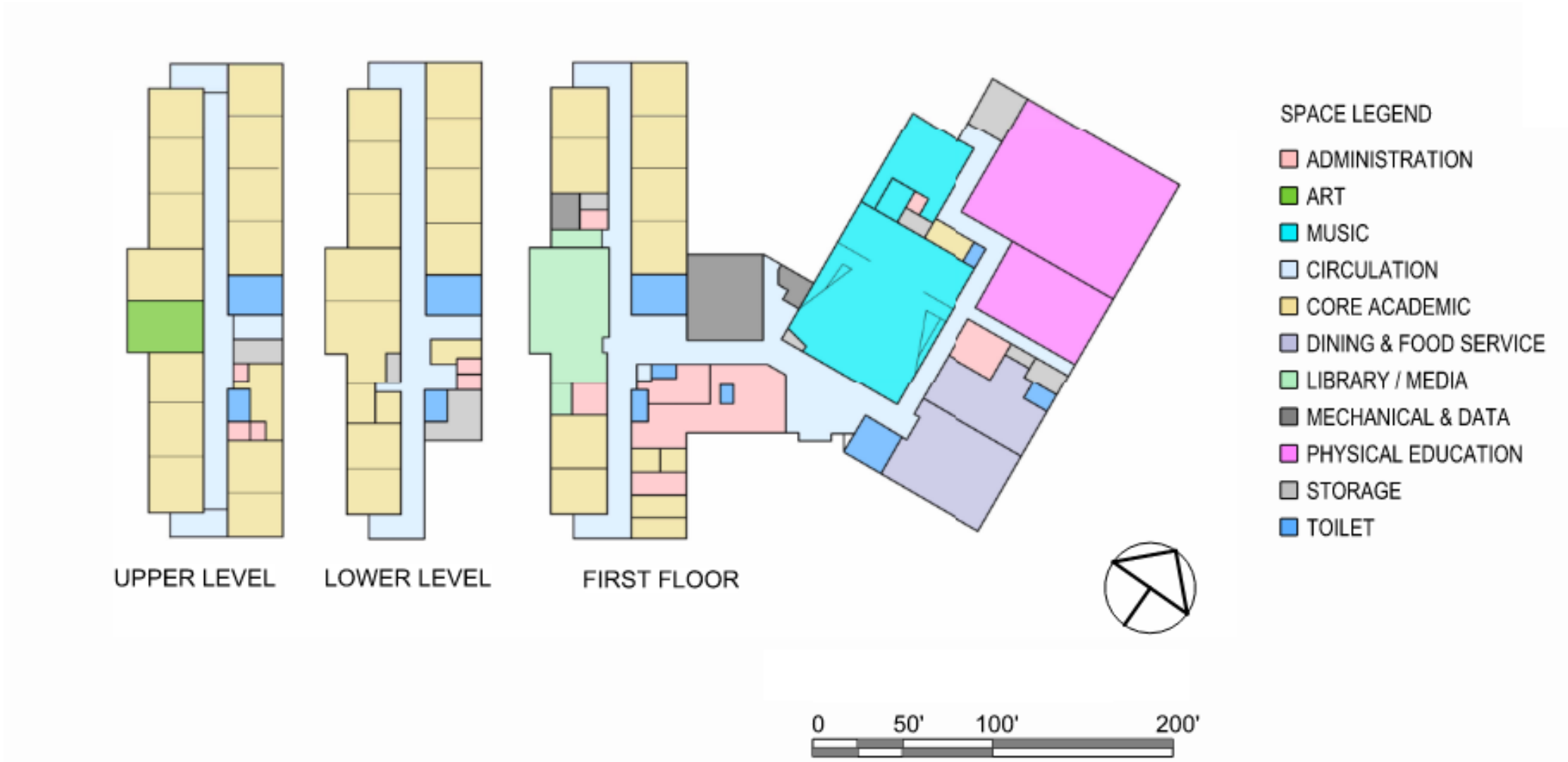
High School (9-12): Shepherd Hill Regional High School

- STEM Room: 2 per school @ 1080 sf ea.
- Science Classroom: 9 per school @ 1440 sf ea.



STUDENT CAPACITY ASSESSMENT

DUDLEY MIDDLE SCHOOL



H&A ARCHITECTS

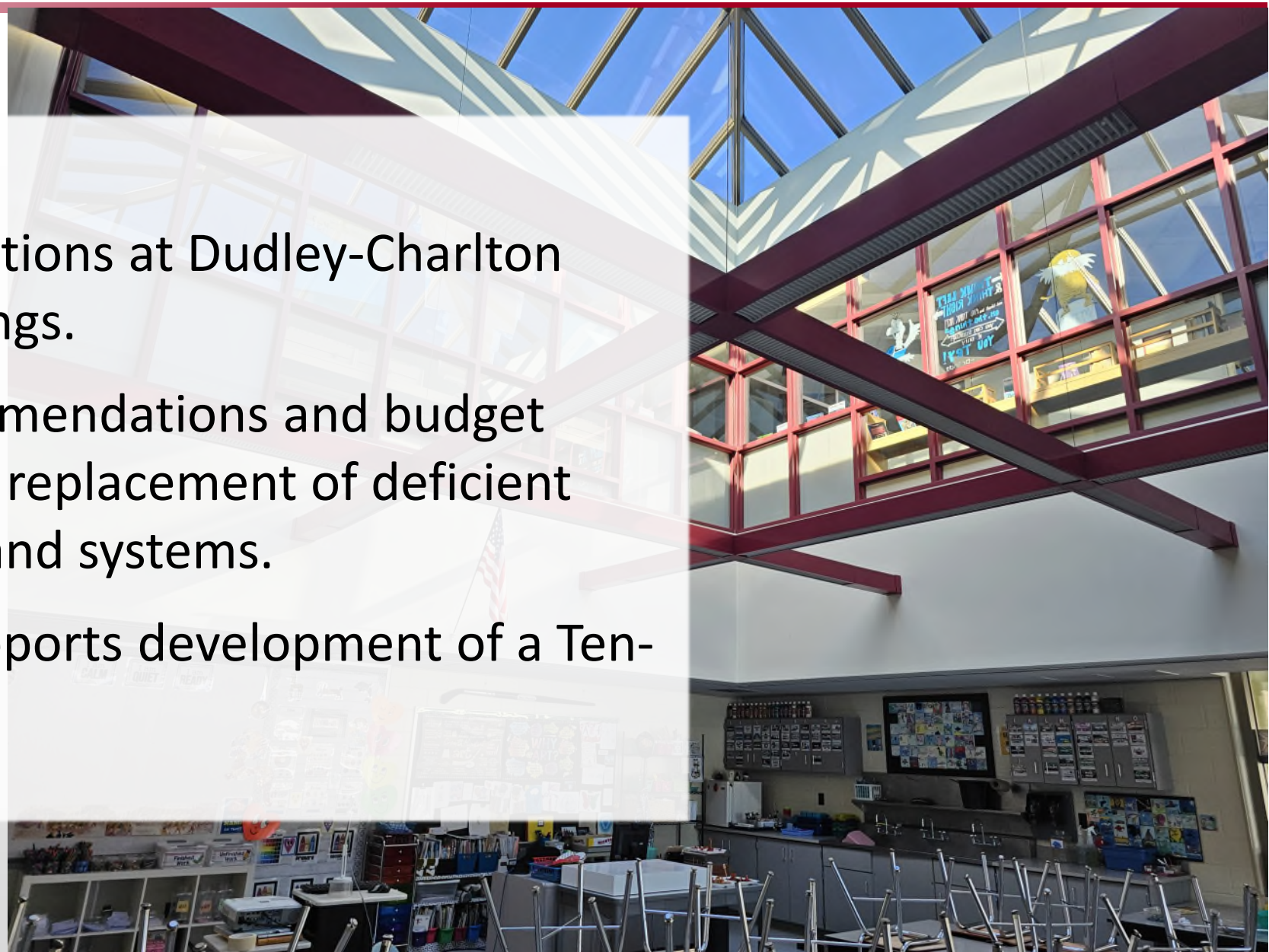
STUDENT CAPACITY ASSESSMENT

		Charlton ES PK-1			Mason Road in Dudley PK-1			Heritage School in Charlton 2-4			Dudley ES 2-4			Charlton MS 5-8			Dudley MS 5-8			Shepherd Hill Regional HS 9-12		
	Building size	54300 SF			35,955 SF			86,780 SF			86,495 SF			112,011 SF			99,118 SF			185,278 SF		
	Construction	1957 & 1987			~1962 & ~1999			1987			~1957 & 1999			1999			~1999			~1973		
	Site size	7.1 acres			28.5 acres			87.1** acres			15.1 acres			87.1** acres			90.39* acres			90.39* acres		
	Proposed classroom area equivalent (SF)	Existing	Plan	Capacity	Existing	Plan	Capacity	Existing	Plan	Capacity	Existing	Plan	Capacity	Existing	Plan	Capacity	Existing	Plan	Capacity	Existing	Plan	Capacity
Classrooms 1-8	950	17	14	280	7	4	80	34	30	600	22	18	360	51	45	1080	32	26	624			
HS Teaching Stations	750-1250																			68		1306
PK - K with toilet	1200	4		64	8		128															
Media Center	2300	1154			1365			4100			2020			5700			3380			8900		
Gym	6000	3800						4925			5200			7600			6850			14000		
Cafeteria	15 net SF per student	152			180			206			133			284			193			478		
Art Room	1200	1			1			1			1			2			1			2		
Music	1200	1			2			2						2			1			2		
Auditorium		0			1			1			1			1			1			1		
SPED Classroom	950		1			1			1			1			1			1				
SPED Room	500		1			1			2			2			3			3				
SPED Resource Rooms	250		4			4			4			4			6			6				
STEM Room	1080		0			0			1			1			0			0		2		
Science Classrooms	1440		0			0			0			0			1			1		9		
Current Enrollment		328			231			448			333			603			552			937		
Effective Operating Capacity				344			208			600			360			1080			624			1306

*Dudley Middle School & Shepherd Hill Regional High School

**Heritage School & Charlton Middle School

THE PROCESS



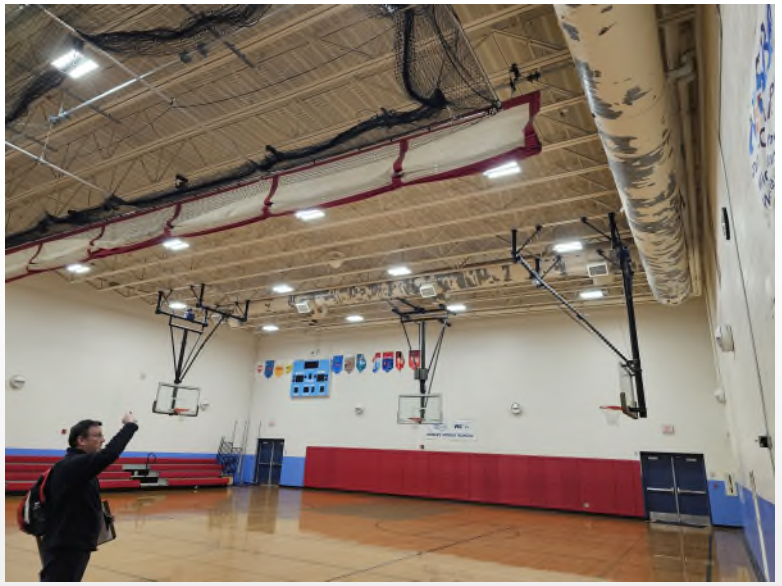
Purpose

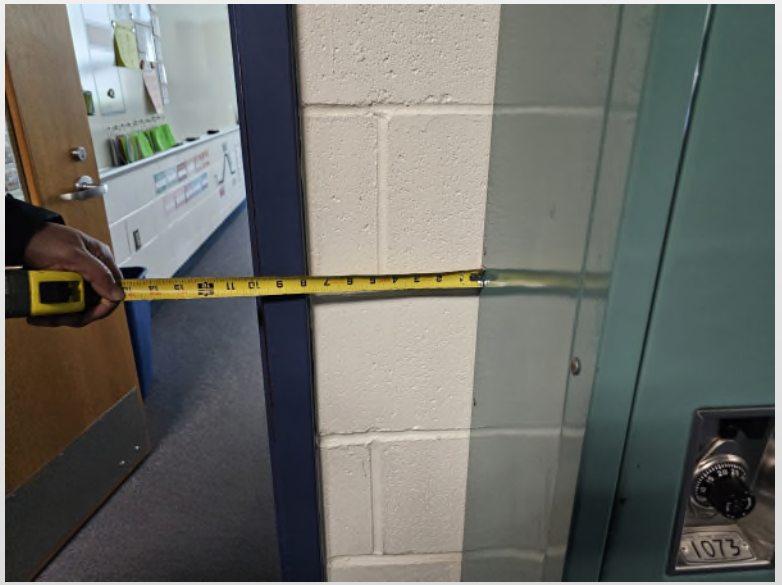
- Describe current conditions at Dudley-Charlton Regional School buildings.
- Provide priority recommendations and budget estimates for repair or replacement of deficient building components and systems.
- Cost estimate data supports development of a Ten-Year Capital Plan.

THE PROCESS

Scope

- Review concerns with the Superintendent, Facilities Director and Head Custodians.
- Observe and record current physical conditions at the schools.
- Identify deficiencies in building materials and systems that require repair or replacement.
- Describe work item and assign priority.
- Estimate quantities and assign unit costs.
- Calculate total cost/work item, including soft costs and escalation.



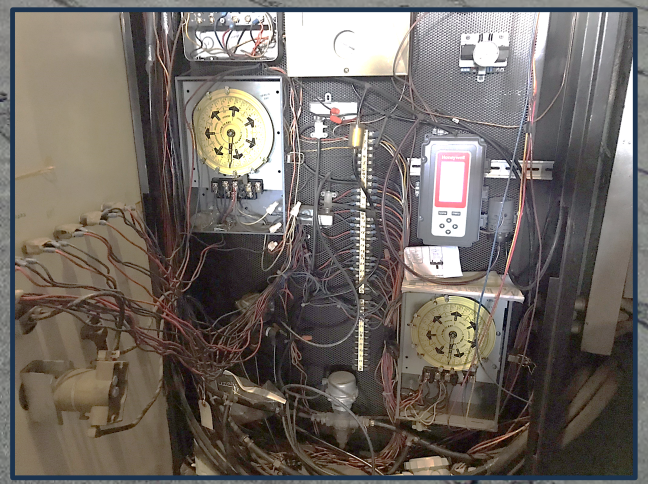


THE PROCESS

Methodology

The Assessment is based on:

- Visual inspection and observation.
- Interviews with key personnel.
- Review of available drawings.
- Review of building equipment and systems.
- Identify deficiencies related to age, useful life, life cycle costs, and learning practices.



SCOPE OF WORK CATEGORIES

Scope 1 – **Immediately Necessary/ Critical**

- Predictable deterioration
- Potential downtime
- Associated damage or higher costs if deferred further

Scope 2 – **Necessary/ Not Yet Critical**

- Sensible improvements to existing conditions that are not required for the basic function of the facility
- Overall usability improvement
- Long term maintenance cost reduction

Scope 3 – **Recommended**

- No action required at this time. However, if a substantial renovation or a substantial building addition is performed in the future, building codes may require this corrective work in addition to the work planned

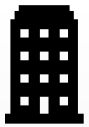
H&A ARCHITECTS

ASSESSMENT CATEGORIES



1. Site

Storm Drainage
Drives and Walks
Landscaping
Site Improvements
Play Areas
Sanitary System
Accessible Parking & Entrance Approach



2. Building Envelope

Roofs
Exterior Walls
Windows
Exterior Entrances and Doors
Thermal Insulation
Accessible Egress and Ingress
Building Structural System



3. Building Interiors

Floor Finishes
Wall Finishes
Ceiling Finishes
Interior Doors and Exit ways
Code Compliance Issues
Accessibility
Hazardous Material Remediation



4. Mechanical

Domestic Hot Water Generation
Cold Water Services
Gas Services
Piping for Plumbing Systems
Plumbing Fixtures
Heat Generation
Cooling System
Piping for Heating Systems
Temperature Controls
Ventilation
Accessible Plumbing Fixtures



5. Electrical

Main Services and Distribution
Convenience Power
Fire Alarm Systems
Lighting Systems
Emergency Lighting Systems
Communications Systems
Computer Network & Technology Systems
Site Lighting
Accessible Electrical Devices
Security System

H&A ARCHITECTS

HOW TO READ THIS ASSESSMENT

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
1. SITE										**CHARLTON ELEMENTARY SCHOOL**
1.1 Drives and Walks: Paving is cracked and showing its age. Replace bituminous paving on existing base at drives, walks, and parking lots.	**1995**	6,730	SY	55.00	370,150	481,195		481,195		481,195

Description: The *Descriptions* are the work items identified during our inspection.

Quantity: The number of items.

Unit: The *Units* are identified by a two-letter code. The unit codes are as follows:

SF – Square Foot LF – Linear Foot

SY – Square Yard LS – Lump Sum

EA – Each

Unit Cost: The *Unit Cost* is the cost of one *Quantity* of a work item.

Total: The Total column is determined by the following equation: QUANTITY x UNIT = TOTAL.

Total w/ Soft Costs: This assessment provides preliminary construction costs associated with Soft Costs.

Scope 1: 5% inflation within 2 years.

Scope 2: 4% inflation within 5 years.

Scope 3: 4% inflation within 5 years.

Inflation costs are compounded annually.

[1] Total includes Soft Costs (30%): Contingency Administration and A/E Fees.

H&A ARCHITECTS

EXECUTIVE SUMMARY

1957 Charlton Elementary School, Addition 1987	54,300 SF
1957 Dudley Elementary School, Addition 1995	86,495 SF
1962 Mason Road, Addition 1999	35,955 SF
1989 Heritage School	86,780 SF
1999 Charlton Middle School	204,203 SF
1999 Dudley Middle School	99,118 SF
1973 Shepherd Hill Regional High School	185,278 SF



H&A ARCHITECTS

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H&A ARCHITECTS

EXECUTIVE SUMMARY

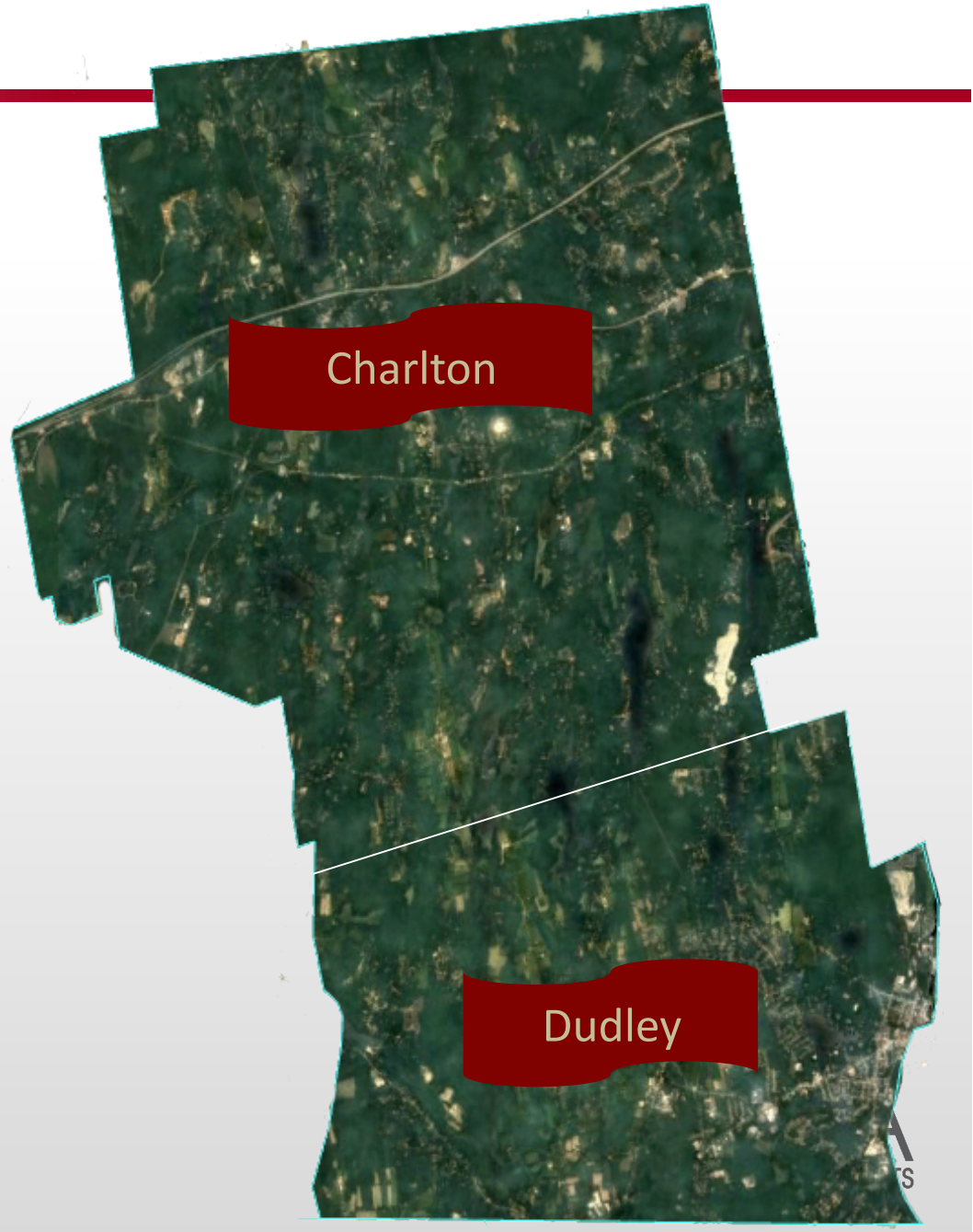
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H&A ARCHITECTS

EXECUTIVE SUMMARY

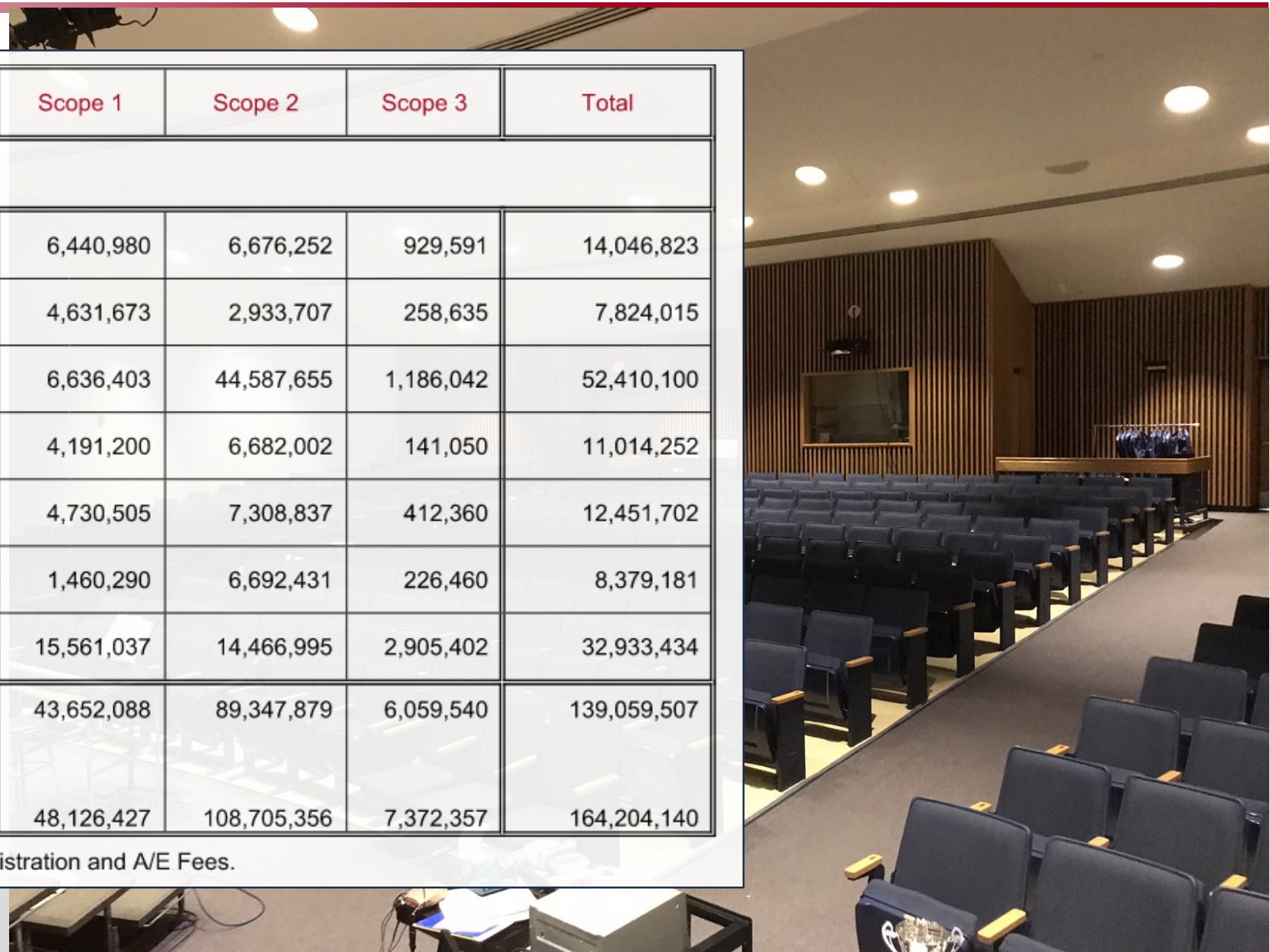
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1962 Mason Road, Addition 1999	35,955 SF
1989 Heritage School	86,780 SF
1999 Charlton Middle School	204,203 SF
1999 Dudley Middle School	99,118 SF
1973 Shepherd Hill Regional High School	185,278 SF
Total Area:	752,129 SF



EXECUTIVE SUMMARY

Category	Scope 1	Scope 2	Scope 3	Total
Executive Summary				
1. CHARLTON ELEMENTARY SCHOOL	6,440,980	6,676,252	929,591	14,046,823
2. MASON ROAD SCHOOL	4,631,673	2,933,707	258,635	7,824,015
3. HERITAGE SCHOOL	6,636,403	44,587,655	1,186,042	52,410,100
4. DUDLEY ELEMENTARY SCHOOL	4,191,200	6,682,002	141,050	11,014,252
5. CHARTON MIDDLE SCHOOL	4,730,505	7,308,837	412,360	12,451,702
6. DUDLEY MIDDLE SCHOOL	1,460,290	6,692,431	226,460	8,379,181
7. SHEPHERD HILL REGIONAL HIGH SCHOOL	15,561,037	14,466,995	2,905,402	32,933,434
Total:	43,652,088	89,347,879	6,059,540	139,059,507
[1] Total Inflated @ 5% for Scope 1, 4% for Scopes 2-3 and Compounded Annually	48,126,427	108,705,356	7,372,357	164,204,140

[1]Totals include Soft Costs (30%): Contingency, Administration and A/E Fees.



ASSESSMENT

General:

- Schools well maintained.
- Deficiencies and Deterioration due to age.







Site:

- Pavements, Walkways, Curbs

Envelope:

- Roofs, Masonry Walls, Windows

Interiors:

- Predictable Deterioration, Carpets, Ceiling Tiles, Accessible Elements

H&A ARCHITECTS

ASSESSMENT

Mechanical Systems:

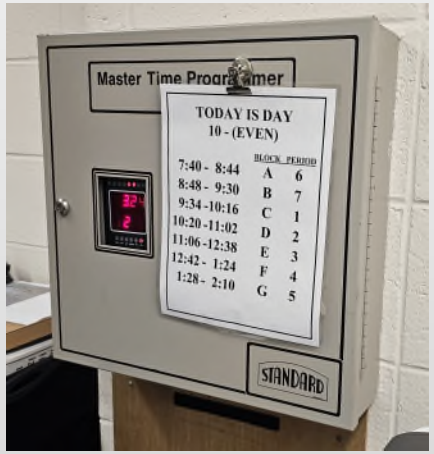
- Charlton Elementary & Shepherd Hill Not Sprinklered
- Fire Pumps
- HVAC Equipment Beyond Useful Service Life
- Obsolete Pneumatic HVAC Control Systems
- Bathroom Fixtures Not Accessible
- Aging Piping and Sanitary Drains

Electrical Systems :

- Standby Generators
- VOIP Phone
- Paging/Timeclock Systems
- Security System Upgrade
- LED Lighting Upgrade
- Data Systems Up To Date





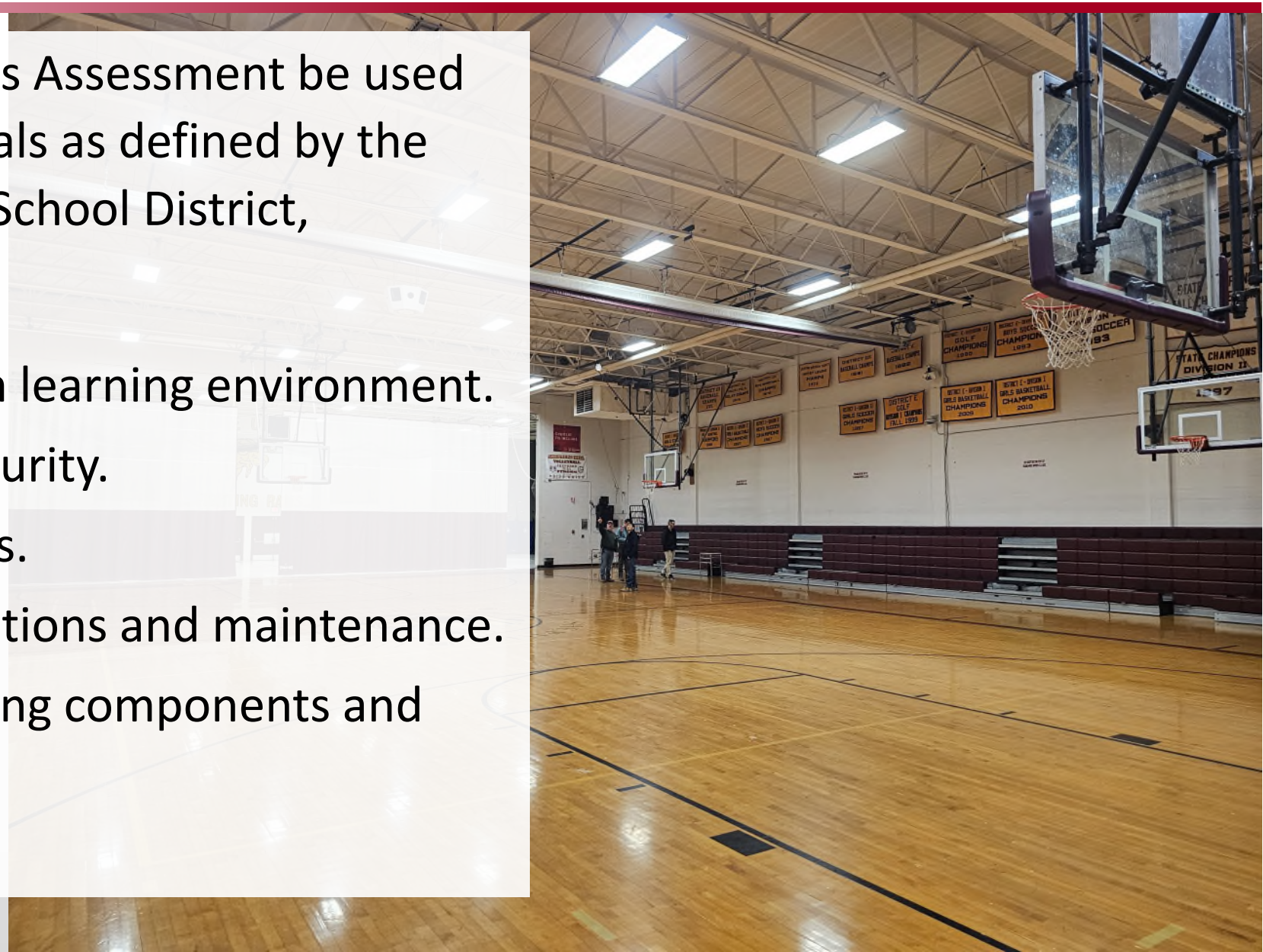


H&A ARCHITECTS

CONCLUSION

It is recommended that this Assessment be used to support the facilities goals as defined by the Dudley-Charlton Regional School District, including:

- Optimize the classroom learning environment.
- Enhance safety and security.
- Decrease life cycle costs.
- Improve ongoing operations and maintenance.
- Replace obsolete building components and systems.
- Reduce energy costs.











Thank You!

Questions?

H&A ARCHITECTS

HABEEB & ASSOCIATES
ARCHITECTS

FACILITIES CONDITION ASSESSMENT AND STUDENT CAPACITY REPORT

DUDLEY-CHARLTON REGIONAL SCHOOL DISTRICT

68 Dudley-Oxford Road, Dudley, MA 01571

Charlton Elementary School
9 Burlingame Road, Charlton, MA 01507

Heritage School
34 Oxford Road, Charlton, MA 01507

Charlton Middle School
2 Oxford Road, Charlton, MA 01507

Mason Road School
20 Mason Road, Dudley, MA 01571

Dudley Elementary School
16 School Street, Dudley, MA 01571

Dudley Middle School
70 Dudley-Oxford Road, Dudley, MA 01571

Shepherd Hill Regional High School
68 Dudley-Oxford Road, Dudley, MA 01571

FINAL REPORT: May 30, 2024
H&A JN 2327.01

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- Existing School Capacity Chart 12
- Space Utilization Plans 14

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- Mason Road School 46
- Heritage School 64
- Dudley Elementary School 82
- Charlton Middle School 98
- Dudley Middle School 116
- Shepherd Hill Regional High School 134

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Dudley-Charlton Regional School District

Superintendent of Schools

Steven Lamarche

Facilities Director

Joseph Caron

Head Custodians

Scott Cushing, Charlton Elementary School

Craig Smith, Mason Road

Christopher Tittle, Heritage School

Wayne Tower, Dudley Elementary School

James Rivera, Charlton Middle School

Mark Andre, Dudley Middle School

Gregory Duval, Shepherd Hill Regional High School

Architectural Consultant

Habeeb & Associates Architects

100 Grove Street, Suite 303, Worcester,

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Kevin Provencher, AIA, LEED AP BD+C

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Description of Scope

Habeeb & Associates Architects conducted a Facilities Condition Assessment and prepared a Student Capacity Report for the Dudley-Charlton Regional School District at the following schools:

- Charlton Elementary School
- Mason Road School
- Heritage School
- Dudley Elementary School
- Charlton Middle School
- Dudley Middle School
- Shepherd Hill Regional High School



Student Capacity Report

A Space Needs Assessment was prepared for analysis of current space utilization to determine student capacities at each school. Available spaces and class sizes were compared with educational program needs using the Massachusetts School Building Authority (MSBA) Space Standard Guidelines.

Facilities Condition Assessment

The Facilities Condition Assessment was developed to address the physical structure and mechanical, electrical, plumbing, fire protection and sewage disposal systems of the schools and surrounding site areas. This Assessment describes current conditions and provides priority recommendations and budget estimates for repair or replacement of deficient building components and systems that shall be used for short and long-term capital planning. It is recommended that this Assessment be used in context with the facilities goals as defined by the Dudley-Charlton Regional School District for the development of a 10-year Capital Improvement Plan.

Methodology

The Facilities Condition Assessment is based upon visual inspection, review of available drawings and documents, plus interviews with facilities personnel. Habeeb & Associates Architects conducted interviews with Joseph Caron, Facilities Director and the Head Custodian at each school during the week of February 19, 2024 followed by a tour of the facility. Existing deficiencies and concerns were observed, noted, and photographed by the design team.

Deficiencies observed were related to age of building systems and components, usage, code requirements and improvements recommended to provide an environment suitable for 21st Century learning practices. The worksheets and photographs included in the Facilities Condition Assessment detail the recommendations and associated costs for addressing the deficiencies identified. Estimated costs for projects to be completed in future years contain escalation factors to account for inflation.

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This Executive Summary categorizes the recommended capital improvements at the seven schools which encompass the Dudley-Charlton Regional School District, including the school buildings and surrounding site elements. In the aggregate, the schools total more than 750,000 square feet in area and represent varying levels of deficiencies and deterioration. Charlton Elementary and Dudley Elementary Schools are the oldest schools in the district, both dating to 1957. Additions were built at Charlton Elementary and Dudley Elementary in 1987 and 1999, respectively. Mason Road is the next oldest, constructed in 1962 with an addition in 1999. Charlton Middle, the largest school in the district is over 200,000 square feet and was constructed in 1999 along with Dudley Middle School. Shepherd Hill Regional High School, the second largest school in the district with over 185,000 square feet, was completed in 1973.

This Summary categorizes the recommended capital improvements for the School District based on staff interviews, field observations and review of available documents. Work Items identified by this Assessment are assigned a Scope category based on urgency, ongoing maintenance, life-cycle costs, and other concerns that compromise the learning environment. In summary, scopes are categorized by the following descriptions:

- Scope 1 – Immediately Necessary/ Critical
- Scope 2 – Necessary/ Not Yet Critical (2-5 years)
- Scope 3 – Recommended (6-10 years)

Refer to Section 5, How to Read This Assessment for detailed Scope descriptions and calculation methodology.

In general, all schools are well maintained by the custodial and facilities staff. The Head Custodians and Facilities Director were very knowledgeable about building history and ongoing issues. Many items of concern are being addressed or are in process, such as pavement replacement at the Heritage School, water tank replacement at the Dudley Middle School and fire alarm upgrades at multiple schools.

All schools have some need for repair or replacement of pavements, walkways and curbs which will continue to deteriorate and should be addressed for pedestrian safety. Most schools in the district have similar needs for building envelope work to address deteriorating masonry walls and leaking roofs. Building interiors have predictable interior finish deterioration, including carpets and sagging acoustic tile ceilings. Many ceilings are stained from ongoing roof leaks.



The older schools lack accessible features in the original buildings, primarily toilet rooms, and classroom sinks. Charlton Elementary and Shepherd Hill lack fire sprinkler systems, which would need to be installed with a major renovation project. Older mechanical system equipment is beyond expected useful service life and should be considered for replacement to address ongoing maintenance, life cycle cost and energy use. Replacement parts and knowledgeable service technicians are increasingly unavailable for obsolete pneumatic control systems. All schools can benefit by replacing multiple independent mechanical control systems with an integrated energy management system.

Updated VOIP phone, paging/timeclock, and security systems are recommended for all schools. Schools that still use fluorescent lighting can benefit from the energy and maintenance cost savings from upgrading to LED lighting and controls. Fire alarm systems and emergency egress lighting are generally up to date or are in the process of being upgraded. Critical life safety equipment including standby generators and fire pumps should be considered for replacement when approaching the end of useful service life. No issues were identified with data systems which are up to date in all schools.

Category	Scope 1	Scope 2	Scope 3	Total
Executive Summary				
1. CHARLTON ELEMENTARY SCHOOL	6,440,980	6,676,252	929,591	14,046,823
2. MASON ROAD SCHOOL	4,631,673	2,933,707	258,635	7,824,015
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[1] Total Inflated @ 5% for Scope 1, 4% for Scopes 2-3 and Compounded Annually	48,126,427	108,705,356	7,372,357	164,204,140

[1]Totals include Soft Costs (30%): Contingency, Administration and A/E Fees.

The Heritage school requires the most work among the seven schools in the district. Approximately $52.4m of work is estimated, primarily because of the deteriorating exterior walls and water infiltration issues. The concrete block masonry walls were reported to be built without an integral water repellant as specified, which has contributed to excessive moisture infiltration and freeze/thaw damage. The metal roofing is also failing and should be replaced. The boilers, cooling tower and water-source heat pumps are also failing and are beyond useful service life.

Shepherd Hill Regional High School is over 50 years old and requires approximately $33m in updates. The assessment team noted the brick masonry and interior surfaces were in remarkably good condition for a building of this age with such heavy use. Shepherd Hill has no sprinkler system, and the membrane roofing needs replacement. Most of the mechanical system is original equipment with obsolete pneumatic controls, including the boilers and classroom unit ventilators. Copper piping and sanitary drain lines are expected to start failing in a building of this age and should be considered for replacement if a major renovation is planned. The school requires renovations for accessibility throughout, including toilet rooms, classroom sinks and elevator upgrades. Electrical switchgear and distribution panels are original Federal Pacific equipment. These panels are a known fire hazard and should be replaced.



Charlton and Dudley Elementary Schools are the oldest schools in the district, both constructed in 1957 with additions in 1988 and 1999, respectively. Due to predictable age deterioration, both schools need a significant amount of work, primarily the building envelope, mechanical and electrical systems. Charlton Elementary lacks a sprinkler system and has much of the original 1957 equipment including the classroom unit ventilators and copper piping. Estimated costs to address deficiencies are $14m at Charlton Elementary and $11m at Dudley Elementary.

Charlton Middle School and Dudley Middle School were built at the same time in 1999 with similar design features. Heavily deteriorated drives, walkways and curbing were noted along with surface drainage issues in the parking lot at Charlton Middle. A lack of positive drainage in the outdoor courtyard at Charlton Middle appears to be contributing to interior water infiltration resulting in delaminated floor tile. Ongoing water infiltration during driving rain was noted at the second-floor level at both schools. Carpet is worn and should be replaced in all areas. Several issues were identified at the pump houses including inadequate fire pump pressure and a failing water storage tank at Charlton Middle. An obsolete fire pump control panel and water pumps at risk of imminent failure were reported at Dudley Middle. Both schools have roof mounted air-cooled condensing units which are failing due to prolonged weather exposure. Boilers are approaching the end of useful service life and should be planned for replacement. Estimated costs to address deficiencies are $12.5m at Charlton Middle and $8.4m at Dudley Middle.

Mason Road Elementary is the smallest and second oldest school in the district, constructed in 1962. The building envelope requires the most attention, including a complete membrane roof replacement. Exterior sealants, weatherstripping and failed glazing units need replacement similar to other schools. Most of the acoustic tile ceiling is stained from roof leaks and sagging. The carpet is worn and should be replaced in all areas. Corrosion causing leaking copper piping was noted and needs to be monitored for replacement as needed.

With rising inflation, wage rates and cost escalation, prolonged deterioration from deferred maintenance becomes more costly over time. Building materials damaged by water infiltration and freeze-thaw cycles that are not replaced will continue to deteriorate indefinitely until complete failure occurs. Health and safety should always be given top priority by addressing potential tripping hazards at exterior areas and floor surfaces and by maintaining ventilation and life safety systems. Fire pumps, water tanks and associated components of sprinkler systems should always be inspected and in good working order. Accessible site and building elements should be provided where non-compliant elements are noted. Finally, planning for replacement of mechanical equipment and control systems beyond or approaching the end of useful service life should be considered along with replacement of fluorescent lighting with energy efficient LED and obsolete communication and security systems.



In meetings with the Dudley-Charlton Regional School District (DCRSD), it was determined that a set of space criteria would be established to provide for consistency and parity among the elementary schools. Habeeb & Associates Architects utilized the Massachusetts School Building Authority (MSBA) Space Standard Guidelines to establish standard sizes for all educational and support spaces. The quantities for all educational space types were determined by using projected enrollment numbers and program space needs identified by Dudley Charlton Regional School District. It was determined that each school should have sufficient classrooms to realize the following targets for optimal and equitable class size:

- Grade PK-K: approximately 16 students or less per classroom
- Grade 1-4: approximately 20 students per classroom
- Grades 5-8: approximately 24 students per classroom
- Grades 9-12: approximately 24 students per classroom



To achieve class size targets for a maximum enrollment of 559 students in pre-kindergarten through first grade (97 pre-kindergarten students, 261 students in kindergarten plus 201 students in grade 1), DCRSD Schools require 22-24 classrooms for pre-kindergarten - kindergarten and 10-12 classrooms for grade 1. The Middle Schools, grades 5-8, with a maximum enrollment of 1,155 students require 48-51 classrooms. Shepherd Hill Regional High School has ample capacity to accommodate future enrollments with a maximum student enrollment of 1,306 students.

It was determined that each elementary school should have a gymnasium, cafeteria, library/media center. One classroom in each building should be provided for Art, Music with instrumental practice spaces, and a STEM Room equipped with a sink.

Dudley-Charlton Regional School District identified the following space needs for Student Support Services:

Elementary Schools (PK-1): Charlton Elementary, Mason Road Schools

- Self-Contained SPED: 1 per designated school @ 950 sf
- Special Education Room: 1 per school @ 500 sf
- SPED Resource Rooms: 4 per school @ 250 sf ea.

Elementary Schools (2-4): Dudley Elementary and Heritage Schools

- Self-Contained SPED: 1 per designated school @ 950 sf
- Special Education Room: 2 per school @ 500 sf ea.
- SPED Resource Rooms: 4 per school @ 250 sf ea.
- STEM Room: 1 per school @ 1080 sf

Middle Schools (5-8): Charlton Middle and Dudley Middle Schools

- Self-Contained SPED: 1 per designated school @ 950 sf
- Special Education Room: 6 per school @ 500 sf ea.
- Science Classroom: 1 per school @ 1440 sf

High School (9-12): Shepherd Hill Regional High School

- STEM Room: 2 per school @ 1080 sf ea.
- Science Classroom: 9 per school @ 1440 sf ea.

EXISTING SCHOOL CAPACITY CHART

The following chart is an evaluation of each of the seven schools' capacities based upon the Educational Space Program Outline, MSBA Space Standard Guidelines for education facilities, and the enrollment data as of Fall 2023.

Class Size per MSBA Guidelines

- Pre-kindergarten-Kindergarten = 16 students
- Elementary School Classroom = 20 students
- Middle School Classroom = 24 students
- High School Classroom = 24 students. Capacity determined by 80% utilization of teaching stations. (teaching stations x 24)(0.8) = Effective Operating Capacity

Legend

Space is inadequate

This group removes 3 classrooms from existing total

This group removes 4 classrooms from existing total

This group removes 6 classrooms from existing total

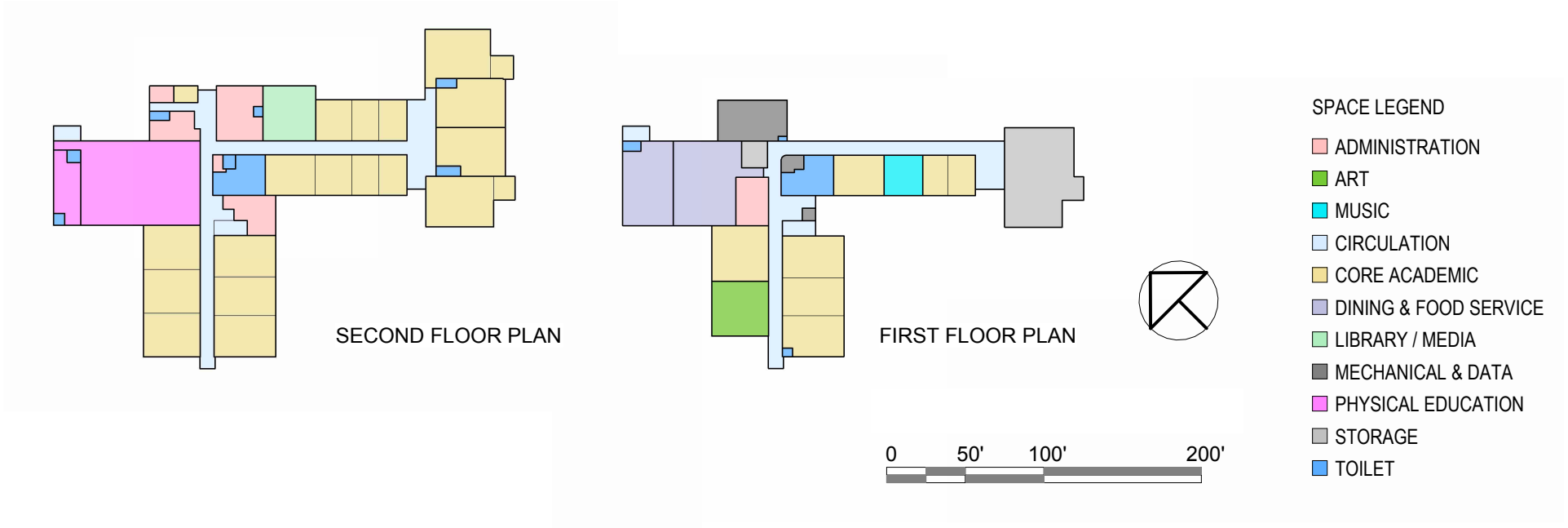
		Charlton ES PK-1			Mason Road in Dudley PK-1			Heritage School in Charlton 2-4			Dudley ES 2-4			Charlton MS 5-8			Dudley MS 5-8			Shepherd Hill Regional HS 9-12		
	Building size	54300 SF			35,955 SF			86,780 SF			86,495 SF			112,011 SF			99,118 SF			185,278 SF		
	Construction	1957 & 1987			~1962 & ~1999			1987			~1957 & 1999			1999			~1999			~1973		
	Site size	7.1 acres			28.5 acres			87.1** acres			15.1 acres			87.1** acres			90.39* acres			90.39* acres		
	Proposed classroom area equivalent (SF)	Existing	Plan	Capacity	Existing	Plan	Capacity	Existing	Plan	Capacity	Existing	Plan	Capacity	Existing	Plan	Capacity	Existing	Plan	Capacity	Existing	Plan	Capacity
Classrooms 1-8	950	17	14	280	7	4	80	34	30	600	22	18	360	51	45	1080	32	26	624			
HS Teaching Stations	750-1250																			68		1306
PK - K with toilet	1200	4		64	8		128															
Media Center	2300	1154			1365			4100			2020			5700			3380			8900		
Gym	6000	3800						4925			5200			7600			6850			14000		
Cafeteria	15 net SF per student	152			180			206			133			284			193			478		
Art Room	1200	1			1			1			1			2			1			2		
Music	1200	1			2			2						2			1			2		
Auditorium		0			1			1			1			1			1			1		
SPED Classroom	950		1			1			1			1			1			1				
SPED Room	500		1			1			2			2			3			3				
SPED Resource Rooms	250		4			4			4			4			6			6				
STEM Room	1080		0			0			1			1			0			0		2		
Science Classrooms	1440		0			0			0			0			1			1		9		
Current Enrollment		328			231			448			333			603			552			937		
Effective Operating Capacity				344			208			600			360			1080			624			1306

*Dudley Middle School & Shepherd Hill Regional High School

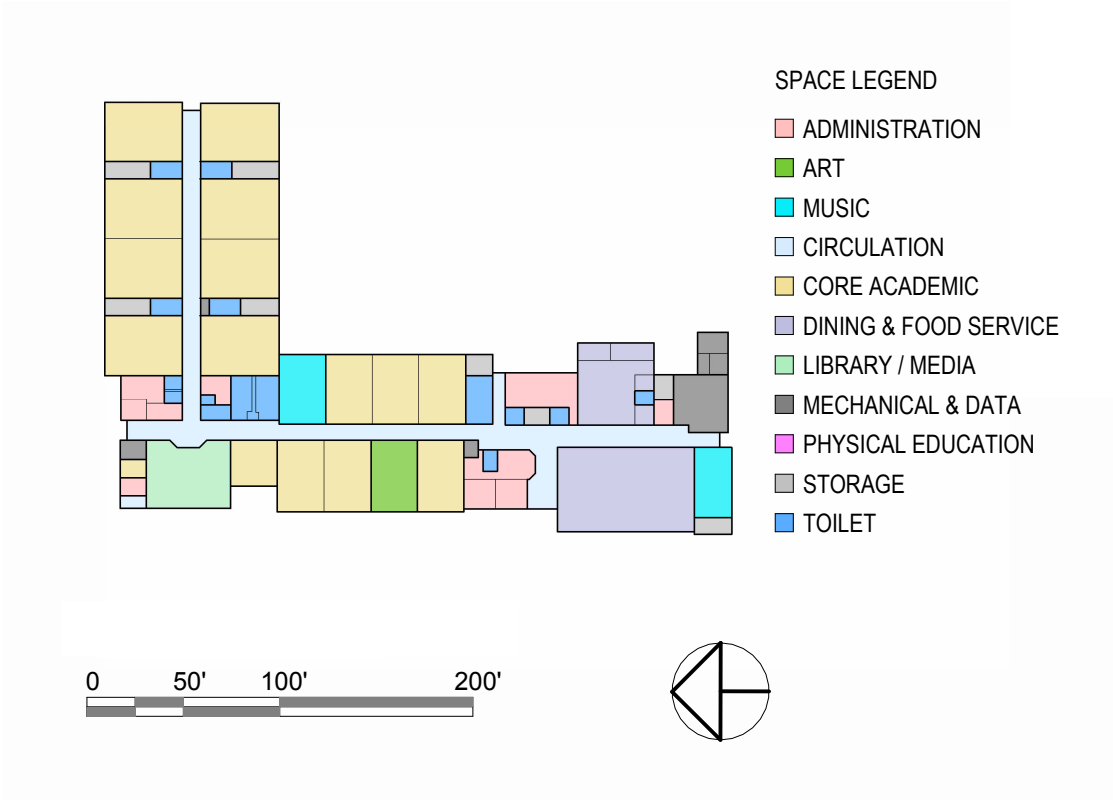
**Heritage School & Charlton Middle School

SPACE UTILIZATION PLANS

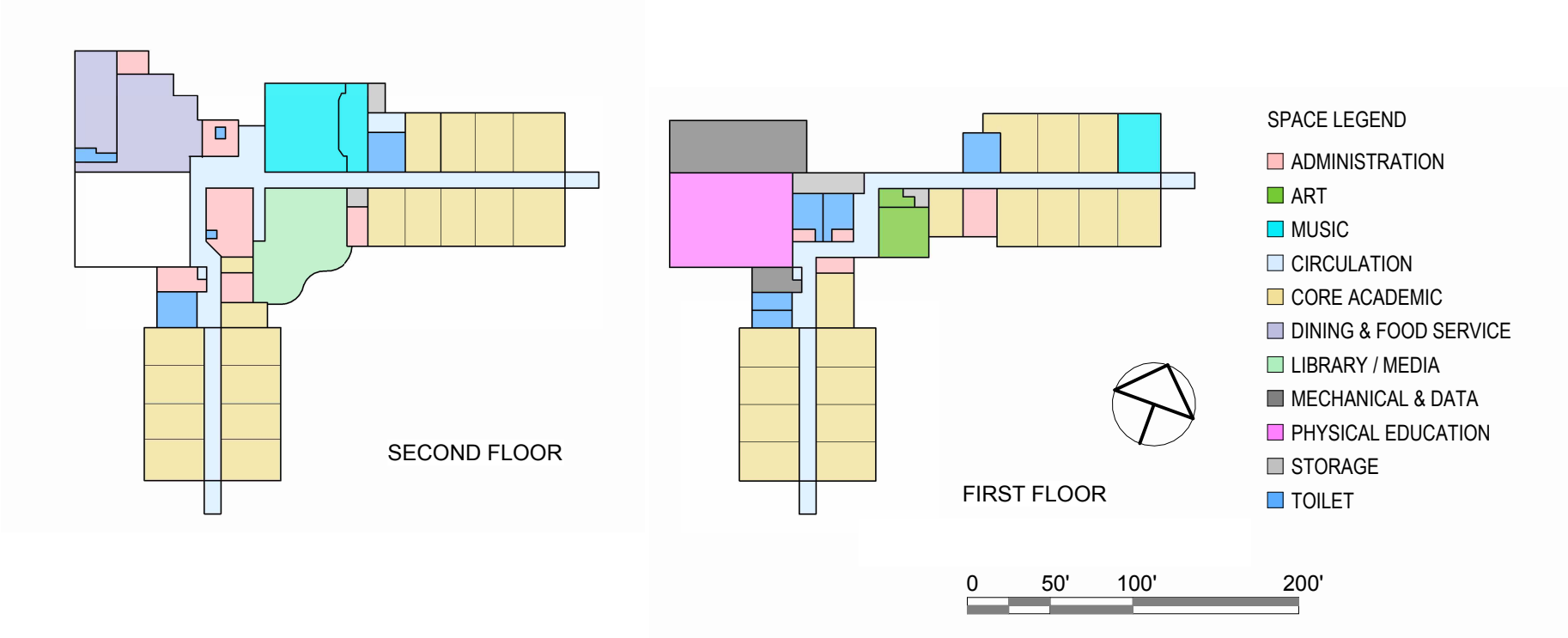
CHARLTON ELEMENTARY SCHOOL



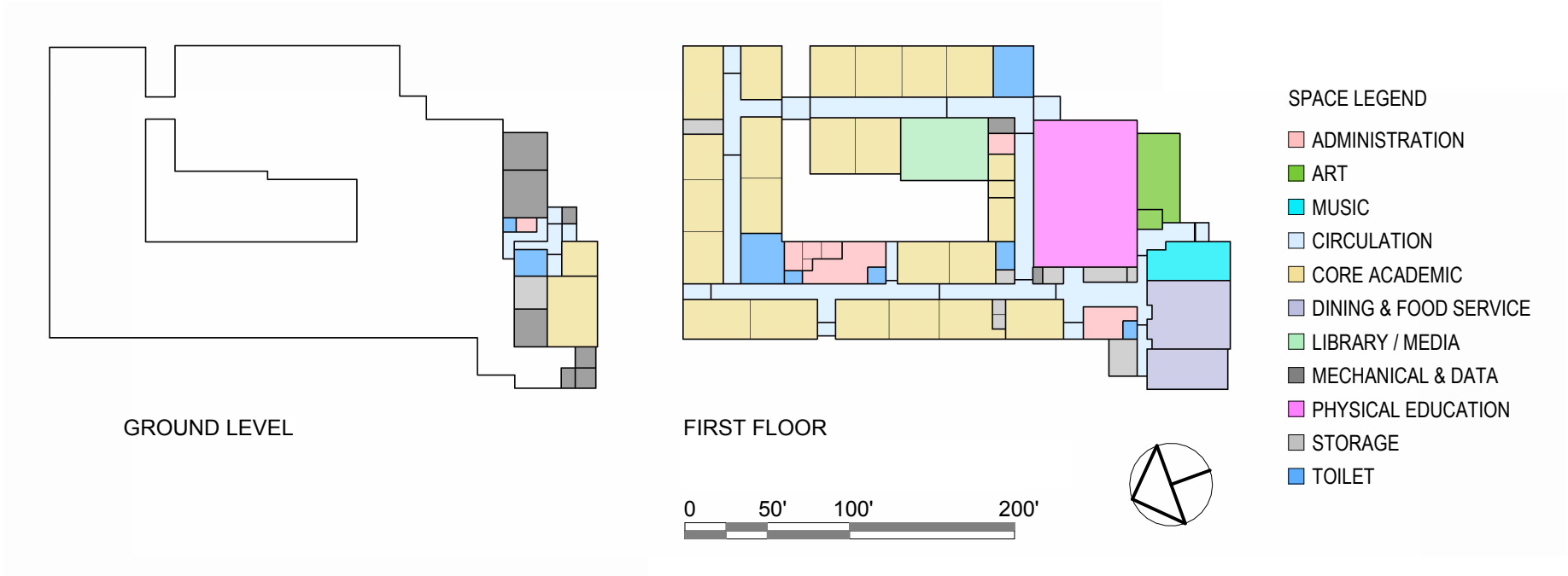
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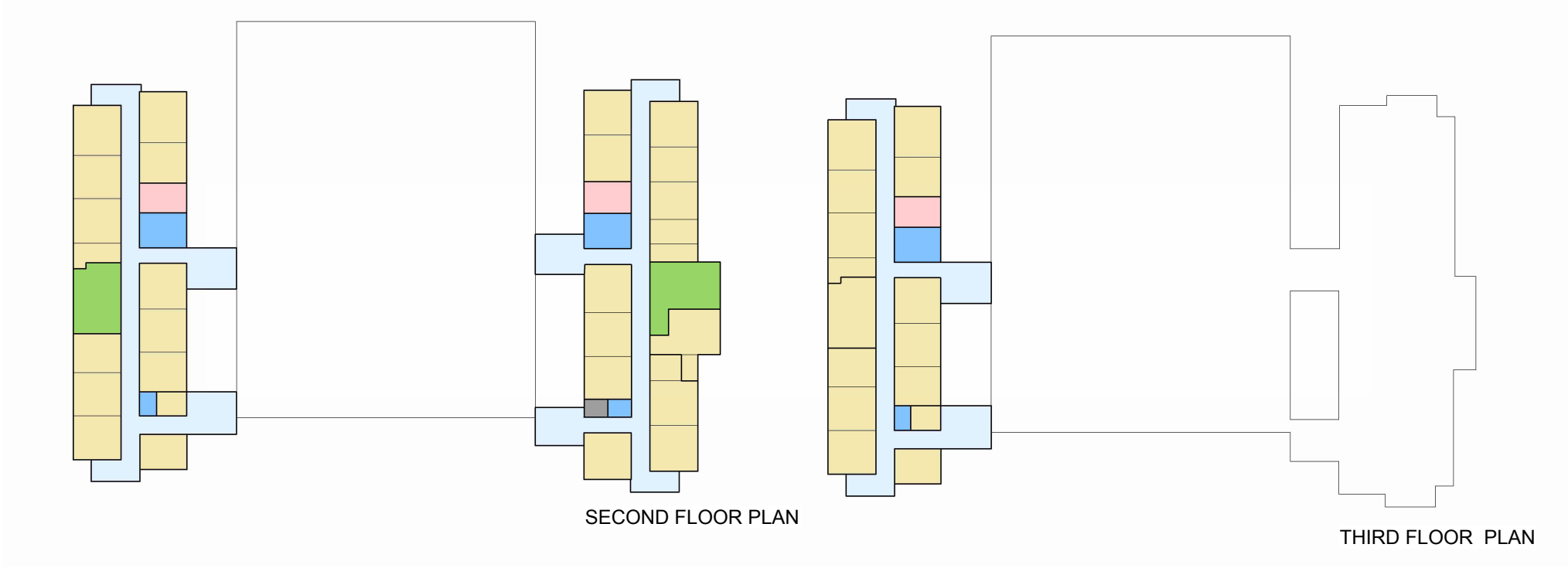
HERITAGE SCHOOL



DUDLEY ELEMENTARY SCHOOL

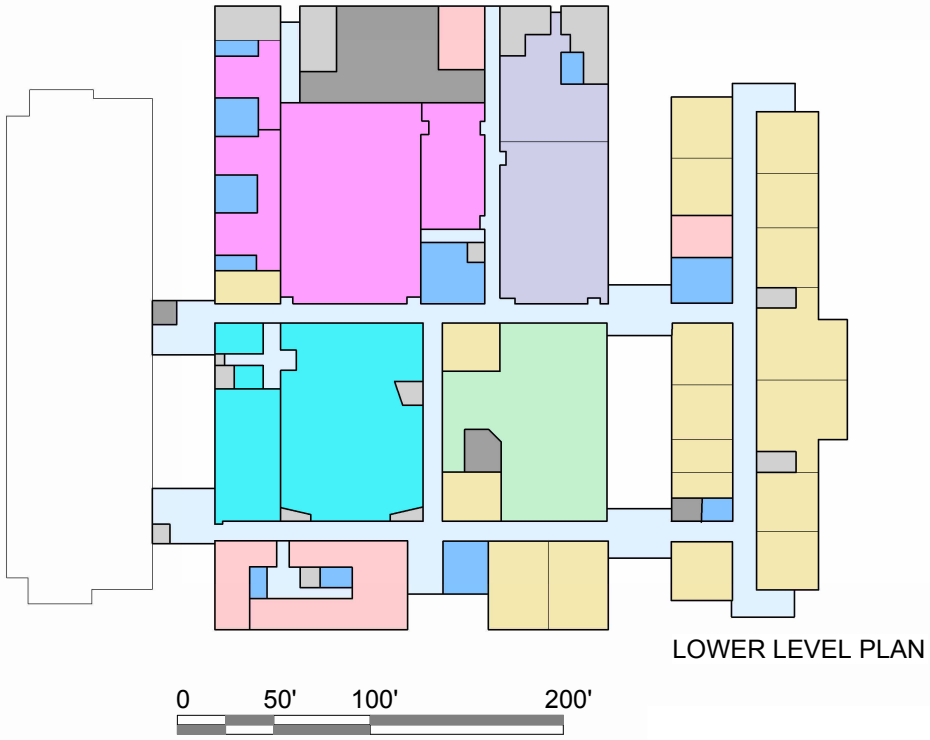


CHARLTON MIDDLE SCHOOL



SECOND FLOOR PLAN

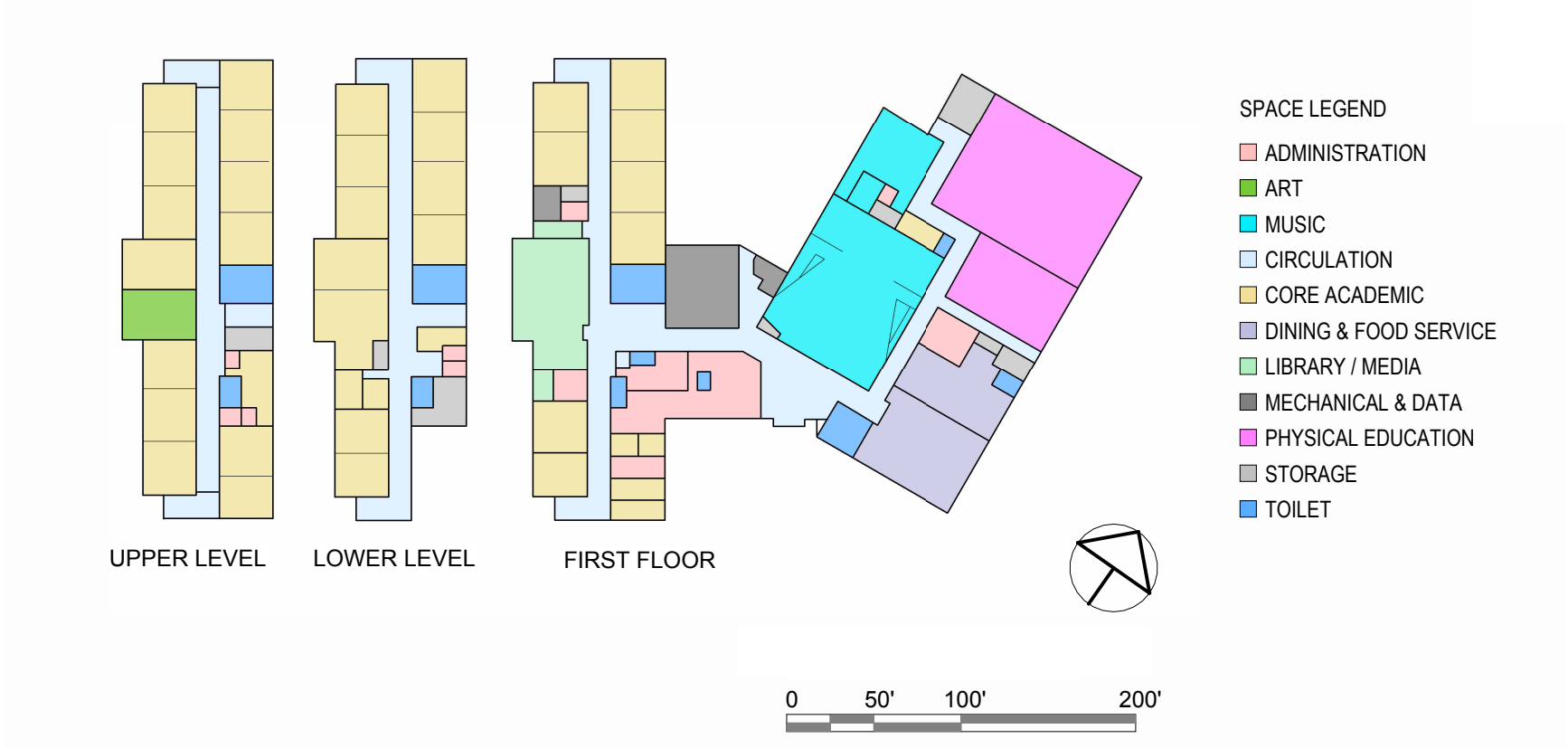
THIRD FLOOR PLAN



SPACE LEGEND

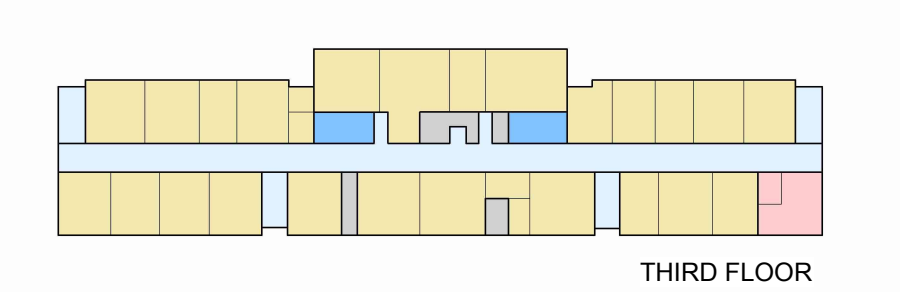
- ADMINISTRATION
- ART
- MUSIC
- CIRCULATION
- CORE ACADEMIC
- DINING & FOOD SERVICE
- LIBRARY / MEDIA
- MECHANICAL & DATA
- PHYSICAL EDUCATION
- STORAGE
- TOILET

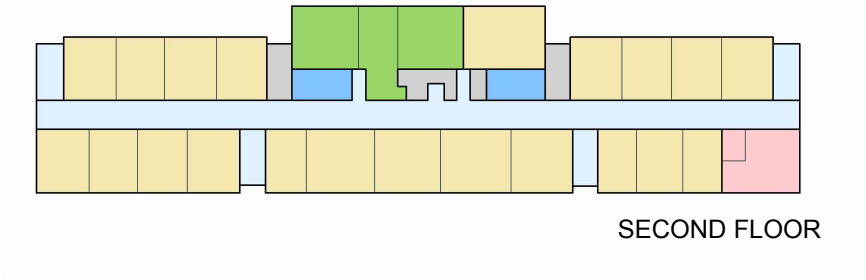
DUDLEY MIDDLE SCHOOL

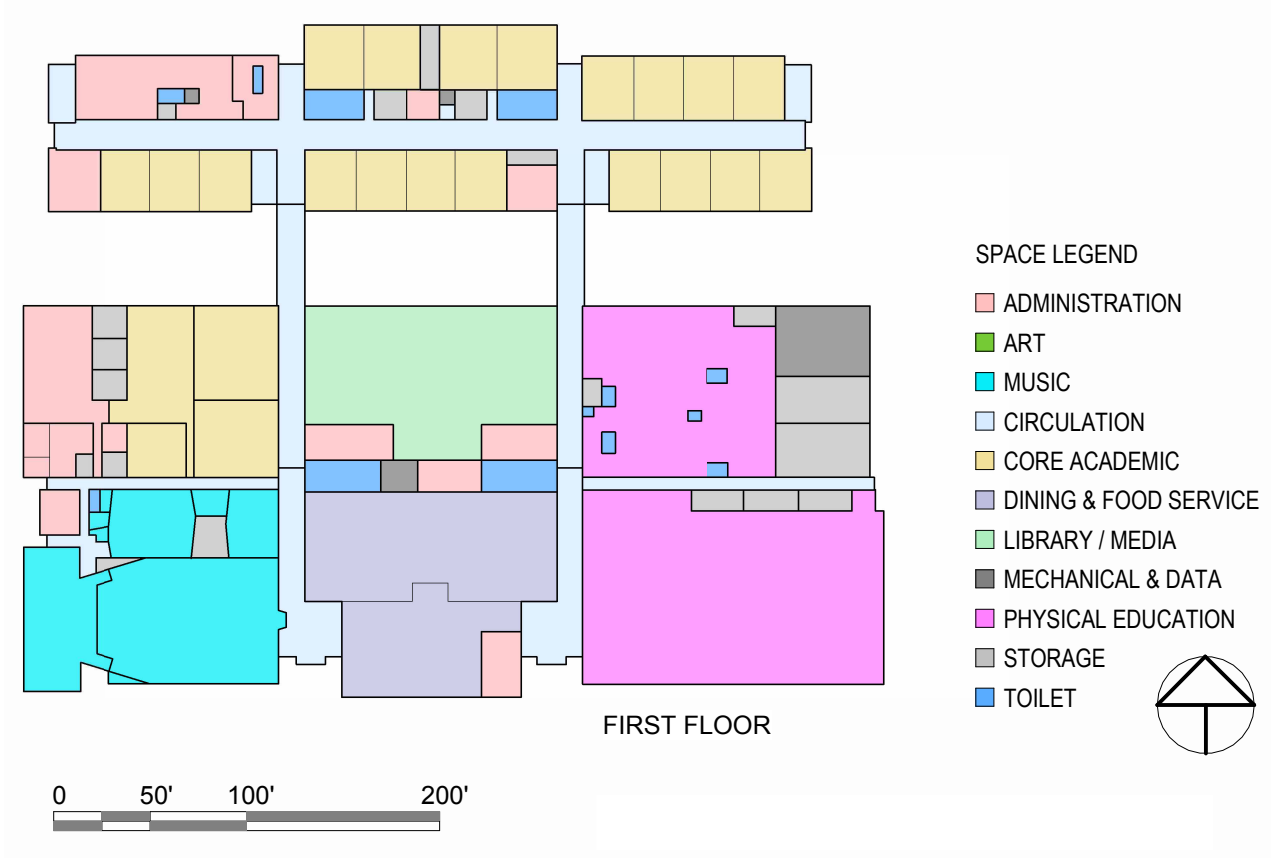


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SHEPHERD HILL REGIONAL HIGH SCHOOL






SPACE LEGEND
ADMINISTRATION
ART
MUSIC
CIRCULATION
CORE ACADEMIC
DINING & FOOD SERVICE
LIBRARY / MEDIA
MECHANICAL & DATA
PHYSICAL EDUCATION
STORAGE
TOILET
FIRST FLOOR
0
50'
100'
200'

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HOW TO READ THIS ASSESSMENT

EXECUTIVE SUMMARY

The *Executive Summary* recaps the *Total Inflated* row from the bottom of the Building Summary sheets. These costs are then totaled at the bottom to indicate a combined proposed capital expenditure per scope. This is intended to make it easier for the reader to review and compare the overall costs for each of the scopes.

SUMMARY

The *Summary* recaps the *Total* row from the bottom of each category for the subject building, separated into scopes. This is intended to make it easier for the reader to review and compare the overall costs for each of the categories together with the scopes for the subject building.

FACILITY CONDITION ASSESSMENT

The following is a list and brief description of the column and row headings of the Capital Asset Assessment sheets.

Description

The *Descriptions* are the work items identified during our inspection. They usually consist of the building component and its deficiencies; and a recommendation for correcting the deficiency.

Quantity

The number of items: (For example, if the work item is for ”unit ventilators replacement” the building in question may have a *Quantity* of 60 unit ventilators to be replaced).

Unit

The *Units* are identified by a two-letter code. The unit codes are as follows:

- SF – Square Foot
- SY – Square Yard
- LF – Linear Foot
- LS – Lump Sum
- EA – Each.

Unit Cost

The *Unit Cost* is the cost of one *Quantity* of a work item. Unit costs are preliminary construction cost estimates only and are generally based on the following references: *Means Square Foot Cost Data; Means Construction Costs Data*; in house cost data; professional experience; and information provided by various contractors and suppliers.

Total

The *Total* column is determined by the following equation: QUANTITY x UNIT = TOTAL.

Total with Soft Costs

This assessment provides preliminary construction costs associated with *Soft Costs*. *Soft Costs* generally include a contingency, (typically 10% to 15%) for unforeseen conditions; indirect administrative expenses such as legal costs, printing and advertising (typically 5% to 10%); and architectural and engineering costs (typically 10% to 15%) for a total soft cost estimate. We used a *Soft Cost* of 30% of the *total* cost in this assessment. The *Total with Soft Costs* is determined by the following equation: TOTAL x 1.30 = TOTAL W/ SOFT COST.

Some projects may require higher or lower *Soft Costs* depending on the type and extent of project selected. Work items listed are provided as a guide to develop repair and renovation projects with preliminary construction cost estimates. The actual scope of a project could include a combination of work items, i.e. new ceilings and new lighting. Some other projects may require finishes, e.g. painting, which may not necessarily be broken out for that project.

Scope 1 – Necessary/Not Yet Critical

- Predictable deterioration
- Potential downtime
- Associated damage or higher costs if deferred further

Scope 2 – Recommended

- Sensible improvements to existing conditions that are not required for the basic function of the facility
- Overall usability improvement
- Long term maintenance cost reduction

Scope 3 – Does Not Meet Current Codes for new construction but “Grandfathered”

- No action required at this time. However, if a substantial renovation or a substantial building addition is performed in the future, building codes may require this corrective work in addition to the work planned.

Totals Column (work items)
The *Totals* column is the sum of the Scopes columns *1, 2,* and *3,* for each work item. The *Totals* column also shares the sum of the *Total* row and *Total Inflated* rows at the lower right corner.

Total Row (scopes)
The *Total* row is the sum of the Scopes columns *1, 2, 3,* and *Totals* column, for each category. The *Total* row and *Total Inflated* rows are totaled at the lower right corner.

Total Inflated Row
The *Total Inflated* row is the sum of the Scopes columns *1, 2, and 3 Totals* column for each category multiplied by a coefficient to determine the inflated cost and then compounded annually.

Scope 1 is shown with an inflation factor of 5% for work to be performed within a 2 yr period.
Scope 2 is shown with an inflation factor of 4% for work to be performed within a 5 yr period.
Scope 3 is shown with an inflation factor of 4% for work to be performed within a 5 yr period.

The *Total* row and *Total Inflated* rows are totaled at the lower right corner.

The Assessment is broken into five categories with specific evaluation concerns in each:

1. Site
- Storm Drainage
- Drives and Walks
- Landscaping
- Site Improvements
- Play Areas
- Sanitary System
- Accessible Parking and Entrance Approach

2. Building Envelope
- Roofs
- Exterior Walls
- Windows
- Exterior Entrances and Doors
- Thermal Insulation
- Accessible Egress and Ingress
- Building Structural System

3. Building Interiors
- Floor Finishes
- Wall Finishes
- Ceiling Finishes
- Interior Doors and Exitways
- Code Compliance Issues
- Accessibility
- Hazardous Material Remediation

4. Mechanical
- Domestic Hot Water Generation
- Cold Water Services
- Gas Services
- Piping for Plumbing Systems
- Plumbing Fixtures
- Heat Generation
- Cooling System
- Piping for Heating Systems
- Temperature Controls
- Ventilation
- Accessible Plumbing Fixtures

5. Electrical
- Main Services and Distribution
- Convenience Power
- Fire Alarm Systems
- Lighting Systems
- Emergency Lighting Systems
- Communications Systems
- Computer Network & Technology Systems
- Site Lighting
- Accessible Electrical Devices
- Security System

BUILDING DATA

CHARLTON ELEMENTARY SCHOOL

GENERAL INFORMATION:	
Building:	Charlton Elementary School
Address:	9 Burlingame Road, Charlton, MA 01507
Director of Public Facilities:	Joseph Caron
Head Custodian:	Scott Cushing
CODE CLASSIFICATION:	
Occupancy:	Educational
Construction Type:	Type: 2B
BUILDING HISTORY:	
Original Building:	1957 29,000 SF
Addition:	1987 25,300 SF
SITE / BUILDING AREA:	
Site Area:	7.1 Acres
Total Building Area:	54,300 SF
Lower Level Area:	22,900 SF
Ground Floor Area:	31,400 SF
SITE COMPONENTS:	
Parking/Driveways:	Bituminous paving- circular driveway (front). Parking on west side.
Walkways:	Concrete sidewalks.
Lighting:	West parking lot flood lighting attached to west wall of building.
Storm Drainage:	Surface.
Sanitary System:	Onsite Septic and leach field - south of building.
Play Areas:	1 paved playground. 1 playground with mulch play surfacing. Play equipment.
Standby Power:	LP generator and transfer switch 1988. Egress lighting, cooler, freezer, water booster pumps, fire alarm system, office lighting and power, Head-end room/data system.
Lighting:	T8 fluorescent typical. T5 in gymnasium. LED exterior.
Fire Alarm:	Manual with heat and smoke detectors.



ARCHITECTURAL COMPONENTS:

Foundation:	Reinforced concrete.
Super Structure:	Masonry walls with steel roof structure.
Floor Structure:	Concrete slab on-grade. Concrete on steel deck.
Roof Structure:	Mostly flat roofs sloping towards roof drains. sloped roof portion over entry way. Roof structure consisting of tapered insulation over metal deck over steel joists.
Exterior Walls:	1957 Construction: Brick veneer finish over concrete masonry 1987 Addition: 4” Brick veneer finish over 2” insulation over 6” CMU.
Roofing:	3-Ply roof system with aggregate
Window Systems:	Mostly aluminum frames with double pane insulating glazing. Original construction windows, wood frame with single pane glazing.
Exterior Doors	Hollow metal door and frame.

BUILDING DATA (CONTINUED)

ARCHITECTURAL COMPONENTS (continued):		MECHANICAL / ELECTRICAL COMPONENTS:	
Interior Doors	Wood doors w/ hollow metal frames.	Water Service:	2" domestic water service.
Stairs:	Concrete filled steel pan.	Domestic Hot Water:	Boiler indirect.
Floors:	Carpet, Tile, VCT.	Fire Suppression:	None.
Interior Walls:	Concrete block masonry. Plaster finish.	Heating Systems:	Oil fired boilers 1957, 1988. New burners installed 1988. Hot water unit ventilators, cabinet heaters, and unit heaters. Electric heat at offices, library, nurse. (3) Packaged RTUs. Pneumatic control system. Split system at head-end room.
Wall Finishes:	Paint over plaster and concrete block masonry.		
Ceiling Finishes:	Mostly ACT with some plaster.		
Conveying Systems:	2-stop passenger elevator.	Cooling Systems:	Air-conditioning at offices, library, nurse.
		Electric Service:	1200 amp service. Switchgear 1988, original panels and distribution in 1957 building.
		Paging/Timeclock System:	1988 analog system.
		Alarm Monitoring:	Boilers, cooler, freezer, domestic hot water heater, heating loop (web-based).

Category	Scope 1	Scope 2	Scope 3	Total
Building Summary				**Charlton Elementary School**
1. SITE	0	770,430	10,400	780,830
2. BUILDING ENVELOPE	2,698,150	1,656,655	0	4,354,805
3. BUILDING INTERIORS	0	566,072	208,481	774,553
4. MECHANICAL	3,300,765	1,160,900	710,710	5,172,375
5. ELECTRICAL	442,065	2,522,195	0	2,964,260
[1]Total	6,440,980	6,676,252	929,591	14,046,823
[1]Total Inflated @ 5% for Scope 1, 4% for Scopes 2-3 and Compounded Annually	7,101,180	8,122,681	1,130,990	16,354,851

[1]Totals include Soft Costs (30%): Contingency, Administration and A/E Fees.

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
1. SITE										**CHARLTON ELEMENTARY SCHOOL**
1.1 Drives and Walks: Paving is cracked and showing its age. Replace bituminous paving on existing base at drives, walks, and parking lots.	**1995**	6,730	SY	55.00	370,150	481,195		481,195		481,195
1.2 Bituminous Curbing: Bituminous curbs along the road are damaged. Replace bituminous curbing at entrances and parking lots.	**1995**	450	LF	20.00	9,000	11,700		11,700		11,700
1.3 Granite Curbing: Existing granite curbs are in good condition. Some sections need replaced/reset.	**1995**	18	LF	41.00	738	960		960		960
1.4 Concrete sidewalks: Concrete sidewalks are deteriorated and cracked. Replace with new concrete sidewalks.	**1995**	210	SY	90.00	18,900	24,570		24,570		24,570
1.5 Accessible Van Parking: Create one accessible van parking space.	**1995**	1	EA	5,000.00	5,000	6,500			6,500	6,500
1.6 Accessible Parking Identification: Add missing or replace broken signage at accessible parking spaces.	**1995**	2	EA	500.00	1,000	1,300			1,300	1,300
1.7 Accessible Curb Cuts: Provide curb cut at sidewalk to building entrance. Existing does not appear to have a proper side slope.	**1995**	1	EA	2,000.00	2,000	2,600			2,600	2,600
1.8 Site Lighting: There is no existing site lighting. Add pole-mounted site lights for improved night visibility.		8	EA	6,000.00	48,000	62,400		62,400		62,400

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
1. SITE										**CHARLTON ELEMENTARY SCHOOL**
1.9 Site Drainage: It was reported that water from the church parking lot is draining down to the old leeching field. As a result this area and the adjacent playground is always soggy. Conduct storm drainage study.		1	LS	20,000.00	20,000	26,000		26,000		26,000
1.10 Fencing: Chain link fences are generally in good condition with minor repairs/reset needed at the play area.	**1995**	550	LF	47.00	25,850	33,605		33,605		33,605
1.11 Wood Fiber Playground Surfacing: Wood mulch is compacted and depleted. Remove and replace with poured in place rubber surfacing.		2,000	SY	50.00	100,000	130,000		130,000		130,000
Total							0	770,430	10,400	780,830
Total Inflated @ 5% for Scope 1, 4% for Scopes 2-3 and Compounded Annually							0	937,346	12,653	949,999

[1]Total includes Soft Costs (30%): Contingency, Administration and A/E Fees.

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
2. BUILDING ENVELOPE									**CHARLTON ELEMENTARY SCHOOL**	
2.1 EPDM Roofs: The existing EPDM roofing membrane has been leaking and is at the end of its life expectancy. Replace with new PVC roofing system.	**1988**	30,900	SF	65.00	2,008,500	2,611,050	2,611,050			2,611,050
2.2 Metal Roof System: The existing metal standing seam roofing system is at the end of its life expectancy. Replace with new roofing system.	**1988**	1,000	SF	65.00	65,000	84,500	84,500			84,500
2.3 Damaged Masonry Walls: Replace cracked veneer brick and CMU block, about 3% to 4% of the entire 24,400 SF total exterior wall area.	**1988**	1,220	SF	100.00	122,000	158,600		158,600		158,600
2.4 Masonry Mortar Joints: Mortar joints are failing especially at CMU veneer. Repoint about 20% to 40% of the entire 24,400 SF total exterior wall area.	**1988**	10,000	SF	45.00	450,000	585,000		585,000		585,000
2.5 Masonry Joint Sealant: Remove deteriorated joint sealant at masonry wall and replace with new sealants and backer rods.	**1988**	700	LF	15.00	10,500	13,650		13,650		13,650
2.6 Staining and Efflorescence: Power wash and clean at various locations of the masonry veneer wall, approximately 70% to 80% of the 24,400 SF total wall areas.	**1988**	19,000	SF	15.00	285,000	370,500		370,500		370,500
2.7 Seal Masonry Walls: Clean the entire exterior wall and apply masonry primer and sealer.	**1988**	24,400	SF	15.00	366,000	475,800		475,800		475,800
2.8 Exterior Egress Doors: Some doors and frames are rusting at the bottom. Replace doors and frames.	**1988**	2	EA	3,300.00	6,600	8,580		8,580		8,580

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
2. BUILDING ENVELOPE									**CHARLTON ELEMENTARY SCHOOL**	
2.9 Window Glazing: Existing windows are in fair condition. Some units need reglazing or replacement.	**1988**	5	SF	250.00	1,250	1,625		1,625		1,625
2.10 Window and Door Perimeter Sealants: Remove and replace deteriorated sealant joints with new sealant and backer rods.	**1988**	2,200	LF	15.00	33,000	42,900		42,900		42,900
2.11 Leaking Roof Drain at Interior Stair: Repair roof leaks.	**1988**	1	LS	2,000.00	2,000	2,600	2,600			2,600
Total							2,698,150	1,656,655	0	4,354,805
Total Inflated @ 5% for Scope 1, 4% for Scopes 2-3 and Compounded Annually							2,974,710	2,015,574	0	4,990,284

[1]Total includes Soft Costs (30%): Contingency, Administration and A/E Fees.

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
3. BUILDING INTERIORS									**CHARLTON ELEMENTARY SCHOOL**	
3.1 Unsightly 2' x 4' ACT Ceilings: Replace sagging / stained suspended acoustic ceiling with new 2' x 4' ceiling system.	**1988**	32,560	SF	8.00	260,480	338,624		338,624		338,624
3.2 Cracking Gypsum Wall: Patch as needed and repaint.	**1988**	30	LF	15.00	450	585		585		585
3.3 Unsightly Painted Walls: Paint walls.	**1988**	750	SF	2.00	1,500	1,950		1,950		1,950
3.4 Worn Carpet: The original carpet is past its effective useful life. Replace with new carpet.	**1988**	21,360	SF	6.00	128,160	166,608		166,608		166,608
3.5 VAT Flooring: Abate VAT flooring and install new VCT.	**1988**	40	SF	18.00	720	936			936	936
3.6 Cracking Masonry: Patch and repoint cracks and joints as needed.	**1988**	30	LF	45.00	1,350	1,755		1,755		1,755
3.7 Inadequate Guardrail Height: Guardrails are too low. Add to existing or replace to height of 42".	**1988**	135	LF	450.00	60,750	78,975			78,975	78,975
3.8 Sinks in Staff Rooms and Classrooms not ADA Compliant: Remove existing casework and counters at sink. Replace with new casework and countertop providing 30" min. wide kneespace access to sink.	**1988**	25	EA	3,800.00	95,000	123,500			123,500	123,500
3.9 Interior Doors: Existing wooden classroom doors swell and become difficult to open.	**1988**	29	EA	1,500.00	43,500	56,550		56,550		56,550

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
3. BUILDING INTERIORS									**CHARLTON ELEMENTARY SCHOOL**	
3.10 Urinal Screens: Existing urinal partitions are significantly deteriorated and do not meet existing requirements, recommend replacing.	**1988**	6	EA	650.00	3,900	5,070			5,070	5,070
Total							0	566,072	208,481	774,553
Total Inflated @ 5% for Scope 1, 4% for Scopes 2-3 and Compounded Annually							0	688,713	253,649	942,362

[1]Total includes Soft Costs (30%): Contingency, Administration and A/E Fees.

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
4. MECHANICAL									**CHARLTON ELEMENTARY SCHOOL**	
4.1 Fire Sprinkler System: Building lacks a fire sprinkler system. Install a fire sprinkler system in all areas.		54,300	SF	8.00	434,400	564,720			564,720	564,720
4.2 Exhaust Fans: Exhaust fans are beyond their useful service life expectancy. Replace existing exhaust fans.	**1988**	8	EA	3,450.00	27,600	35,880	35,880			35,880
4.3 Inaccessible Drinking Fountains: Install accessible drinking fountains**.**	**1957**	2	EA	5,400.00	10,800	14,040			14,040	14,040
4.4 Boilers: Boilers are beyond their useful service life expectancy. Replace existing boilers.	**1957 1988**	1	LS	500,000	500,000	650,000	650,000			650,000
4.5 Heating System Distribution Piping: Piping is original and beyond useful service life expectancy. Replace all areas in 1957 building.	**1957**	54,300	SF	5.00	271,500	352,950	352,950			352,950
4.6 Circulator Pumps: Hot water circulating pumps are beyond their useful life expectancy. Replace pumps.	**1988**	2	EA	15,350.00	30,700	39,910	39,910			39,910
4.7 Building Management System: Facility lacks integrated HVAC controls and energy management system. Provide fully integrated BMS.	**1957**	54,300	SF	10.00	543,000	705,900		705,900		705,900
4.8 Unit Ventilators: Unit ventilators are failing and beyond useful service life. Replace all units.	**1957 1988**	22	EA	8,375.00	184,250	239,525	239,525			239,525
4.9 Cooling Systems: Packaged rooftop units are beyond useful service life expectancy. Replace all.	**1988**	2	EA	12,000	24,000	31,200	31,200			31,200

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
4. MECHANICAL									**CHARLTON ELEMENTARY SCHOOL**	
4.10 Domestic Water Heater: Indirect boiler water heater is failing. Replace indirect heater with new.	**1988**	1	LS	7,500	7,500	9,750	9,750			9,750
4.11 Domestic Water Distribution Piping: Piping is original and beyond useful life expectancy. Replace all areas in 1957 building.	**1957**	54,300	SF	5.00	271,500	352,950	352,950			352,950
4.12 Sanitary Drain Piping: Piping is original and beyond useful service life expectancy. Replace all areas in 1957 building.	**1957**	54,300	SF	20.00	1,086,000	1,411,800	1,411,800			1,411,800
4.13 Plumbing Fixtures: Plumbing fixtures in 1957 building are original and non-accessible. Replace all with accessible fixtures.	**1957**	29	EA	3,500.00	101,500	131,950			131,950	131,950
4.14 Kitchen Exhaust Hood: Kitchen hood is non-functional and lacks a fire suppression system. Install new hood with Ansul system.	**1988**	1	LS	125,000	125,000	162,500	162,500			162,500
4.15 Kitchen Sink: 2-bay sink is non-compliant with health code. Replace with 3-bay sink.	**1988**	1	LS	5,000.00	5,000	6,500	6,500			6,500
4.16 Kitchen Counters: Butcher block tray slide is non-sanitary. Replace with NSF stainless steel.		1	LS	5,000.00	5,000	6,500	6,500			6,500
4.17 Back-flow Preventers at Chemical Mixers: Chemical mixers in janitorial closets are required to have backflow preventers.	**1999**	2	EA	500.00	1,000	1,300	1,300			1,300

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
4. MECHANICAL										**CHARLTON ELEMENTARY SCHOOL**
4.18 Kitchen Equipment: 70% of kitchen equipment is beyond useful service life expectancy. Replace obsolete equipment with new.	**1988**	1	LS	350,000	350,000	455,000		455,000		455,000
Total							3,300,765	1,160,900	710,710	5,172,375
Total Inflated @ 5% for Scope 1, 4% for Scopes 2-3 and Compounded Annually							3,639,093	1,412,412	864,687	5,916,193

[1]Total includes Soft Costs (30%): Contingency, Administration and A/E Fees.

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
5. ELECTRICAL									**CHARLTON ELEMENTARY SCHOOL**	
5.1 Electric Distribution: 1957 building has original distribution panels and wiring. Replace panels and wiring, all areas.	**1957**	54,300	SF	3.50	190,050	247,065	247,065			247,065
5.2 Convenience Receptacles: Classrooms in original 1957 building have inadequate number of receptacles for electronic devices. Add receptacles at room perimeter.	**1957**	54,300	SF	4.00	217,200	282,360		282,360		282,360
5.3 Standby Generator: LP standby generator is approaching end of useful service life. Replace with new generator and transfer switch.	**1988**	1	LS	150,000	150,000	195,000	195,000			195,000
5.4 Fluorescent Lighting: T8 and T5 lighting is inefficient. Replace with LED.	**1957 1988**	54,300	SF	20.00	1,086,000	1,411,800		1,411,800		1,411,800
5.5 Phone System: Phone system is obsolete technology. Upgrade system with VOIP.	**1988**	25	EA	500.00	12,500	16,250		16,250		16,250
5.6 Paging/Timeclock System: Existing systems are non-integrated, unsynchronized and obsolete. Replace with new integrated system.	**1957**	54,300	SF	5.00	271,500	352,950		352,950		352,950
5.7 Security System: Upgrade security system with integrated electronic security system consisting of intrusion, card access, and CCTV.	**1988**	54,300	SF	6.50	352,950	458,835		458,835		458,835
Total							442,065	2,522,195	0	2,964,260
Total Inflated @ 5% for Scope 1, 4% for Scopes 2-3 and Compounded Annually							487,377	3,068,636	0	3,556,013

[1]Total includes Soft Costs (30%): Contingency, Administration and A/E Fees.

CHARLTON ELEMENTARY SCHOOL - SITE



1.1 Deteriorated bituminous drive and parking.



1.2 Bituminous curbs along the road are damaged.



1.4 Concrete sidewalks are deteriorated and cracked.



1.5 Create accessible van parking space.



1.7 Provide curb cut at sidewalk to building entrance.



1.9 Site drainage issue.

CHARLTON ELEMENTARY SCHOOL – BUILDING ENVELOPE



2.1 The existing EPDM roofing membrane has been leaking.



2.3 Damaged Masonry Walls.



2.4 Mortar joints are failing.



2.6 Staining and efflorescence.



2.9 Window glazing failed and leaked.



2.11 Leaking roof drain in stairwell.

CHARLTON ELEMENTARY SCHOOL – INTERIOR



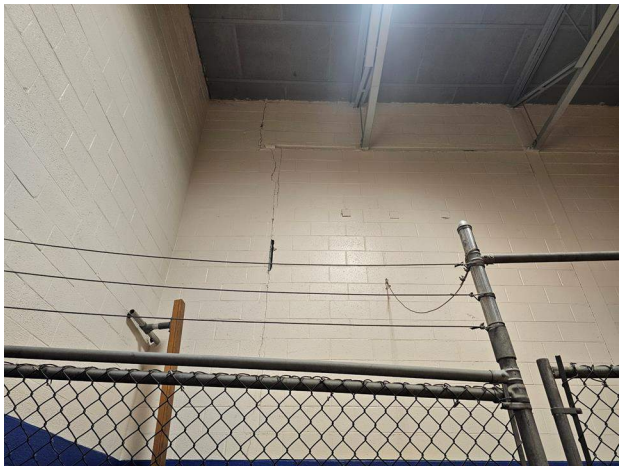
3.1 Unsightly stained and sagging ceiling tiles.



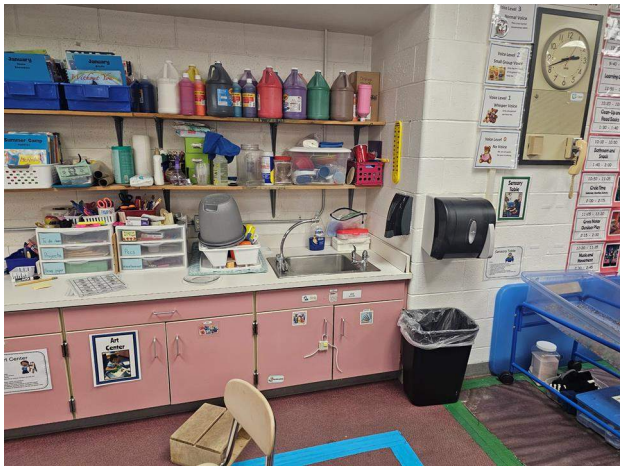
3.2 Cracking in plaster walls.



3.3 Unsightly flaking wall paint.



3.6 Cracks in Masonry Gym wall.



3.8 Non ADA counter at sink.

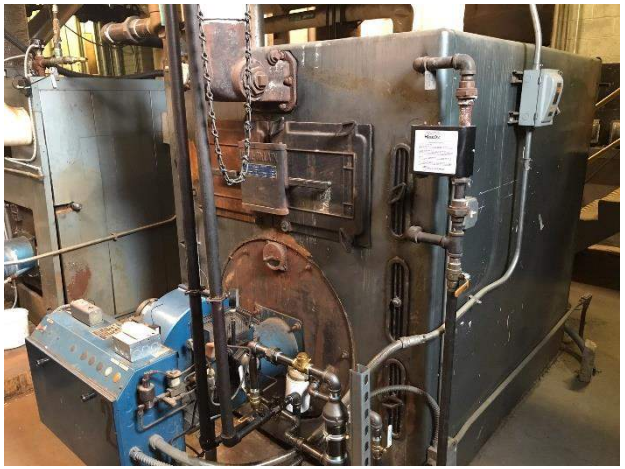


3.10 Missing Urinal Screens.

CHARLTON ELEMENTARY SCHOOL – MECHANICAL



4.2 Exhaust fans are beyond useful service life. Replace with new.



4.4 Boilers are beyond useful service life. Replace with new.



4.6 Hot water circulating pumps are beyond useful service life. Replace with new.



4.7 Facility lacks integrated HVAC controls. Update to fully integrated BMS.



4.9 Packaged rooftop units are beyond useful service life. Replace with new.



4.10 Indirect boiler water heater is failing. Replace with new.

CHARLTON ELEMENTARY SCHOOL – ELECTRICAL



5.1 1957 building has original distribution panels and wiring.



5.2 Classrooms in original 1957 building have inadequate number of receptacles.



5.3 LP standby generator is approaching end of useful service life.



5.4 T8 and T5 lighting is inefficient. Replace with LED.



5.5 Phone system is obsolete technology. Upgrade system with VOIP.



5.6 Existing paging/timeclock systems are non-integrated and obsolete technology.

BUILDING DATA

MASON ROAD SCHOOL

GENERAL INFORMATION:	
Building:	Mason Road School
Address:	20 Mason Road, Dudley, MA 01571
Director of Public Facilities:	Joseph Caron
Head Custodian:	Craig Smith
CODE CLASSIFICATION:	
Occupancy:	Educational
Construction Type:	Type 2B
BUILDING HISTORY:	
Original Building:	1962 18,600 SF
Addition:	1999 17,655 SF
SITE / BUILDING AREA:	
Site Area:	28.50 Acres
Total Building Area:	35,955 SF
Ground Floor Area:	35,955 SF
SITE COMPONENTS:	
Parking/Driveways:	Bituminous paving at circular driveway at front and parking lot in rear.
Walkways:	Bituminous paving.
Lighting:	Light poles and bollard lighting.
Storm Drainage	Catch basins to on-site storm water infiltration.
Sanitary System:	4”-6” town sanitary drain.
Play Areas:	(1) playground area, mulch play surfacing, playground equipment, (1) basketball backstop.



ARCHITECTURAL COMPONENTS:	
Foundation:	Reinforced concrete.
Super Structure:	Structural steel.
Floor Structure:	Concrete slab on grade.
Roof Structure:	Existing: 7 ½” roof panels, supported with steel beams. New: Roofing and insulation on metal deck over structural steel.
Exterior Walls:	Mostly 8” reinforced concrete masonry units (CMU) w/ 4” brick veneer and air space.
Roofing:	Bond T&G roofing.
Window Systems:	Aluminum frames w/ single pane glazing.

BUILDING DATA (CONTINUED)

ARCHITECTURAL COMPONENTS (continued):		MECHANICAL / ELECTRICAL COMPONENTS:	
Exterior Doors	Hollow metal frames with aluminum doors	Water Service:	6” town water.
Interior Doors	Hollow metal frames with solid core wood doors.	Domestic Hot Water:	Gas fired domestic water heater w/ 80 gal. storage tank (2000).
Stairs:	Concrete stairs at exterior doors.	Fire Suppression:	Fully sprinklered.
Floors:	Carpet, Tile, VCT	Heating Systems:	(2) gas-fired hot water boilers. Unit ventilators.
Interior Walls:	Mostly CMU, some sections 2x4 wood stud framing.	Cooling Systems:	Air handling units (AHU) above stage and library. Packaged RTUs at offices, library, nurse, and guidance rooms. Split system at head-end room.
Wall Finishes:	Paint over CMU.		
Ceiling Finishes:	Mostly ACT, some painted gyp ceilings.	Electric Service:	800 amp, 3-phase service.
Conveying Systems:	Vertical wheelchair lift at stage.	Standby Power:	Natural gas generator (2000). Boiler, pumps, egress lighting, exit signs, cooler, freezer.
		Lighting:	T8 fluorescent parabolic.
		Fire Alarm:	FACP, smoke and heat detectors replaced 2023.
		Security:	Avigilon system (3) door video intercoms with access control. (1) CCTV camera at lobby.
		Radon Mitigation:	Underslab mitigation system, (8) exhaust fans.

Category	Scope 1	Scope 2	Scope 3	Total
Building Summary				**Mason Road School**
1. SITE	0	280,650	39,000	319,650
2. BUILDING ENVELOPE	3,295,500	237,835	4,290	3,537,625
3. BUILDING INTERIORS	1,950	392,249	184,145	578,344
4. MECHANICAL	1,334,223	467,415	31,200	1,832,838
5. ELECTRICAL	0	1,555,558	0	1,555,558
[1]Total	4,631,673	2,933,707	258,635	7,824,015
[1]Total Inflated @ 5% for Scope 1, 4% for Scopes 2-3 and Compounded Annually	5,106,419	3,569,303	314,669	8,990,392

[1]Totals include Soft Costs (30%): Contingency, Administration and A/E Fees.

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
1. SITE										**MASON ROAD SCHOOL**
1.1 Granite Curbing: Granite curbing is damaged in few areas. Replace with new granite curbs.	**2000**	24	LF	41.00	984	1,280		1,280		1,280
1.2 Bituminous sidewalks: Bituminous sidewalks are deteriorated and cracked. Replace with new bituminous sidewalks.	**2000**	540	SY	50.00	27,000	35,100		35,100		35,100
1.3 Concrete sidewalks: Remove and replace deteriorated sections of the concrete sidewalks.	**2000**	630	SY	90.00	56,700	73,710		73,710		73,710
1.4 Accessible Van Parking: Create one accessible van parking space.	**2000**	1	EA	5,000.00	5,000	6,500			6,500	6,500
1.5 Catch Basin / Manhole: Rebuild sinking manhole and reset storm drainage cover.	**2000**	5	EA	5,000.00	25,000	32,500		32,500		32,500
1.6 Wood Fiber Playground Surfacing: Wood mulch is compacted and depleted. Remove and replace with poured in place rubber surfacing.	**2000**	1,100	SY	50.00	55,000	71,500		71,500		71,500
1.7 Concrete Loading Dock: Patch/repair and seal loading dock.	**2000**	1	LS	3,000.00	3,000	3,900		3,900		3,900
1.8 Drainage Issue at Parking lot East Side: The drainage appears to be inadequate. Conduct storm drainage study.	**2000**	1	LS	20,000.00	20,000	26,000		26,000		26,000
1.9 Fuel Oil Tank: Remove existing abandoned underground fuel oil tank, backfill and infill pavement.	**1962**	1	LS	25,000.00	25,000	32,500			32,500	32,500

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
1. SITE										**MASON ROAD SCHOOL**
1.10 Fencing: Replace damaged sections of chain link fence.	**2000**	600	LF	47.00	28,200	36,660		36,660		36,660
Total							0	280,650	39,000	319,650
Total Inflated @ 5% for Scope 1, 4% for Scopes 2-3 and Compounded Annually							0	341,454	47,449	388,903

[1]Total includes Soft Costs (30%): Contingency, Administration and A/E Fees.

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
2. BUILDING ENVELOPE										**MASON ROAD SCHOOL**
2.1 Membrane PVC Roof System: The existing PVC roof is at the end of its life expectancy. Replace with new PVC roof system.	**2000**	39,000	SF	65.00	2,535,000	3,295,500	3,295,500			3,295,500
2.2 Staining and Efflorescence: Power wash and clean at various locations of the masonry veneer wall, approximately 40% to 50% of 14,000 SF.	**2000**	7,000	SF	15.00	105,000	136,500		136,500		136,500
2.3 Exterior Doors Weather Stripping: Replace weather stripping on exterior doors.	**2000**	180	LF	10.00	1,800	2,340		2,340		2,340
2.4 Window Glazing: Existing windows are in fair condition. Some units need reglazing or replacement.	**2000**	100	SF	250.00	25,000	32,500		32,500		32,500
2.5 Window and Door Perimeter Sealants: Remove and replace failing sealant joints with new sealants and backer rods.	**2000**	1,900	LF	15.00	28,500	37,050		37,050		37,050
2.6 Masonry Joints Sealant: Remove and replace deteriorated sealant joints with new sealants and backer rods.	**2000**	650	LF	15.00	9,750	12,675		12,675		12,675
2.7 Paint Underside of Exposed Roof Deck: Prepare, prime and paint underside of exterior soffit and beams.	**2000**	200	SF	15.00	3,000	3,900		3,900		3,900
2.8 Exterior Egress Doors: Some doors and frames are rusting at the bottom. Replace doors and frames.	**2000**	3	EA	3,300.00	9,900	12,870		12,870		12,870

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
2. BUILDING ENVELOPE									**MASON ROAD SCHOOL**	
2.9 Exterior Door and Frame not ADA Compliant: Remove existing door and frame and replace with ADA compliant unequal pair.	**2000**	1	EA	3,300.00	3,300	4,290			4,290	4,290
Total							3,295,500	237,835	4,290	3,537,625
Total Inflated @ 5% for Scope 1, 4% for Scopes 2-3 and Compounded Annually							3,633,289	289,363	5,219	3,927,871

[1]Total includes Soft Costs (30%): Contingency, Administration and A/E Fees.

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
3. BUILDING INTERIORS									**MASON ROAD SCHOOL**	
3.1 Unsightly 2' x 4' SAT Ceilings: Replace sagging / stained suspended acoustic ceiling with new 2' x 4' ceiling system.		30,000	SF	8.00	240,000	312,000		312,000		312,000
3.2 Floor cracked between new and old building: Remove VCT flooring, add expansion joint, level subfloor and replace VCT flooring.	**1963/ 1999**	11	SF	100.00	1,100	1,430		1,430		1,430
3.3 ADA issue at radon piping: Radon piping interferes with accessibility clearance requirements. Reroute radon piping.	**1999**	8	EA	1,500.00	12,000	15,600			15,600	15,600
3.4 Bathroom towel holders encroaching on ADA clearance: Relocate towel holder.	**1999**	13	EA	250.00	3,250	4,225			4,225	4,225
3.5 Worn Carpet: The original carpet is past its effective useful life. Replace with new carpet.	**1999**	8,000	SF	6.00	48,000	62,400		62,400		62,400
3.6 Cracks in VCT Flooring: VCT flooring is worn and beyond its useful life. Remove and install new VCT.	**1999**	42	SF	15.00	630	819		819		819
3.7.1 ADA Toilet Partitions: Existing partitions are deteriorating.		8	EA	1,800.00	14,400	18,720			18,720	18,720
3.7.2 Standard Toilet Partitions: Deteriorating partition screens.		10	EA	1,600.00	16,000	20,800			20,800	20,800
3.7.3 Urinal Screen: Install accessible toilet partition screens.		4	EA	650.00	2,600	3,380			3,380	3,380
3.8 Inadequate Guardrail Design: Guardrail missing 1' extensions at top and bottom.		64	LF	450.00	28,800	37,440			37,440	37,440

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
3. BUILDING INTERIORS									**MASON ROAD SCHOOL**	
3.9 Sinks in Staff Rooms and Classrooms not ADA Compliant: Remove existing casework and counters at sink. Replace with new casework and countertop providing 30" min. wide kneespace access to sink.		17	EA	3,800.00	64,600	83,980			83,980	83,980
3.10 Door into Exitway Vestibule: Remove existing deteriorating door and frame and replace with new.	**1963/ 1999**	1	EA	1,500.00	1,500	1,950	1,950			1,950
3.11 Interior Doors: Some rusting present at classroom toilet room doors. Recommend replacing frames.		8	EA	1,500.00	12,000	15,600		15,600		15,600
Total							1,950	392,249	184,145	578,344
Total Inflated @ 5% for Scope 1, 4% for Scopes 2-3 and Compounded Annually							2,150	477,231	224,041	703,421

[1]Total includes Soft Costs (30%): Contingency, Administration and A/E Fees.

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
4. MECHANICAL										**MASON ROAD SCHOOL**
4.1 Hot Water Boilers: Boilers have cracked sections. Replace with new units.	**1999**	1	LS	800,000	800,000	1,040,000	1,040,000			1,040,000
4.2 Back-flow Preventers at Chemical Mixers: Chemical mixers in janitorial closets are required to have backflow preventers.	**1999**	1	EA	500.00	500	650	650			650
4.3 Circulating Pumps: Circulating pumps are approaching end of expected useful service life. Replace pumps.	**1999**	3	EA	15,350.00	46,050	59,865	59,865			59,865
4.4 Hot Water Distribution Piping: Copper piping is leaking and corroded. Replace with new distribution piping.	**1999**	35,955	SF	5.00	179,775	233,708	233,708			233,708
4.5 Classroom Sinks: Classroom sinks are non-accessible. Replace with new accessible sinks.	**1999**	16	EA	1,500.00	24,000	31,200			31,200	31,200
4.6 Building Management System: Facility lacks integrated HVAC controls and energy management system. Provide fully integrated BMS.	**1999**	35,955	SF	10.00	359,550	467,415		467,415		467,415
Total							1,334,223	467,415	31,200	1,832,838
Total Inflated @ 5% for Scope 1, 4% for Scopes 2-3 and Compounded Annually							1,470,981	568,682	37,960	2,077,622

[1]Total includes Soft Costs (30%): Contingency, Administration and A/E Fees.

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
5. ELECTRICAL									**MASON ROAD SCHOOL**	
5.1 Fluorescent Lighting: T8 lighting is inefficient. Replace with LED.	**1999**	35,955	SF	20.00	719,100	934,830		934,830		934,830
5.2 Phone System: Phone system is obsolete technology. Upgrade system with VOIP.	**1999**	28	EA	500.00	14,000	18,200		18,200		18,200
5.3 Security System: Upgrade security system with integrated electronic security system consisting of intrusion, card access, and CCTV.	**1999**	35,955	SF	6.50	233,708	303,820		303,820		303,820
5.4 Paging/Timeclock System: Existing systems are non-integrated, unsynchronized and obsolete. Replace with new integrated system.	**1999**	35,955	SF	5.00	179,775	233,708		233,708		233,708
5.5 Theatrical Lighting and Sound: Lighting and sound systems are obsolete. Replace with new systems.	**1999**	1	LS	50,000.00	50,000	65,000		65,000		65,000
Total							0	1,555,558	0	1,555,558
Total Inflated @ 5% for Scope 1, 4% for Scopes 2-3 and Compounded Annually							0	1,892,574	0	1,892,574

[1]Total includes Soft Costs (30%): Contingency, Administration and A/E Fees.

MASON ROAD SCHOOL - SITE



1.1 Damaged granite curbing.



1.2 Cracked bituminous sidewalk.



1.4 Create one accessible van parking space.



1.5 Sinking catch basin / manhole.



1.6 Wood fiber on the playground area.



1.10 Damaged section of chain link fence.

MASON ROAD SCHOOL – BUILDING ENVELOPE



2.1 Existing PVC roofing system.



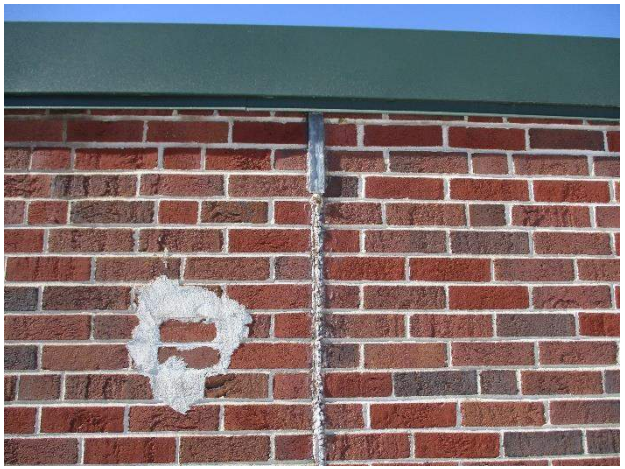
2.2 Staining and Efflorescence.



2.3 Failing weather stripping on exterior doors.



2.5 Failing perimeter sealant joints.

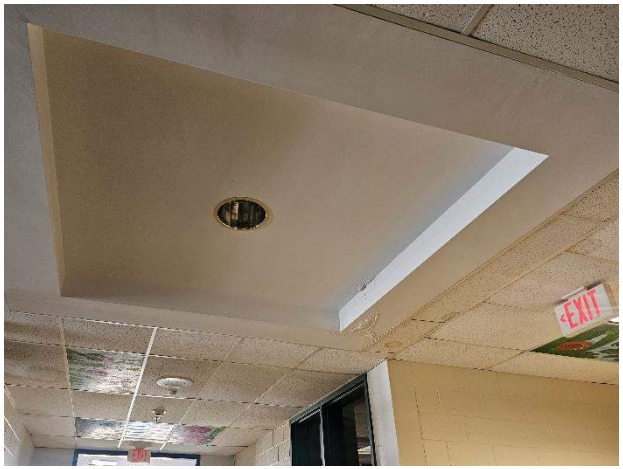


2.6 Deteriorated masonry sealant joints.



2.8 Rusted door and frame at the bottom.

MASON ROAD SCHOOL – INTERIOR



3.1 Significant water damage at ACT ceiling.



3.2 Cracking where old building meets new building.



3.3 Radon piping encroaching on ADA pull clearance.



3.4 Paper towel holders encroaching in ADA clearance.



3.5 Worn carpets in classrooms.



3.6 Cracking at VCT flooring in classroom.

MASON ROAD SCHOOL – INTERIOR CONTINUED



3.7.1 Existing partitions are deteriorating.



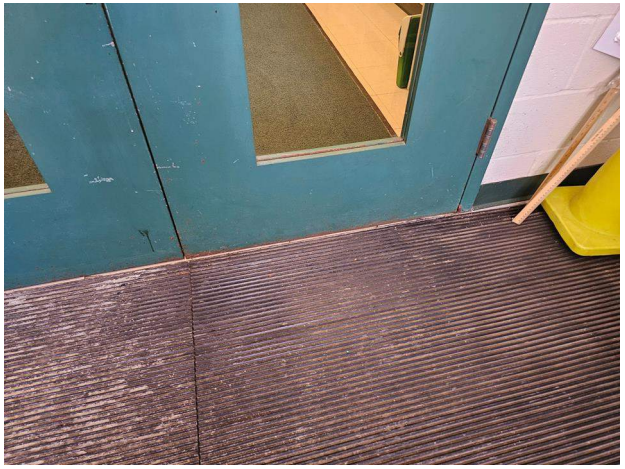
3.7.3 Urinals missing screens.



3.8 Handrails missing extensions at top and bottom.



3.9 Non-ADA compliant casework at sinks in classrooms and staffrooms.



3.10 Rusting door and frames at exit way vestibule.



3.11 Rusting door frames in classroom bathrooms.

MASON ROAD SCHOOL – MECHANICAL



4.1 Boilers have cracked sections. Replace with new units.



4.2 Cleaning chemical mixers in janitorial closets are required to have backflow preventers.



4.3 Circulating pumps are approaching end of expected useful service life.



4.4 Copper piping is leaking and corroded. Replace with new piping.



4.5 Classroom sinks are non-accessible. Replace with new accessible sinks.



4.6 Facility lacks integrated HVAC controls and energy management system. Provide fully integrated BMS.

MASON ROAD SCHOOL – ELECTRICAL



5.1 T8 parabolic lighting is inefficient. Replace with LED.



5.3 Upgrade security system with integrated electronic security system consisting of intrusion, card access, and CCTV.



5.4 Existing paging/timeclock systems are non-integrated and obsolete.



5.5 Theatrical lighting and sound system is obsolete. Replace with new systems.

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BUILDING DATA

HERITAGE SCHOOL

GENERAL INFORMATION:	
Building:	Heritage School
Address:	34 Oxford Road, Charlton, MA. 01507
Director of Public Facilities:	Joseph Caron
Head Custodian:	Christopher Tittle
CODE CLASSIFICATION:	
Occupancy:	Educational
Construction Type:	Type 2B
BUILDING HISTORY:	
Original Building:	1989
SITE / BUILDING AREA:	
Site Area:	87.10 Acres (Lot combined with Charlton Middle School 135.48 Acres)
Total Building Area:	86,780 SF
Lower Level Area:	39,780 SF
Ground Floor Area:	47,000 SF



ARCHITECTURAL COMPONENTS:

SITE COMPONENTS:	
Parking/Driveways:	Bituminous paving - circular driveway (side) and parking lot at front.
Walkways:	Concrete.
Lighting:	LED light poles and building mounted fixtures.
Storm Drainage	Catch basins to storm drainage system.
Sanitary System:	Septic system.
Play Areas:	Metal fenced in playground equipment; 1 playground area with pea stone surface.1 baseball field.

Foundation:	Reinforced concrete.
Super Structure:	Structural steel.
Floor Structure:	Concrete on steel deck.
Roof Structure:	Steel framing with metal deck with 3” composite and 1.5” perlite board (at built up roof) or 2.5” Rigid insulation (at metal roof).
Exterior Walls:	6-8” CMU with insulation layer and 4” Split face or scored CMU.
Roofing:	Mostly sloping metal roof, some built up roofing.
Window Systems:	Hollow metal frame, combination of single and double pane windows.

BUILDING DATA (CONTINUED)

ARCHITECTURAL COMPONENTS (continued):		MECHANICAL / ELECTRICAL COMPONENTS:	
Exterior Doors	Hollow metal frames with metal doors.	Water Service:	City water.
Interior Doors	Mostly hollow metal frames with wood doors.	Domestic Hot Water:	Indirect boiler hot water storage tanks.
Stairs:	Exterior: Reinforced concrete. Interior: Concrete filled steel pan.	Fire Suppression:	None.
Floors:	Carpet, VCT, Tile, Terrazzo	Heating Systems:	(2) Oil fired boilers. 65 water source heat pumps. 2 vertical heat pumps.
Interior Walls:	Concrete masonry units (CMU).	Cooling Systems:	Chiller and cooling tower. 65 water source heat pumps.
Wall Finishes:	Paint over CMU.	Electric Service:	2000 amp service, 3 phase/277v.
Ceiling Finishes:	Approximately half ACT, half painted gyp board.	Standby Power:	Diesel generator (1987). Coolers, freezers, egress lighting, exit signs.
Conveying Systems:	None.	Lighting:	LED.
		Fire Alarm:	12 zone. FACP upgraded 2022. 1 zone devices upgraded.

Category	Scope 1	Scope 2	Scope 3	Total
Building Summary				**Heritage School**
1. SITE	0	1,819,051	10,400	1,829,451
2. BUILDING ENVELOPE	4,172,350	40,124,500	1,560	44,298,410
3. BUILDING INTERIORS	0	891,743	271,570	1,163,313
4. MECHANICAL	2,113,930	455,000	902,512	3,471,442
5. ELECTRICAL	350,123	1,297,361	0	1,647,484
[1]Total	6,636,403	44,587,655	1,186,042	52,410,100
[1]Total Inflated @ 5% for Scope 1, 4% for Scopes 2-3 and Compounded Annually	7,316,634	54,247,700	1,443,001	63,007,336

[1]Totals include Soft Costs (30%): Contingency, Administration and A/E Fees.

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
1. SITE										**HERITAGE SCHOOL**
1.1 Drives and Walks: Paving is cracked and heavily deteriorated with potholes and heaves. Replace bituminous paving and base.	**1989**	18,500	SY	55.00	1,017,500	1,322,750		1,322,750		1,322,750
1.2 Bituminous Curbing: Bituminous curbing is damaged. Replace bituminous curbing at parking lots.	**1989**	6,800	LF	20.00	136,000	176,800		176,800		176,800
1.3 Precast Concrete Curbs: Remove and replace deteriorated concrete curb at various locations throughout the site.	**1989**	1,000	LF	30.00	30,000	39,000		39,000		39,000
1.4 Bituminous sidewalks: Bituminous sidewalks are heavily deteriorated and cracked, creating a safety hazard. Replace with new bituminous sidewalks.	**1989**	460	SY	50.00	23,000	29,900		29,900		29,900
1.5 Concrete sidewalks: Remove and replace deteriorated sections of the concrete sidewalks.	**1989**	1,350	SY	90.00	121,500	157,950		157,950		157,950
1.6 Concrete Stairs: Patch and repair spalling concrete and seal.	**1989**	1	LS	5,000.00	5,000	6,500		6,500		6,500
1.7 Accessible Van Parking: Create accessible van parking space.	**1989**	1	EA	5,000.00	5,000	6,500			6,500	6,500
1.8 Exterior Handrails: Exterior handrails are missing extensions, creating a safety hazard. Replace with new handrails.	**1989**	50	LF	60.00	3,000	3,900			3,900	3,900
1.9 Catch Basin / Manhole: Rebuild sinking manhole and reset storm drainage cover.	**1989**	3	EA	5,000.00	15,000	19,500		19,500		19,500

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
1. SITE										**HERITAGE SCHOOL**
1.10 Fencing: Fencing is generally in good condition. Repair/replace any damaged sections of the chain link fence.	**1989**	10	LF	47.00	470	611		611		611
1.11 Pea Gravel Playground Surfacing: Pea gravel is depleted. Remove and replace with poured in place rubber surfacing.	**1989**	100	SY	50.00	5,000	6,500		6,500		6,500
1.12 Concrete Loading Dock: Remove and replace spalling concrete slab at the loading dock.	**1989**	30	SY	360.00	10,800	14,040		14,040		14,040
1.13 Parking Lot and Play Field Drainage: The drainage for these two areas appears to be inadequate. Conduct storm drainage study.	**1989**	1	LS	30,000.00	30,000	39,000		39,000		39,000
1.14 Septic System and Leaching Field: The system appears to be in working order. Perform routine maintenance.	**1989**	1	LS	5,000.00	5,000	6,500		6,500		6,500
Total							0	1,819,051	10,400	1,829,451
Total Inflated @ 5% for Scope 1, 4% for Scopes 2-3 and Compounded Annually							0	2,213,154	12,653	2,225,807

[1]Total includes Soft Costs (30%): Contingency, Administration and A/E Fees.

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
2. BUILDING ENVELOPE										**HERITAGE SCHOOL**
2.1 Membrane EPDM Roof System: Replace original existing EPDM roof with new PVC roof system.	**1989**	11,000	SF	65.00	715,000	929,500	929,500			929,500
2.2 Standing Seam Metal Roof System: Replace original existing metal roof with new PVC roof system.	**1989**	37,000	SF	65.00	2,405,000	3,126,500	3,126,500			3,126,500
2.3 Snow Guards: Replace snow guards as part of roofing replacement.	**1989**	500	LF	25.00	12,500	16,250	16,250			16,250
2.4 Skylight: The existing skylight is leaking. Repair and reseal.	**1989**	1	LS	5,000.00	5,000	6,500	6,500			6,500
2.5 Deteriorating CMU Veneer Walls: Remove existing CMU veneer, repair insulation and air & vapor retarder. Install new rainscreen wall cladding system.	**1989**	305,000	SF	100.00	30,500,000	39,650,000		39,650,000		39,650,000
2.6 Exterior Egress Doors and Sidelights: Doors and frames are rusting at bottom. Replace doors and frames	**1989**	5	EA	12,800.00	64,000	83,200		83,200		83,200
2.7 Exterior Doors Weather Stripping: Replace weather stripping, 90% of exterior doors.	**1989**	300	LF	10.00	3,000	3,900		3,900		3,900
2.8 Window Glazing: Repair and replace broken seals at window glazing.	**1989**	500	SF	250.00	125,000	162,500		162,500		162,500
2.9 Window and Door Perimeter Sealants: Remove all deteriorated sealant joints at existing openings and replace with new sealants and backer rods.	**1989**	3,500	LF	15.00	52,500	68,250		68,250		68,250

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
2. BUILDING ENVELOPE										**HERITAGE SCHOOL**
2.10 Masonry Joints Sealants: Remove and replace deteriorated sealants with new sealants and backer rods.	**1989**	1,500	LF	15.00	22,500	29,250		29,250		29,250
2.11 Accessible Concrete Ramp: Replace deteriorating concrete ramp.	**1989**	200	SY	360.00	72,000	93,600	93,600			93,600
2.12 Exterior Stairs: Remove existing stairs and replace with new cast-in-place.	**1989**	1	EA	20,000.00	20,000	26,000		26,000		26,000
2.13 Exterior Handrails: Replace/add new galvanized steel handrails.	**1989**	20	LF	60.00	1,200	1,560			1,560	1,560
2.14 Paint Underside of Exposed Roof Deck: Prepare, prime and paint underside of metal roof deck and beams.	**1989**	2,000	SF	15.00	30,000	39,000		39,000		39,000
2.15 CMU Retaining Wall at Exterior Stair and Ramps: Replace deteriorating retaining walls.	**1989**	140	LF	200.00	28,000	36,400		36,400		36,400
2.16 Greenhouse Structure: Attached greenhouse has extensive waterproofing failure.Greenhouse is no longer in use. Recommend removing in its entirety.	**1989**	1	LS	20,000.00	20,000	26,000		26,000		26,000
Total							4,172,350	40,124,500	1,560	44,298,410
Total Inflated @ 5% for Scope 1, 4% for Scopes 2-3 and Compounded Annually							4,600,016	48,817,589	1,898	53,419,503

[1]Total includes Soft Costs (30%): Contingency, Administration and A/E Fees.

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
3. BUILDING INTERIORS										**HERITAGE SCHOOL**
3.1 Unsightly 2' x 4' ACT Ceilings: Replace sagging / stained suspended acoustic ceiling with new 2' x 4' ceiling system.		19,650	SF	8.00	157,200	204,360		204,360		204,360
3.2 Peeling and damaged paint: Remove existing flaking paint and repaint.		1,600	SF	8.00	12,800	16,640		16,640		16,640
3.3 Unsightly Exposed Entry Ceiling: Remove degrading paint and repaint.		150	SF	15.00	2,250	2,925		2,925		2,925
3.4 Worn Carpet: The original carpet is past its effective useful life. Replace with new carpet.		45,871	SF	6.00	275,226	357,794		357,794		357,794
3.5 VCT Flooring: VCT flooring is worn and beyond its useful life. Remove and install new VCT.		8,000	SF	12.00	96,000	124,800		124,800		124,800
3.6 Ceramic Tile Flooring: Tile flooring is worn or cracked and beyond its useful life. Remove and install new tile floor.		720	SF	20.00	14,400	18,720		18,720		18,720
3.7 Terrazzo Floor: Visible cracks at rear vestibule.		16	LF	5.00	80	104		104		104
3.8 Synthetic Gym Floor: Floor is worn and beyond its useful life. Remove and replace with new flooring.		4,880	SF	25.00	122,000	158,600		158,600		158,600
3.9.1 ADA Toilet Partitions: Install accessible toilet partitions.		10	EA	1,800.00	18,000	23,400			23,400	23,400
3.9.2 Standard Toilet Partitions: Install accessible toilet partitions.		18	EA	1,600.00	28,800	37,440			37,440	37,440
3.9.3 Urinal Screen: Install accessible toilet partitions.		14	EA	650.00	9,100	11,830			11,830	11,830

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
3. BUILDING INTERIORS										**HERITAGE SCHOOL**
3.10 Inadequate Guardrail Design and height: Guardrails are mounted too low and are missing 12" extensions at top and bottom.		112	LF	450.00	50,400	65,520			65,520	65,520
3.11 Sinks in Staff rooms and classrooms not ADA compliant: Remove existing casework and counters at sink. Replace with new casework and countertop providing 30" min. wide kneespace access to sink.		27	EA	3,800.00	102,600	133,380			133,380	133,380
3.12 Interior Doors into stairwells: Damaged door frames do not close or have difficulty closing. Recommend replacing.		4	EA	1,500.00	6,000	7,800		7,800		7,800
Total							0	891,743	271,570	1,163,313
Total Inflated @ 5% for Scope 1, 4% for Scopes 2-3 and Compounded Annually							0	1,084,942	330,406	1,415,348

[1]Total includes Soft Costs (30%): Contingency, Administration and A/E Fees.

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
4. MECHANICAL										**HERITAGE SCHOOL**
4.1 Fire Sprinkler System: Building lacks a fire sprinkler system. Install a fire sprinkler system in all areas.		86,780	SF	8.00	694,240	902,512			902,512	902,512
4.2 Exhaust Fans: Exhaust fans are beyond their useful service life expectancy. Replace existing exhaust fans.	**1987**	6	EA	3,450.00	20,700	26,910	26,910			26,910
4.3 Boilers: Boilers have cracked sections and are beyond their useful service life expectancy. Replace boilers with new.	**1987**	1	LS	800,000	800,000	1,040,000	1,040,000			1,040,000
4.4 Circulator Pumps: Hot water circulating pumps are beyond their useful life expectancy. Replace pumps.	**1987**	4	EA	15,350.00	61,400	79,820	79,820			79,820
4.5 Cooling Tower: Cooling tower is failing. Replace with new unit and pumps.	**1987**	1	LS	250,000	250,000	325,000	325,000			325,000
4.6 Heat Pumps: Heat pumps are failing and beyond useful service life. Replace with new units.	**1987**	67	EA	7,000.00	469,000	609,700	609,700			609,700
4.7 Kitchen Equipment: Equipment is beyond useful service life expectancy. Replace obsolete equipment with new.	**1987**	1	LS	350,000	350,000	455,000		455,000		455,000
4.8 Mechanical Room Tank: Tank is corroded. Replace with new.	**1987**	1	LS	25,000.00	25,000	32,500	32,500			32,500
Total							2,113,930	455,000	902,512	3,471,442
Total Inflated @ 5% for Scope 1, 4% for Scopes 2-3 and Compounded Annually							2,330,608	553,577	1,098,044	3,982,229

[1]Total includes Soft Costs (30%): Contingency, Administration and A/E Fees.

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
5. ELECTRICAL										**HERITAGE SCHOOL**
5.1 Standby Generator: Standby generator is approaching end of useful service life. Replace with new generator and transfer switch.	**1987**	1	LS	150,000	150,000	195,000	195,000			195,000
5.2 Fire Alarm System: Upgrade fire alarm devices, 11 zones.	**1987**	79,550	SF	1.50	119,325	155,123	155,123			155,123
5.3 Paging/Timeclock System: Existing systems are non-integrated, unsynchronized and obsolete. Replace with new integrated system.	**1987**	86,780	SF	5.00	433,900	564,070		564,070		564,070
5.4 Security System: Upgrade security system with integrated electronic security system consisting of intrusion, card access, and CCTV.		86,780	SF	6.50	564,070	733,291		733,291		733,291
Total							350,123	1,297,361	0	1,647,484
Total Inflated @ 5% for Scope 1, 4% for Scopes 2-3 and Compounded Annually							386,011	1,578,438	0	1,964,449

[1]Total includes Soft Costs (30%): Contingency, Administration and A/E Fees.

HERITAGE SCHOOL - SITE



1.1 Heavily deteriorated paving.



1.5 Cracked concrete sidewalk.



1.6 Spalling concrete at exterior stair.



1.7 Create accessible van parking space.



1.8 Exterior handrails with missing extensions.



1.13 Inadequate drainage at lower play field.

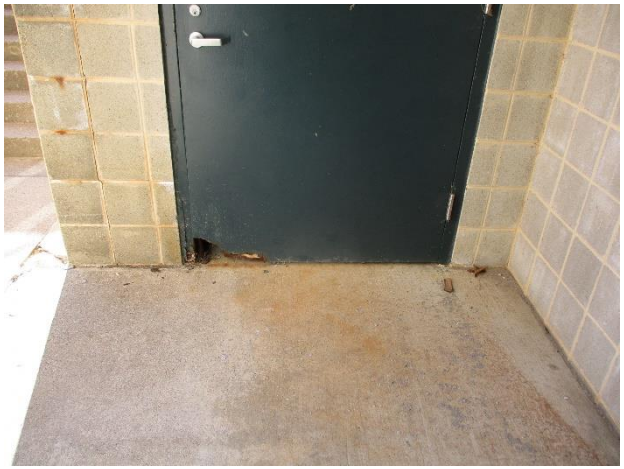
HERITAGE SCHOOL – BUILDING ENVELOPE



2.1 Existing EPDM roofing system.



2.5 Deteriorating CMU Veneer Wall.



2.6 Doors and frames rusting at bottom.



2.8 Window glazing with broken seal.



2.11 Deteriorating concrete ramp.



2.14 Paint underside of exposed roof deck.

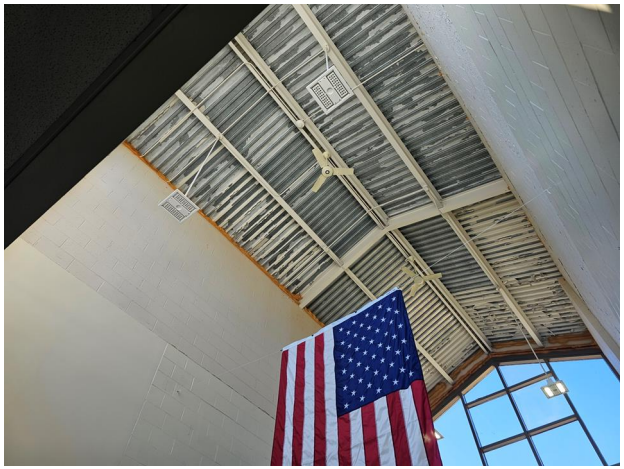
HERITAGE SCHOOL – INTERIOR



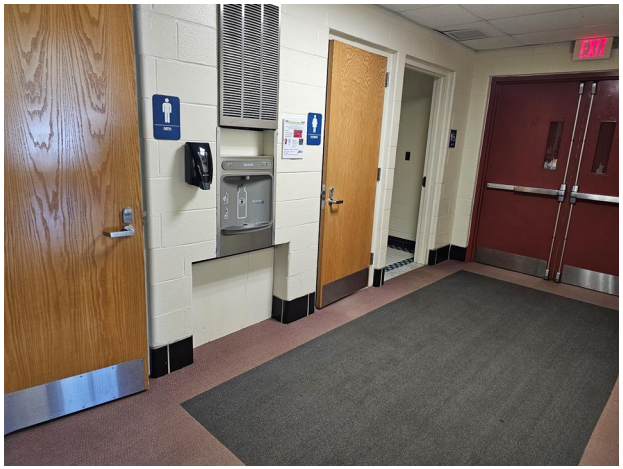
3.1 Stained and sagging ACT Ceiling.



3.2 Unsightly peeling paint at entry.



3.3 Unsightly ceiling at entry.



3.4 Original worn carpet throughout building.



3.5 Worn and lifting VCT.



3.6 Cracked ceramic tile.

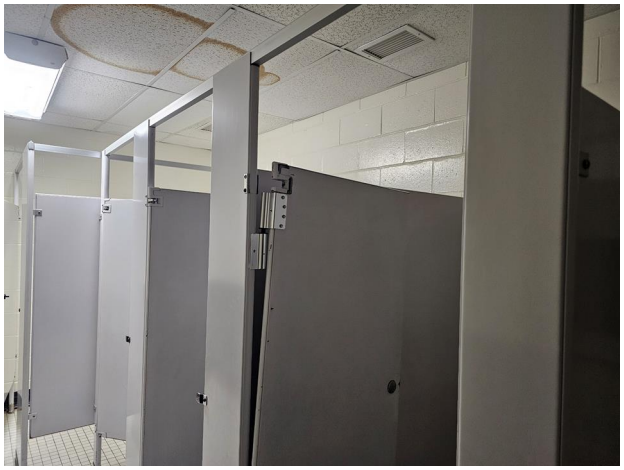
HERITAGE SCHOOL – INTERIOR CONTINUED



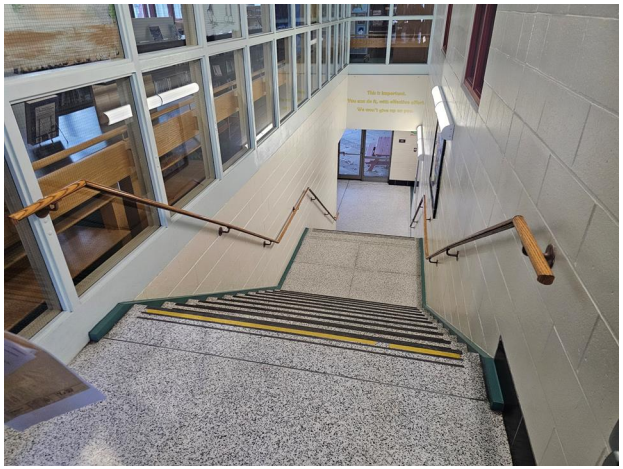
3.7 Cracked terrazzo at rear entry vestibule.



3.8 Deteriorated gym flooring.



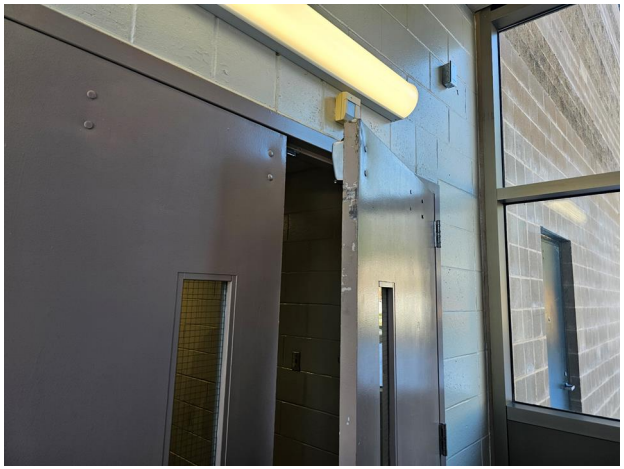
3.9 Degrading toilet partitions.



3.10 Inadequate handrail design.



3.11 Non ADA sinks in classrooms.



3.12 Damaged door frames at stairwells.

HERITAGE SCHOOL – MECHANICAL



4.3 Boilers have cracked sections and are beyond their useful service life expectancy.



4.4 Hot water circulating pumps are beyond their useful life expectancy.



4.5 Cooling tower is failing. Replace with new unit and pumps.



4.7 Replace obsolete kitchen equipment with new.



4.8 Tank is corroded. Replace with new.

HERITAGE SCHOOL – ELECTRICAL



5.1 Standby generator is approaching end of useful service life.



5.3 Existing paging/timeclock systems are non-integrated, unsynchronized and obsolete.

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BUILDING DATA

DUDLEY ELEMENTARY SCHOOL

GENERAL INFORMATION:	
Building:	Dudley Elementary School
Address:	16 School Street, Dudley, MA 01571
Director of Public Facilities:	Joseph Caron
Head Custodian:	Wayne Tower
CODE CLASSIFICATION:	
Occupancy:	Educational
Construction Type:	2B
BUILDING HISTORY:	
Original Building:	circa 1957
Addition:	1999
SITE / BUILDING AREA:	
Site Area:	15.17 Acres
Total Building Area:	86,495 SF
Lower Level Area:	38,125 SF
Ground Floor Area:	48,370 SF
SITE COMPONENTS:	
Parking/Driveways:	Bituminous paving- circular driveway with parking.
Walkways:	Concrete.
Lighting:	LED Light poles along paved drive and parking, light bollards at front, and building mounted light fixtures (2013).
Storm Drainage	Catch basins at paved parking, road, and courtyard. Infiltration field provided on site.
Sanitary System:	6” town sanitary drain.
Play Areas:	Wood and metal playground equipment. 1 Paved playground area. 2 basketball backstops. 2 baseball fields.



ARCHITECTURAL COMPONENTS:	
Foundation:	Reinforced concrete.
Super Structure:	Structural steel.
Floor Structure:	Concrete slab on grade. Wood framing over crawlspace at gymnasium.
Roof Structure:	1 ½” metal deck over steel structure.
Exterior Walls:	8” reinforced concrete masonry w/ 4” brick veneer and 2” insulation.
Roofing:	Single-ply membrane over rigid insulation.
Window Systems:	Aluminum frames w/ insulated glazing or aluminum faced insulated panel.
Exterior Doors	Hollow metal frames with metal door.

BUILDING DATA (CONTINUED)

ARCHITECTURAL COMPONENTS (continued):		MECHANICAL / ELECTRICAL COMPONENTS:	
Interior Doors	Mostly hollow metal frames with metal door.	Water Service:	6” town water service w/ backflow preventer.
Stairs:	Concrete stairs at exterior, concrete filled steel pan at basement.	Domestic Hot Water:	Gas-fired 100 gal. condensing domestic water heater (2019).
Floors:	VCT, Tile, Carpet.	Fire Suppression:	Fully sprinklered.
Interior Walls:	8” concrete masonry units (CMU).	Heating Systems:	Oil-fired hot water boilers (2). 12,000 gal. oil tank. Unit ventilators and radiators (2000). New circulator pumps (2019). (2) air handlers at gymnasium. Automated Logic controls.
Wall Finishes:	Painted CMU.		
Ceiling Finishes:	Mostly ACT with some painted gyp board ceilings.	Cooling Systems:	(3) DX air handlers at office, computer lab, library.
Conveying Systems:	2-stop hydraulic passenger elevator. Wheelchair lift in cafeteria and auditorium.	Electric Service:	800 amp. Switchgear replaced 2000.
		Standby Power:	Diesel generator (2000). Coolers, freezers, egress lighting, exit signs, boilers, pumps, fire alarm.
		Lighting:	T8 and compact fluorescent.
		Fire Alarm:	Addressable system. FACP replaced 2011. Devices replaced 2023.

Category	Scope 1	Scope 2	Scope 3	Total
Building Summary				**Dudley Elementary School**
1. SITE	2,600	798,367	2,600	803,567
2. BUILDING ENVELOPE	4,157,400	708,370	1,560	4,867,330
3. BUILDING INTERIORS	0	326,859	127,530	454,389
4. MECHANICAL	31,200	1,215,435	9,360	1,255,995
5. ELECTRICAL	0	3,632,971	0	3,632,971
[1]Total	4,191,200	6,682,002	141,050	11,014,252
[1]Total Inflated @ 5% for Scope 1, 4% for Scopes 2-3 and Compounded Annually	4,620,798	8,129,677	171,609	12,922,084

[1]Totals include Soft Costs (30%): Contingency, Administration and A/E Fees.

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
1. SITE										**DUDLEY ELEMENTARY SCHOOL**
1.1 Drives and Walks: Paving is cracked and showing its age. Replace bituminous paving on existing base at drives and parking lots.	**2000**	8,722	SY	55.00	479,710	623,623		623,623		623,623
1.2 Bituminous Curbing: Replace bituminous curbing at drives and parking lots.	**2000**	1,500	LF	20.00	30,000	39,000		39,000		39,000
1.3 Precast Concrete Curbs: Remove and replace deteriorated concrete curb at various locations throughout the site.	**2000**	36	LF	30.00	1,080	1,404		1,404		1,404
1.4 Granite Curbing: Existing granite curbs are generally in good condition. Some sections need to be replaced/reset.	**2000**	18	LF	41.00	738	960		960		960
1.5 Concrete sidewalks Concrete sidewalks are generally in good condition. Some areas need to be patched/repaired.	**2000**	40	SF	90.00	3,600	4,680		4,680		4,680
1.6 Catch Basin / Manhole: Some catch basins and manholes are in poor condition and need to be rebuilt.	**2000**	2	EA	5,000.00	10,000	13,000		13,000		13,000
1.7 Catch Basin / Manhole: Some catch basin / manhole are in fair condition but need adjustment.	**2000**	5	EA	2,500.00	12,500	16,250		16,250		16,250
1.8 Storm Drainage: Storm drainage appears to be inadequate. Report of overflow and flooding in the classroom. Conduct storm drainage study.	**2000**	1	LS	20,000.00	20,000	26,000		26,000		26,000
1.9 Accessible Entrance Approach: Existing ramp needs minor patching/repair.	**2000**	1	LS	2,000.00	2,000	2,600			2,600	2,600

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
1. SITE									**DUDLEY ELEMENTARY SCHOOL**	
1.10 Site Lighting: Existing site lighting is in good condition. Minor repairs may be required.	**2000**	1	EA	6,000.00	6,000	7,800		7,800		7,800
1.11 Fencing: Chain link fencing around play areas in good condition. Provide poison ivy control.	**2000**	1	LS	500.00	500	650		650		650
1.12 Wood Fiber Playground Surfacing: Wood mulch is compacted and depleted. Remove and replace with poured in place rubber surfacing.		1,000	SY	50.00	50,000	65,000		65,000		65,000
1.13 Drainage at Exterior Door: Drainage at the exterior door at the ramp appears to be clogged. It was reported that water leaked into the classroom. Recommendation is to snake the drain and clear the clog.	**2000**	1	LS	2,000.00	2,000	2,600	2,600			2,600
Total							2,600	798,367	2,600	803,567
Total Inflated @ 5% for Scope 1, 4% for Scopes 2-3 and Compounded Annually							2,867	971,336	3,163	977,365

[1]Total includes Soft Costs (30%): Contingency, Administration and A/E Fees.

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
2. BUILDING ENVELOPE									**DUDLEY ELEMENTARY SCHOOL**	
2.1 PVC Roofs: The existing PVC roof is at the end of its life expectancy. There is significant ponding throughout the roof areas. Replace with new PVC roofing system.	**2000**	49,200	SF	65.00	3,198,000	4,157,400	4,157,400			4,157,400
2.2 Brick Masonry Mortar Joints: Mortar joints are failing in some areas. Repoint brick masonry walls.		600	SF	45.00	27,000	35,100		35,100		35,100
2.3 Damaged Brick Walls: Replace cracked bricks.		400	SF	100.00	40,000	52,000		52,000		52,000
2.4 Staining, Efflorescence and Moss: Power wash and clean at various locations of the masonry veneer wall, approximately 40% to 50% of 20,400 SF.		10,000	SF	15.00	150,000	195,000		195,000		195,000
2.5 Deteriorating Steel Lintels: Replace rusting steel lintels**.**		50	LF	500.00	25,000	32,500		32,500		32,500
2.6 Rust Steel Lintels: Paint all steel lintels on the exterior wall.		4,700	SF	15.00	70,500	91,650		91,650		91,650
2.7 Exterior Egress Doors: Some doors and frames are rusting at the bottom. Replace doors and frames**.**	**2000**	2	EA	3,300.00	6,600	8,580		8,580		8,580
2.8 Exterior Doors Weather Stripping: Replace weather stripping on exterior doors.	**2000**	200	EA	10.00	2,000	2,600		2,600		2,600
2.9 Window glazing: Existing windows are in fair condition. Some units need to be reglazed or replaced.	**2000**	50	SF	250.00	12,500	16,250		16,250		16,250

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
2. BUILDING ENVELOPE									**DUDLEY ELEMENTARY SCHOOL**	
2.10 Glass Block: Existing glass blocks at the gym are leaking. Replace all with aluminum window system.		470	SF	250.00	117,500	152,750		152,750		152,750
2.11 Window and Door Perimeter Sealants: Remove and replace deteriorated sealant joints with new sealant and backer rods.	**2000**	4,700	LF	15.00	70,500	91,650		91,650		91,650
2.12 Masonry Joints Sealants: Remove all deteriorated masonry sealant joints and replace with new sealant and backer rod.	**2000**	420	LF	15.00	6,300	8,190		8,190		8,190
2.13 Concrete Ramp: Minor patch/repair of spalling concrete ramp.	**2000**	1	LS	1,000.00	1,000	1,300		1,300		1,300
2.14 Concrete Loading Dock: Loading dock is in fair condition. Minor patching/repair.		1	LS	1,000.00	1,000	1,300		1,300		1,300
2.15 Exterior Stairs: Remove one existing stair and replace with new cast-in-place reinforced concrete stair with frost-protected footings.	**2000**	1	EA	15,000.00	15,000	19,500		19,500		19,500
2.16 Exterior Handrails: Replace/add new galvanized steel handrails.	**2000**	20	LF	60.00	1,200	1,560			1,560	1,560
Total							4,157,400	708,370	1,560	4,867,330
Total Inflated @ 5% for Scope 1, 4% for Scopes 2-3 and Compounded Annually							4,583,534	861,840	1,898	5,447,272

[1]Total includes Soft Costs (30%): Contingency, Administration and A/E Fees.

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
3. BUILDING INTERIORS									**DUDLEY ELEMENTARY SCHOOL**	
3.1 Unsightly 2' x 4' SAT Ceilings: Replace sagging / stained suspended acoustic ceiling with new 2' x 4' ceiling system.		5,700	SF	8.00	45,600	59,280		59,280		59,280
3.2 Unsightly Gym Ceiling: Remove old paint and repaint.		5,300	SF	3.00	15,900	20,670		20,670		20,670
3.3 Cracking Masonry: Patch and repoint cracks and joints as needed.		142	LF	45.00	6,390	8,307		8,307		8,307
3.4 Worn Carpet: The original carpet is past its effective useful life. Replace with new carpet.		30,550	SF	6.00	183,300	238,290		238,290		238,290
3.5 VCT Flooring: Portion of existing VCT flooring is cracked, replace.		20	SF	12.00	240	312		312		312
3.6 Urinal Screen: Install accessible toilet fixtures.		6	EA	650.00	3,900	5,070			5,070	5,070
3.7 Sinks in Staff and classrooms not ADA compliant: Remove existing casework and counters at sink. Replace with new casework and countertop providing 30" min. wide knee space access to sink.		24	EA	3,800.00	91,200	118,560			118,560	118,560
3.8 General Office Door: Remove existing door leaves and replace with unequal pair to meet accessibility requirements.		1	EA	3,000.00	3,000	3,900			3,900	3,900
Total							0	326,859	127,530	454,389
Total Inflated @ 5% for Scope 1, 4% for Scopes 2-3 and Compounded Annually							0	397,674	155,160	552,834

[1]Total includes Soft Costs (30%): Contingency, Administration and A/E Fees.

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
4. MECHANICAL										**DUDLEY ELEMENTARY SCHOOL**
4.1 Back-flow Preventers at Chemical Mixers: Chemical mixers in janitorial closets are required to have backflow preventers.	**2000**	2	EA	500.00	1,000	1,300	1,300			1,300
4.2 Variable Frequency Drives (VFDs): VFDs are obsolete technology. Replace with new.	**2000**	7	EA	10,000.00	70,000	91,000		91,000		91,000
4.3 Art Room Sinks: Sinks at Art Room are non-accessible. Replace with accessible sinks.	**2000**	4	EA	1,800	7,200	9,360			9,360	9,360
4.4 Building Management System: Facility lacks integrated HVAC controls and energy management system. Provide fully integrated BMS.	**2000**	86,495	SF	10.00	864,950	1,124,435		1,124,435		1,124,435
4.5 Kitchen Grease Trap: 1500 gal. precast concrete grease trap is failing. Remove and replace grease trap.	**2000**	1	LS	20,000.00	20,000	26,000	26,000			26,000
4.6 Chimney Cap: Chimney currently does not have a cap allowing water intrusion in boiler room. Add cap.		1	EA	3,000.00	3,000	3,900	3,900			3,900
Total							31,200	1,215,435	9,360	1,255,995
Total Inflated @ 5% for Scope 1, 4% for Scopes 2-3 and Compounded Annually							34,398	1,478,763	11,388	1,524,548

[1]Total includes Soft Costs (30%): Contingency, Administration and A/E Fees.

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
5. ELECTRICAL									**DUDLEY ELEMENTARY SCHOOL**	
5.1 Fluorescent Lighting: T8 parabolic and CFL lighting is inefficient. Replace with LED.	**2000**	86,495	SF	20.00	1,729,900	2,248,870		2,248,870		2,248,870
5.2 Phone System: Phone system is obsolete technology. Upgrade system with VOIP.	**2000**	40	EA	500.00	20,000	26,000		26,000		26,000
5.3 Paging/Timeclock System: Existing systems are non-integrated, unsynchronized and obsolete. Replace with new integrated system.	**2000**	86,495	SF	5.00	432,475	562,218		562,218		562,218
5.4 Security System: Upgrade security system with integrated electronic security system consisting of intrusion, card access, and CCTV.	**2000**	86,495	SF	6.50	562,218	730,883		730,883		730,883
5.5 Theatrical Lighting: Incandescent lighting is excessively hot and not used. Replace with LED system.	**2000**	1	LS	50,000.00	50,000	65,000		65,000		65,000
Total							0	3,632,971	0	3,632,971
Total Inflated @ 5% for Scope 1, 4% for Scopes 2-3 and Compounded Annually							0	4,420,065	0	4,420,065

[1]Total includes Soft Costs (30%): Contingency, Administration and A/E Fees.

DUDLEY ELEMENTARY SCHOOL - SITE



1.1 Paving is cracked and showing its age.



1.3 Remove and replace deteriorated curb.



1.6 Basin / manhole are in poor condition and need to be rebuilt.



1.9 Existing ramp need minor patch / repair.



1.12 Existing mulch filled playground is not accessible and in poor condition.



1.13 Drainage at the exterior door at the ramp appears to be clogged

DUDLEY ELEMENTARY SCHOOL – BUILDING ENVELOPE



2.1 The existing PVC roof is at the end of its life expectancy.



2.2 Mortar joints are failing in some areas.



2.3 Damaged brick veneer.



2.4 Staining, Efflorescence and Moss.



2.10 Damaged glass block.

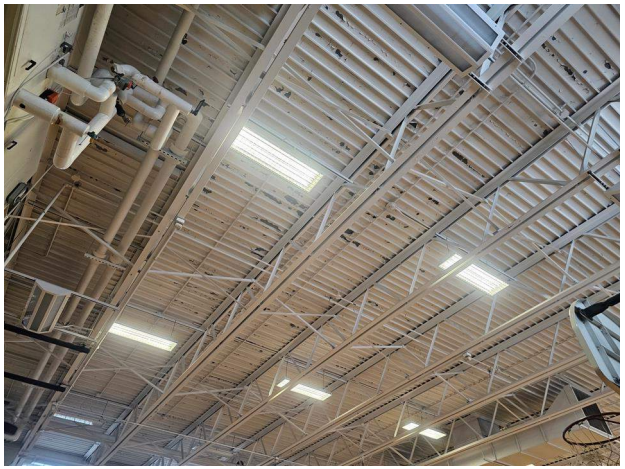


2.15 Exterior concrete stair deteriorating.

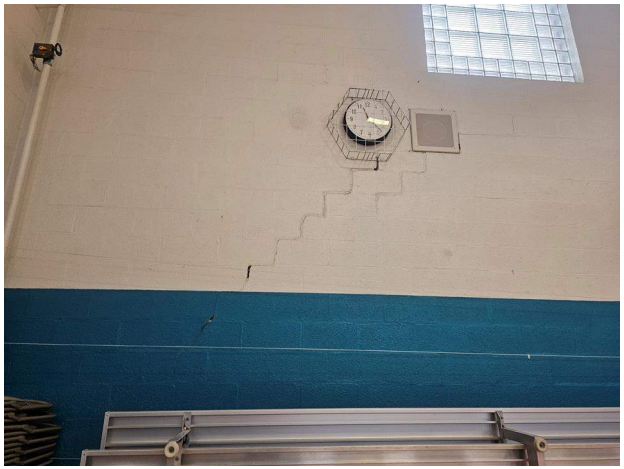
DUDLEY ELEMENTARY SCHOOL – INTERIOR



3.1 Stained SAT ceiling panels.



3.2 Peeling paint at gym ceiling.



3.3 Cracking at masonry wall.



3.5 Crack in VCT flooring.



3.6 Urinal screens missing.



3.7 Existing casework at sink does not meet accessibility requirements.

DUDLEY ELEMENTARY SCHOOL – MECHANICAL



4.2 VFDs are obsolete technology. Replace with new.



4.3 Sinks at Art Room are non-accessible. Replace with accessible sinks.



4.4 Facility lacks integrated HVAC controls. Provide fully integrated BMS.



4.6 Chimney lacks a cap allowing water intrusion in boiler room.

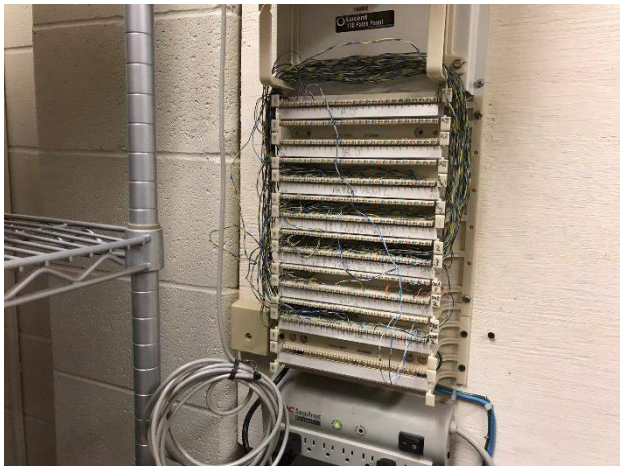


4.6 Chimney lacks a cap allowing water intrusion in boiler room.

DUDLEY ELEMENTARY SCHOOL – ELECTRICAL



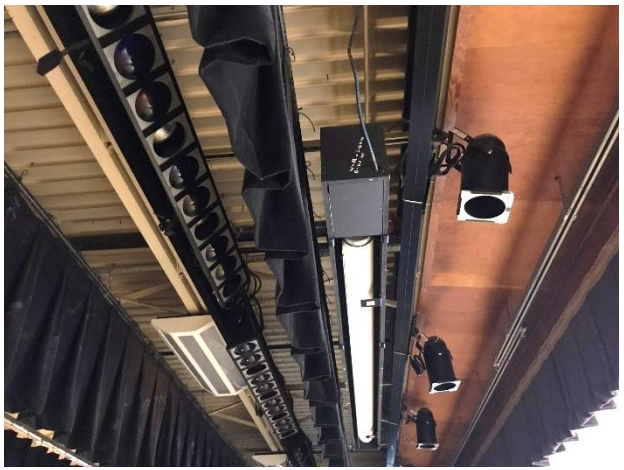
5.1 T8 parabolic lighting is inefficient. Replace with LED.



5.2 Phone system is obsolete technology. Upgrade system with VOIP.



5.3 Existing paging/timeclock systems are non-integrated, unsynchronized and obsolete.



5.5 Incandescent lighting is excessively hot and not used. Replace with LED system.

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BUILDING DATA

CHARLTON MIDDLE SCHOOL

GENERAL INFORMATION:	
Building:	Charlton Middle School
Address:	2 Oxford Road, Charlton, MA. 01507
Director of Public Facilities:	Joseph Caron
Head Custodian:	James Rivera
CODE CLASSIFICATION:	
Occupancy:	Educational
Construction Type:	Type 2B
BUILDING HISTORY:	
Original Building:	1999
Addition:	N/A
SITE / BUILDING AREA:	
Site Area:	87.10 Acres (Lot combined with Heritage School 135.48 Acres)
Total Building Area:	204,203 SF
Lower Level Area:	156,247 SF
First Floor Area:	44,236 SF
2nd Floor Area:	3,720 SF
SITE COMPONENTS:	
Parking/Driveways:	Bituminous paving- circular driveway at front surrounding parking lot and circular paving surrounding school.
Walkways:	Concrete walkways.
Lighting:	LED light poles and building mounted fixtures.
Storm Drainage	Manholes and catch basins located around building and in parking lot.
Sanitary System:	Septic system with ejector pump.
Play Areas:	1 soccer field, 1 baseball field, 1 softball field, 2 tennis courts, 1 basketball court.
Irrigation:	Landscape areas in front of building and soccer fields irrigated. Two irrigation pumps are located in pump house.



ARCHITECTURAL COMPONENTS:	
Foundation:	4-6” reinforced concrete slab on grade.
Super Structure:	Structural steel.
Floor Structure:	4” Structural concrete slab on 1 ½” deck.
Roof Structure:	Low slope roofing sloping to drains, on metal deck on steel structure.
Exterior Walls:	8” reinforced concrete masonry units (CMU) with insulation layer and brick masonry veneer.
Roofing:	90 mil EPDM roof, over HD coverboard and rigid insulation and 1 ½” metal deck. Replaced 2024.
Window Systems:	Prefinished aluminum windows with insulated glazing.
Exterior Doors	Hollow metal frames with metal doors.
Interior Doors	Hollow metal frames with 50% metal and 50%solid wood doors.

BUILDING DATA (CONTINUED)

ARCHITECTURAL COMPONENTS:		MECHANICAL / ELECTRICAL COMPONENTS:	
Stairs:	Concrete filled steel pan.	Water Service:	Town water.
Floors:	Carpet, VCT, terrazzo.	Domestic Hot Water:	Indirect domestic hot water heater supplied by (1) of (3) boilers. (3) storage tanks.
Interior Walls:	6-8" CMU.	Fire Suppression:	Building is protected with wet-type automatic sprinklers and fire pump fed from 100,000 Gallon on site storage tank to supplement low supply from city.
Wall Finishes:	Paint over CMU.		
Ceiling Finishes:	Mostly ACT, some gyp board ceilings.	Heating Systems:	(2) oil-fired hot water boilers with (1) standby boiler. Unit ventilators at classrooms. Circulation pumps equipped with VFDs. Gymnasium, Auditorium, Media, Cafeteria and Music department heated with air handling units (AHUs). 12,000 Gallon below ground oil tank.
Conveying Systems:	2 hydraulic passenger elevators.		
		Cooling Systems:	Chiller and cooling tower. Unit ventilators at classrooms. Gymnasium, Auditorium, Media, Cafeteria and Music department cooled with AHUs.
		Electric Service:	1200 amp service.
		Standby Power:	Diesel standby generator with 275 gallon tank serves egress lighting, boilers, fire pump, freezers, refrigerators, and ovens.
		Lighting:	Fluorescent. LED replacement lighting pending.
		Fire Alarm:	FACP replaced 2020. Fire alarm devices being replaced on an ongoing basis, approximately 90% complete.
		Security:	Avigilon system with CCTV, video intercom w/ access control.

Category	Scope 1	Scope 2	Scope 3	Total
Building Summary				**Charlton Middle School**
1. SITE	2,572,700	257,985	10,400	2,841,085
2. BUILDING ENVELOPE	118,560	413,920	0	532,480
3. BUILDING INTERIORS	0	889,807	373,880	1,263,687
4. MECHANICAL	2,039,245	2,654,639	28,080	4,721,964
5. ELECTRICAL	0	3,092,486	0	3,092,486
[1]Total	4,730,505	7,308,837	412,360	12,451,702
[1]Total Inflated @ 5% for Scope 1, 4% for Scopes 2-3 and Compounded Annually	5,215,382	8,892,318	501,699	14,609,399

[1]Totals include Soft Costs (30%): Contingency, Administration and A/E Fees.

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
1. SITE										**CHARLTON MIDDLE SCHOOL**
1.1 Drives and Walks: Paving is cracked and heavily deteriorated with potholes and heaves. Replace Bituminous Paving and base.	**1998**	30,600	SY	55.00	1,683,000	2,187,900	2,187,900			2,187,900
1.2 Granite Curbing: Existing granite curbs are in good condition. Some sections need replaced/reset.	**1998**	50	LF	41.00	2,050	2,665		2,665		2,665
1.3 Bituminous Curbing: Bituminous curbing is damaged. Replace bituminous curbing at parking lots.	**1998**	14,800	LF	20.00	296,000	384,800	384,800			384,800
1.4 Bituminous Sidewalks: Bituminous sidewalks are deteriorated and cracked. Replace with new bituminous sidewalks.	**1998**	1,700	SY	50.00	85,000	110,500		110,500		110,500
1.5 Concrete Sidewalks: Remove and replace deteriorated sections of the concrete sidewalks.	**1998**	300	SY	90.00	27,000	35,100		35,100		35,100
1.6 Catch Basin / Manhole: Some catch basins/manholes are in fair condition but need adjustment.	**1998**	10	EA	2,500.00	25,000	32,500		32,500		32,500
1.7 Accessible Parking Identification: Add missing or replace broken signage at accessible parking spaces**.**	**1998**	16	EA	500.00	8,000	10,400			10,400	10,400
1.8 Drainage Issue at Parking lot: The drainage appears to be inadequate. The maintenance staff indicated snow/ice build-up. This could accelerate the deterioration of the bituminous parking lot. Conduct storm drainage study.	**1998**	1	LS	20,000.00	20,000	26,000		26,000		26,000

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
1. SITE										**CHARLTON MIDDLE SCHOOL**
1.9 Drainage Issue at Unenclosed Courtyard: The existing grade does not provide enough slope to drain away from the building. Install a French drain along the perimeter wall and drain to a retention pond.	**1998**	1	LS	30,000.00	30,000	39,000		39,000		39,000
1.10 Fencing: Fencing is generally in good condition. Some sections need repair/replacement.		200	LF	47.00	9,400	12,220		12,220		12,220
Total							2,572,700	257,985	10,400	2,841,085
Total Inflated @ 5% for Scope 1, 4% for Scopes 2-3 and Compounded Annually							2,836,402	313,878	12,653	3,162,933

[1]Total includes Soft Costs (30%): Contingency, Administration and A/E Fees.

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
2. BUILDING ENVELOPE									**CHARLTON MIDDLE SCHOOL**	
2.1 Staining and Efflorescence: Power wash and clean at various locations of the masonry veneer wall, approximately 5% to 10% of 65,200 SF total.	**1998**	6,520	SF	15.00	97,800	127,140		127,140		127,140
2.2 Exterior Egress Doors: Some doors and frames are rusting at the bottom. Replace doors and frames.	**1998**	5	EA	3,300.00	16,500	21,450		21,450		21,450
2.3 Exterior Doors Weather Stripping: Replace weather stripping on exterior doors.	**1998**	300	LF	12.00	3,600	4,680		4,680		4,680
2.4 Window glazing: Existing windows are in fair condition. Some units need reglazing or replacement.	**1998**	100	SF	250.00	25,000	32,500		32,500		32,500
2.5 Window and Door Perimeter Sealants: Remove and replace failing sealant joints with new sealants and backer rods.	**1998**	5,500	LF	15.00	82,500	107,250		107,250		107,250
2.6 Masonry Joints Sealants: Remove and replace failing sealant joints with new sealants and backer rods.	**1998**	6,200	LF	15.00	93,000	120,900		120,900		120,900

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
2. BUILDING ENVELOPE									**CHARLTON MIDDLE SCHOOL**	
2.7 Water Infiltration at Masonry Wall: It was reported that the leak occurred during a wind-driven rain. Per existing details, the wind-driven rain appears to enter the wall at the louver and drops or travels along the perimeter beam before dropping at a low point. Replace louver with storm resistant louver.	**1998**	76	EA	1,200.00	91,200	118,560	118,560			118,560
Total							118,560	413,920	0	532,480
Total Inflated @ 5% for Scope 1, 4% for Scopes 2-3 and Compounded Annually							130,712	503,597	0	634,309

[1]Total includes Soft Costs (30%): Contingency, Administration and A/E Fees.

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
3. BUILDING INTERIORS									**CHARLTON MIDDLE SCHOOL**	
3.1 Unsightly 2' x 4' ACT Ceilings: Replace sagging / stained suspended acoustic ceiling with new 2' x 4' ceiling system in kitchen.		2,200	SF	8.00	17,600	22,880		22,880		22,880
3.2 Unsightly Gym Ductwork: Existing paint is flaking off. Repaint.		3,200	SF	3.00	9,600	12,480		12,480		12,480
3.3 Worn Carpet: The original carpet is past its effective useful life. Replace with new carpet.	**1998**	81,405	SF	6.00	488,430	634,959		634,959		634,959
3.4 VCT Flooring: VCT flooring is worn and has begun lifting in some places. Remove and install new VCT.	**1998**	4,047	SF	12.00	48,564	63,134		63,134		63,134
3.5 Terrazzo Floor: Existing Terrazzo Floor is Cracked. Patch and repair**.**	**1998**	34	SF	8.00	272	354		354		354
3.6 Classroom AV Equipment: Classrooms use outdated CRT screens. Recommend replacing.	**1998**	60	EA	2,000	120,000	156,000		156,000		156,000
3.7.1 Accessible Toilet Partitions: Existing toilet partitions are significantly deteriorated. Recommend replacing.	**1998**	12	EA	1,800.00	21,600	28,080			28,080	28,080
3.7.2 Standard toilet partitions: Existing toilet partitions are significantly deteriorated. Recommend replacing.	**1998**	22	EA	1,600.00	35,200	45,760			45,760	45,760
3.7.3 Urinal Screens: Existing urinal partitions are significantly deteriorated and do not meet existing requirements. Recommend replacing.	**1998**	16	EA	650.00	10,400	13,520			13,520	13,520

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
3. BUILDING INTERIORS									**CHARLTON MIDDLE SCHOOL**	
3.8 Interior Casework and Sinks: Most sinks in staff locations and classrooms do not meet ADA requirements. Modify existing casework at these locations to meet requirements and replace existing sink with new sink.	**1998**	58	EA	3,800.00	220,400	286,520			286,520	286,520
Total							0	889,807	373,880	1,263,687
Total Inflated @ 5% for Scope 1, 4% for Scopes 2-3 and Compounded Annually							0	1,082,586	454,882	1,537,468

[1]Total includes Soft Costs (30%): Contingency, Administration and A/E Fees.

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
4. MECHANICAL									**CHARLTON MIDDLE SCHOOL**	
4.1 Exhaust Fans: Rooftop Exhaust fans are beyond expected useful service life. Replace exhaust fans.	**1999**	30	EA	3,450.00	103,500	134,550	134,550			134,550
4.2 Back-flow Preventers at Chemical Mixers: Chemical mixers in janitorial closets are required to have backflow preventers.	**1999**	6	EA	500.00	3,000	3,900	3,900			3,900
4.3 Inaccessible Drinking Fountains in Gym: Install accessible drinking fountains.	**1998**	4	EA	5,400.00	21,600	28,080			28,080	28,080
4.4 Boilers: All boilers have replacement sections and are approaching end of expected useful service life. Replace existing boilers.	**1999**	1	LS	1,200,000	1,200,000	1,560,000	1,560,000			1,560,000
4.5 Circulating Pumps: Circulating pumps are approaching end of expected useful service life. Replace pumps.	**1999**	9	EA	15,350.00	138,150	179,595	179,595			179,595
4.6 ACCU-1: Air Cooled Condensing Unit is failing and beyond end of useful service life. Replace unit.	**1999**	1	LS	15,000.00	15,000	19,500	19,500			19,500
4.7 ACCU-2: Air Cooled Condensing Unit is failing and beyond end of useful service life. Replace unit.	**1999**	1	LS	16,000.00	16,000	20,800	20,800			20,800
4.8 ACCU-3: Air Cooled Condensing Unit is failing and beyond end of useful service life. Replace unit.	**1999**	1	LS	6,500.00	6,500	8,450	8,450			8,450
4.9 ACCU-4: Air Cooled Condensing Unit is failing and beyond end of useful service life. Replace unit.	**1999**	1	LS	30,000.00	30,000	39,000	39,000			39,000

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
4. MECHANICAL									**CHARLTON MIDDLE SCHOOL**	
4.10 ACCU-5: Air Cooled Condensing Unit is failing and beyond end of useful service life. Replace unit.	**1999**	1	LS	25,000.00	25,000	32,500	32,500			32,500
4.11 Building Management System: Facility lacks integrated HVAC controls and energy management system. Provide fully integrated BMS.	**1999**	204,203	SF	10.00	2,042,030	2,654,639		2,654,639		2,654,639
4.12 Fire Pump: Water pressure is inadequate. Replace pump.	**1999**	1	LS	50,000	50,000	65,000	65,000			65,000
4.13 Fire Protection Storage Tank: Tank is failing. Replace tank.	**1999**	1	LS	75,000	75,000	97,500	97,500			97,500
4.14 Elevator: Replace faulty safety switch.	**1999**	1	LS	10,000	10,000	13,000	13,000			13,000
Total							2,039,245	2,654,639	28,080	4,721,964
Total Inflated @ 5% for Scope 1, 4% for Scopes 2-3 and Compounded Annually							2,248,268	3,229,774	34,164	5,512,205

[1]Total includes Soft Costs (30%): Contingency, Administration and A/E Fees.

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
5. ELECTRICAL									**CHARLTON MIDDLE SCHOOL**	
5.1 Phone System: Phone system is obsolete technology. Upgrade system with VOIP.	**1999**	61	EA	500.00	30,500	39,650		39,650		39,650
5.2 Security System: Upgrade security system with integrated electronic security system consisting of intrusion, card access, and CCTV.	**1999**	204,203	SF	6.50	1,327,320	1,725,516		1,725,516		1,725,516
5.3 Paging/Timeclock System: Existing systems are non-integrated, unsynchronized and obsolete. Replace with new integrated system.	**1999**	204,203	SF	5.00	1,021,015	1,327,320		1,327,320		1,327,320
Total							0	3,092,486	0	3,092,486
Total Inflated @ 5% for Scope 1, 4% for Scopes 2-3 and Compounded Annually							0	3,762,482	0	3,762,482

[1]Total includes Soft Costs (30%): Contingency, Administration and A/E Fees.

CHARLTON MIDDLE SCHOOL - SITE



1.1 Cracked and heavily deteriorated paving.



1.5 Deteriorated concrete sidewalk.



1.6 Sinking Manhole.



1.7 Missing signage at accessible parking spaces.



1.8 Drainage Issue at Parking lot.



1.9 Drainage Issue at Unenclosed Courtyard.

CHARLTON MIDDLE SCHOOL – BUILDING ENVELOPE



2.1 Staining and Efflorescence.



2.2 Door and frame are rusting at the bottom.



2.5 Failing perimeter sealant joint.



2.6 Failing masonry sealant joint.



2.7 Water infiltration at the louver.



2.7 Water infiltration at the louver, staining ACT ceiling.

CHARLTON MIDDLE SCHOOL – INTERIOR



3.2 Peeling paint at ductwork in gym, recommend repainting.



3.3 Original carpet lifting and bunching throughout school.



3.4 Lifting VCT tiles In stairwells.



3.5 Significant cracking at terrazzo floor in entry way.



3.7 Deteriorated toilet partitions and non-compliant urinal screens.



3.8 Non ADA compliant sinks in staff areas and classrooms.

CHARLTON MIDDLE SCHOOL – MECHANICAL



4.4 All boilers have replacement sections and are approaching end of useful service life.



4.5 Circulating pumps are approaching end of expected useful service life.



4.6 Air Cooled Condensing Units are failing and beyond end of useful service life.



4.11 Facility lacks integrated HVAC controls and energy management system.



4.12 Fire pump water pressure is inadequate. Replace pump.



4.13 Fire Protection Storage Tank is failing and needs replacement.

CHARLTON MIDDLE SCHOOL – ELECTRICAL



5.1 Phone system is obsolete technology. Upgrade system with VOIP.



5.2 Upgrade security system with integrated electronic system consisting of intrusion, card access, and CCTV.



5.3 Existing paging/timeclock systems are non-integrated and obsolete.

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BUILDING DATA

DUDLEY MIDDLE SCHOOL

GENERAL INFORMATION:	
Building:	Dudley Middle School
Address:	70 Dudley Oxford Road, Dudley, MA 01571
Director of Public Facilities:	Joseph Caron
Head Custodian:	Mark Andre
CODE CLASSIFICATION:	
Occupancy:	Educational
Construction Type:	Type 2B
BUILDING HISTORY:	
Original Building:	1999
Addition:	N/A
SITE / BUILDING AREA:	
Site Area:	90.39 Acres (Lot combined with Shepherd Hill Regional HS)
Total Building Area:	99,118 SF
Lower Level Area:	19,294 SF
First Floor Area:	58,841 SF
2nd Floor Area:	20,983 SF
SITE COMPONENTS:	
Parking/Driveways:	Bituminous paving circular driveway at front surrounding parking lot.
Walkways:	Concrete walkways.
Lighting:	LED light poles and building mounted fixtures.
Storm Drainage	Manholes and catch basins located around building and in parking lot.
Sanitary System:	Town Sewer.
Play Areas:	Soccer and softball fields.



ARCHITECTURAL COMPONENTS:	
Foundation:	4” reinforced concrete slab on grade.
Super Structure:	Structural steel.
Floor Structure:	4” Structural concrete slab on 1 ½” deck.
Roof Structure:	Low slope roofing sloping to drains, on metal deck on steel structure.
Exterior Walls:	8” reinforced concrete masonry units (CMU) with insulation layer and brick masonry veneer.
Roofing:	Single ply roof membrane over HD coverboard and rigid insulation and 1 ½” metal deck.
Window Systems:	Prefinished aluminum windows with insulated glazing.
Exterior Doors	Hollow metal frames with metal doors.

BUILDING DATA (CONTINUED)

ARCHITECTURAL COMPONENTS:		MECHANICAL / ELECTRICAL COMPONENTS:	
Interior Doors	Hollow metal frames with 50% metal and 50% solid wood doors.	Water Service:	Town water. On site water storage tank supplied by well pump, booster pumps and filtration system.
Stairs:	Concrete filled steel pan.	Domestic Hot Water:	(2) 80 gal. indirect hot water storage tanks.
Floors:	Carpet, VCT, terrazzo.	Fire Suppression:	Building is protected with wet-type automatic sprinklers. Detached pump house with diesel fire pump and 100,000 gal. storage tank.
Interior Walls:	6-8" CMU.	Heating Systems:	(2) Oil-fired boilers (1999). Propane unit heater at pump house. Unit ventilators at classrooms and fan coil units. Gymnasium, Auditorium, Media, Cafeteria, Music, Locker Rooms, Offices heated with air handling units (AHUs). 12,000 Gallon below ground oil tank. VFDs on pumps.
Wall Finishes:	Paint over CMU.		
Ceiling Finishes:	Mostly ACT, some gyp board ceilings.		
Conveying Systems:	1 hydraulic passenger elevator.	Cooling Systems:	Chiller. Cooling tower (replaced 2018). Unit ventilators at classrooms and fan coil units. Split system AC at computer room (2022). Gymnasium, Auditorium, Media, Cafeteria, Music, Locker Rooms, Offices cooled with air handling units (AHUs).
		Electric Service:	800 amp service.
		Standby Power:	Diesel standby generator serves egress lighting, boilers, fire pump, freezers, refrigerators, and ovens.
		Lighting:	LED First and Third Floor, Gymnasium, Canopy. T8 fluorescent other areas.
		Fire Alarm:	FACP replaced 2022. All fire alarm devices replaced 2024. Pump house FACP (1999).
		Security:	Avigilon system with CCTV, video intercom w/ access control.

Category	Scope 1	Scope 2	Scope 3	Total
Building Summary				**Dudley Middle School**
1. SITE	0	1,911,411	2,600	1,914,011
2. BUILDING ENVELOPE	0	961,675	0	961,675
3. BUILDING INTERIORS	2,730	461,188	195,780	659,698
4. MECHANICAL	1,428,960	1,288,534	28,080	2,745,574
5. ELECTRICAL	28,600	2,069,623	0	2,098,223
[1]Total	1,460,290	6,692,431	226,460	8,379,181
[1]Total Inflated @ 5% for Scope 1, 4% for Scopes 2-3 and Compounded Annually	1,609,970	8,142,366	275,523	10,027,859

[1]Totals include Soft Costs (30%): Contingency, Administration and A/E Fees.

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
1. SITE										**DUDLEY MIDDLE SCHOOL**
1.1 Drives and Walks: Paving is cracked and heavily deteriorated with potholes and heaves. Replace bituminous paving and base.	**1998**	19,000	SY	55.00	1,045,000	1,358,500		1,358,500		1,358,500
1.2 Granite Curbing: Existing granite curbs are in good condition. Some sections need to be replaced/reset.	**1998**	96	LF	41.00	3,936	5,117		5,117		5,117
1.3 Bituminous Curbing: Bituminous curbing is damaged. Replace bituminous curbing at parking lots.	**1998**	8,100	LF	20.00	162,000	210,600		210,600		210,600
1.4 Bituminous sidewalks: Bituminous sidewalks are deteriorated and cracked. Replace with new bituminous sidewalks.	**1998**	1,600	SY	50.00	80,000	104,000		104,000		104,000
1.5 Concrete walks: Remove and replace deteriorated areas of the concrete walk.	**1998**	750	SY	90.00	67,500	87,750		87,750		87,750
1.6 Catch Basin / Manhole: Rebuild sinking manhole and reset storm drainage cover.	**1998**	17	EA	5,000.00	85,000	110,500		110,500		110,500
1.7 Accessible Parking Identification: Add missing or replace broken signage at accessible parking spaces.	**1998**	1	LS	2,000.00	2,000	2,600			2,600	2,600
1.8 Drainage Issue at Play Fields: The drainage appears to be inadequate. Conduct storm drainage study.	**1998**	1	LS	20,000.00	20,000	26,000		26,000		26,000
1.9 Fencing: Fencing is generally in good condition. Some sections needs repair/replacement.	**1998**	40	LF	47.00	1,880	2,444		2,444		2,444

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
1. SITE										**DUDLEY MIDDLE SCHOOL**
1.10 Road Leading to School Building: The road leading to the school building is in fair condition, provide maintenance.	**1998**	1	LS	5,000.00	5,000	6,500		6,500		6,500
Total							0	1,911,411	2,600	1,914,011
Total Inflated @ 5% for Scope 1, 4% for Scopes 2-3 and Compounded Annually							0	2,325,524	3,163	2,328,687

[1]Total includes Soft Costs (30%): Contingency, Administration and A/E Fees.

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
2. BUILDING ENVELOPE										**DUDLEY MIDDLE SCHOOL**
2.1 Staining, Efflorescence and Moss: Power wash and clean at various locations of the masonry veneer wall, approximately 40% to 50% of 51,200 SF total.	**1998**	25,600	SF	15.00	384,000	499,200		499,200		499,200
2.2 Exterior Egress Doors: Some doors and frames are rusting at the bottom. Replace doors and frames.	**1998**	7	EA	3,300.00	23,100	30,030		30,030		30,030
2.3 Exterior Doors Weather Stripping: Replace weather stripping on exterior doors.	**1998**	300	LF	10.00	3,000	3,900		3,900		3,900
2.4 Window Glazing: Existing windows are in fair condition. Some units need reglazing or replacement.	**1998**	20	SF	250.00	5,000	6,500		6,500		6,500
2.5 Window and Door Perimeter Sealants: Remove and replace failing sealant joints with new sealants and backer rods.	**1998**	3,750	LF	15.00	56,250	73,125		73,125		73,125
2.6 Masonry Joints Sealant: Remove and replace failing sealant joints with new sealants and backer rods.	**1998**	4,300	LF	15.00	64,500	83,850		83,850		83,850
2.7 Water Infiltration at Masonry Wall: It was reported that the leak occurred during a wind-driven rain. Per existing details, the wind-driven rain appears to enter the wall at the louver and drops or travels along the perimeter beam before dropping at a low point. Replace louver with storm resistant louver.	**1998**	49	EA	3,500.00	171,500	222,950		222,950		222,950

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
2. BUILDING ENVELOPE										**DUDLEY MIDDLE SCHOOL**
2.8 Concrete Loading Dock: Loading dock is in fair condition. Remove and replace bituminous apron with concrete.		90	SY	360.00	32,400	42,120		42,120		42,120
Total							0	961,675	0	961,675
Total Inflated @ 5% for Scope 1, 4% for Scopes 2-3 and Compounded Annually							0	1,170,025	0	1,170,025

[1]Total includes Soft Costs (30%): Contingency, Administration and A/E Fees.

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
3. BUILDING INTERIORS									**DUDLEY MIDDLE SCHOOL**	
3.1 Unsightly 2' x 4' SAT Ceilings: Replace stained suspended acoustic ceiling with new 2' x 4' ceiling system.		3,500	SF	8.00	28,000	36,400		36,400		36,400
3.2 Unsightly Painted Walls: Paint in pumphouse is degraded, remove existing and repaint**.**		1,200	sf	2.00	2,400	3,120		3,120		3,120
3.3 Unsightly Painted Ductwork: Painted ductwork in gym is deteriorated, remove existing and repaint.		1,400	sf	2.00	2,800	3,640		3,640		3,640
3.4 Worn Carpet: The original carpet is past its effective useful life. Replace with new carpet.		49,500	SF	6.00	297,000	386,100		386,100		386,100
3.5 VCT Flooring: VCT flooring is worn and beyond its useful life. Remove and install new VCT.		2,000	SF	12.00	24,000	31,200		31,200		31,200
3.6 Ceramic Tile Flooring: Tile at locker room to gym connection shows damage. Recommend replacing.		18	SF	20.00	360	468		468		468
3.7 Crack in Terrazzo Floor: Existing terrazzo flooring contains cracks in several locations at entry.		25	SF	8.00	200	260		260		260
3.8 Sinks in Staff rooms and classrooms not ADA compliant: Remove existing casework and counters at sink. Replace with new casework and countertop providing 30" min. wide kneespace access to sink.		37	EA	3,800.00	140,600	182,780			182,780	182,780

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
3. BUILDING INTERIORS										**DUDLEY MIDDLE SCHOOL**
3.9 Classroom Door Approach: Additional lockers have been added in the hallways outside of classrooms resulting in ADA approach clearance issues. Recommend removing 1 to 2 lockers to provide clearance.		20	EA	500.00	10,000	13,000			13,000	13,000
3.10 Interior Doors to Exitways: Damaged vertical rod, recommend replacing hardware.		2	EA	300.00	600	780	780			780
3.11 Interior Door to Gym: Door is damaged and does not close easily, recommend replacing.		1	EA	1,500.00	1,500	1,950	1,950			1,950
Total							2,730	461,188	195,780	659,698
Total Inflated @ 5% for Scope 1, 4% for Scopes 2-3 and Compounded Annually							3,010	561,106	238,196	802,312

[1]Total includes Soft Costs (30%): Contingency, Administration and A/E Fees.

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
4. MECHANICAL										**DUDLEY MIDDLE SCHOOL**
4.1 Exhaust Fans: Rooftop exhaust fans are beyond expected useful service life. Replace exhaust fans.	**1999**	25	EA	3,450.00	86,250	112,125	112,125			112,125
4.2 Boilers: All boilers have replacement sections and are approaching end of expected useful service life. Replace existing boilers.	**1999**	1	LS	800,000	800,000	1,040,000	1,040,000			1,040,000
4.3 Circulating Pumps: Circulating pumps are approaching end of expected useful service life. Replace pumps.	**1999**	7	EA	15,350.00	107,450	139,685	139,685			139,685
4.4 ACCU-1: Air Cooled Condensing Unit is failing and beyond end of useful service life. Replace unit.	**1999**	1	LS	15,000.00	15,000	19,500	19,500			19,500
4.5 ACCU-2: Air Cooled Condensing Unit is failing and beyond end of useful service life. Replace unit.	**1999**	1	LS	15,000.00	15,000	19,500	19,500			19,500
4.6 ACCU-3: Air Cooled Condensing Unit is failing and beyond end of useful service life. Replace unit.	**1999**	1	LS	15,000.00	15,000	19,500	19,500			19,500
4.7 ACCU-4: Air Cooled Condensing Unit is failing and beyond end of useful service life. Replace unit.	**1999**	1	LS	30,000.00	30,000	39,000	39,000			39,000
4.8 ACCU-5: Air Cooled Condensing Unit is failing and beyond end of useful service life. Replace unit.	**1999**	1	LS	6,500.00	6,500	8,450	8,450			8,450
4.9 Building Management System: Facility lacks integrated HVAC controls and energy management system. Provide fully integrated BMS.	**1999**	99,118	SF	10.00	991,180	1,288,534		1,288,534		1,288,534

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
4. MECHANICAL										**DUDLEY MIDDLE SCHOOL**
4.10 Fire Pump: Control panel is obsolete. Replace control panel.	**1999**	1	LS	10,000.00	10,000	13,000	13,000			13,000
4.11 Water Service Pump: Pump and control panel are beyond expected useful service life. Replace both.	**1999**	1	LS	12,000.00	12,000	15,600	15,600			15,600
4.12 Inaccessible Drinking Fountains in Gym: Install accessible drinking fountains**.**	**1998**	4	EA	5,400.00	21,600	28,080			28,080	28,080
4.13 Back-flow Preventers at Chemical Mixers: Chemical mixers in janitorial closets are required to have backflow preventers.	**1999**	4	EA	500.00	2,000	2,600	2,600			2,600
Total							1,428,960	1,288,534	28,080	2,745,574
Total Inflated @ 5% for Scope 1, 4% for Scopes 2-3 and Compounded Annually							1,575,428	1,567,699	34,164	3,177,291

[1]Total includes Soft Costs (30%): Contingency, Administration and A/E Fees.

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
5. ELECTRICAL										**DUDLEY MIDDLE SCHOOL**
5.1 Phone System: Phone system is obsolete technology. Upgrade system with VOIP.	**1999**	65	EA	500.00	32,500	42,250		42,250		42,250
5.2 Security System: Upgrade security system with integrated electronic security system consisting of intrusion, card access, and CCTV.	**1999**	99,118	SF	6.50	644,267	837,548		837,548		837,548
5.3 Paging/Timeclock System: Existing systems are non-integrated, unsynchronized and obsolete. Replace with new integrated system.	**1999**	99,118	SF	5.00	495,590	644,267		644,267		644,267
5.4 Lighting: Upgrade second floor fluorescent lighting to LED.	**1999**	20,983	SF	20.00	419,660	545,558		545,558		545,558
5.5 Pump House FACP: FACP at pump house is obsolete. Replace control panel.	**1999**	1	LS	10,000.00	10,000	13,000	13,000			13,000
5.6 Transfer Switch: Faulty standby generator transfer switch trips when transferring load back to normal power. Replace transfer switch.	**1999**	1	LS	12,000.00	12,000	15,600	15,600			15,600
Total							28,600	2,069,623	0	2,098,223
Total Inflated @ 5% for Scope 1, 4% for Scopes 2-3 and Compounded Annually							31,532	2,518,013	0	2,549,544

[1]Total includes Soft Costs (30%): Contingency, Administration and A/E Fees.

DUDLEY MIDDLE SCHOOL - SITE



1.1 Deteriorated paving.



1.3 Damaged bituminous curbing.



1.5 Deteriorated concrete walks.



1.6 Sinking catch basin.

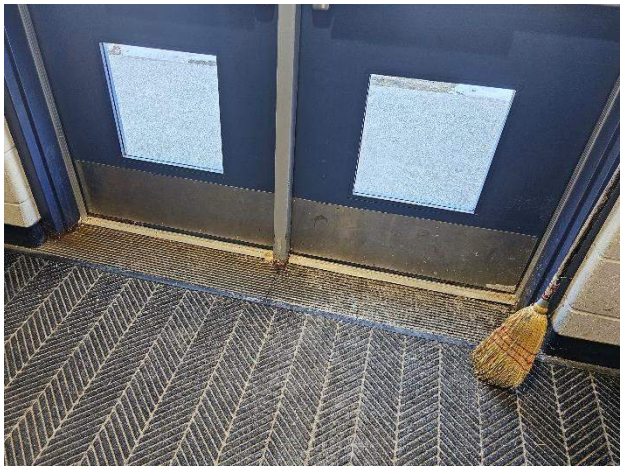


1.7 Damaged signage at accessible parking spaces.

DUDLEY MIDDLE SCHOOL – BUILDING ENVELOPE



2.1 Staining, Efflorescence and Moss.



2.2 Door and frame are rusting at the bottom.



2.3 Failing weather stripping on exterior doors.



2.5 Failing perimeter sealant joints.



2.6 Failing masonry sealant joints.

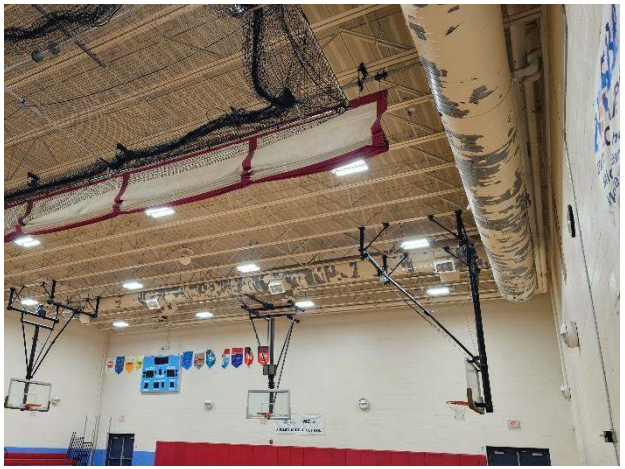


2.8 Bituminous apron at loading dock.

DUDLEY MIDDLE SCHOOL – INTERIOR



3.1 Damaged and stained ACT.



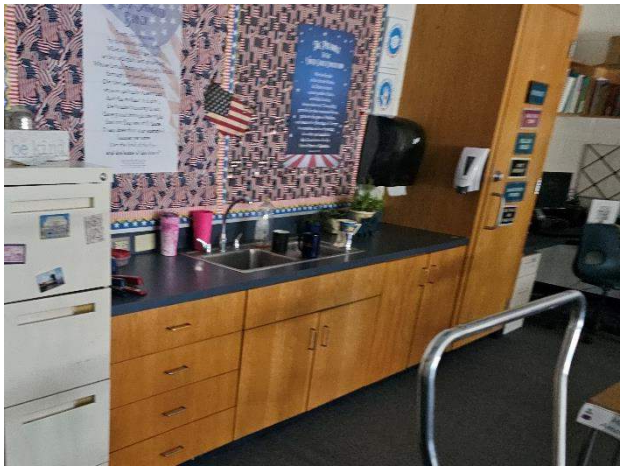
3.3 Degrading paint on gym ductwork.



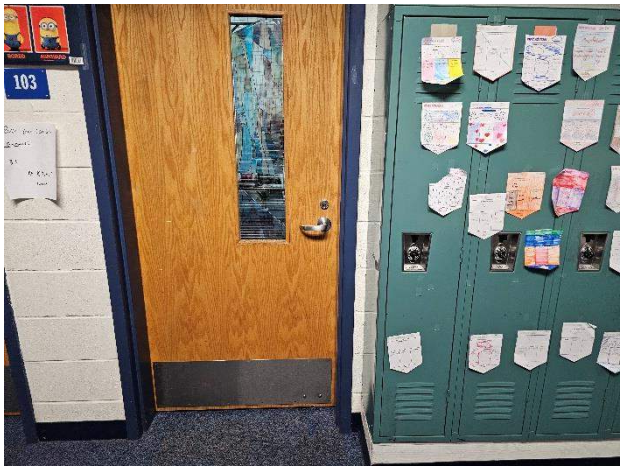
3.6 Cracked tile at locker room entry.



3.7 Cracked terrazzo.

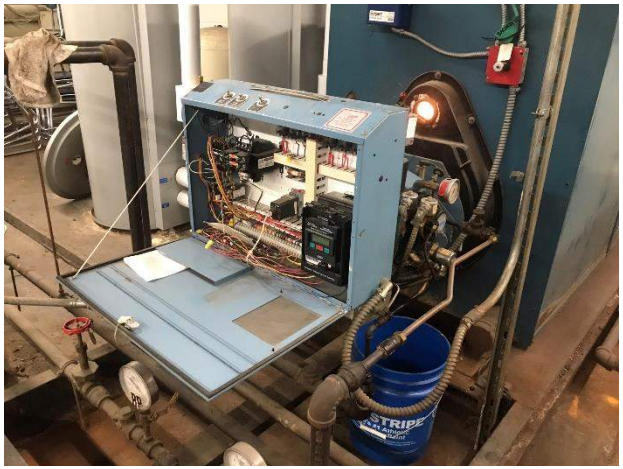


3.8 Non ADA compliant sinks in classrooms.



3.9 ADA clearance issue at classrooms.

DUDLEY MIDDLE SCHOOL – MECHANICAL



4.2 All boilers have replacement sections and are approaching end of useful service life.



4.3 Circulating pumps are approaching end of expected useful service life.



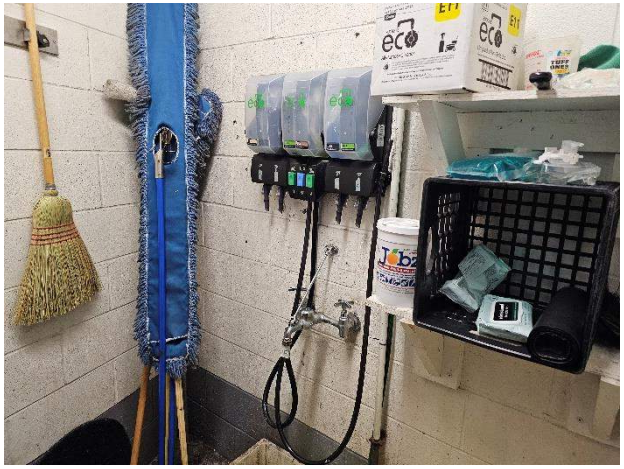
4.9 Facility lacks integrated HVAC controls and energy management system.



4.10 Fire pump control panel is obsolete. Replace with new.



4.11 Water service pump and control panel are beyond expected useful service life.



4.13 Backflow preventers are required on chemical mixers.

DUDLEY MIDDLE SCHOOL – ELECTRICAL



5.2 Upgrade security with integrated intrusion, card access, and CCTV system.



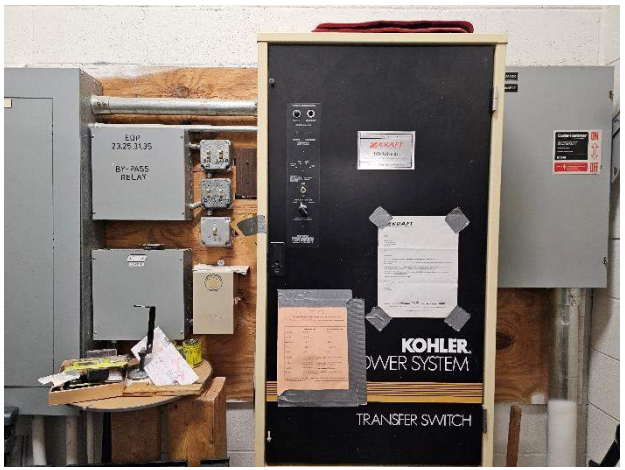
5.3 Existing paging/timeclock systems are non-integrated and obsolete.



5.4 Upgrade second floor fluorescent lighting to LED.



5.5 FACP at pump house is obsolete. Replace control panel.



5.6 Faulty standby generator transfer switch trips when transferring load back to normal power. Replace transfer switch.

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BUILDING DATA

SHEPHERD HILL REGIONAL HIGH SCHOOL

GENERAL INFORMATION:	
Building:	Shepherd Hill Regional High School
Address:	68 Dudley Oxford Road, Dudley, MA 01571
Director of Public Facilities:	Joseph Caron
Head Custodian:	Gregory Duval
CODE CLASSIFICATION:	
Occupancy:	Educational
Construction Type:	Type 2B
BUILDING HISTORY:	
Original Building:	1973
SITE / BUILDING AREA:	
Site Area:	90.39 Acres (Lot combined with Dudley Middle School)
Total Building Area:	185,278 SF
First Floor Area:	117,834 SF
2nd Floor Area:	33,722 SF
3rd Floor Area:	33,722 SF
SITE COMPONENTS:	
Parking/Driveways:	Bituminous paving- circular driveway at front surrounding parking lot.
Walkways:	Concrete walkways.
Lighting:	Light poles and exterior building lights.
Storm Drainage	Catch basins located around building and in parking lot.
Sanitary System:	8” sanitary lines connecting to city sewer.
Play Areas:	3 paved basketball courts, 6 tennis courts, 1 football field, 1 football practice field, 2 soccer fields, softball field.



ARCHITECTURAL COMPONENTS:	
Foundation:	4” reinforced concrete slab on grade.
Super Structure:	Structural steel.
Floor Structure:	3” reinforced concrete over corrugated deck.
Roof Structure:	Flat roofing sloping to drains, on metal deck on steel structure.
Exterior Walls:	8” CMU with Brick masonry veneer.
Roofing:	Built up roof membrane, over rigid insulation, on 1 ½” metal deck.
Window Systems:	Prefinished aluminum windows with single pane glazing.
Exterior Doors	Hollow metal frames with metal doors.

BUILDING DATA (CONTINUED)

ARCHITECTURAL COMPONENTS:		MECHANICAL / ELECTRICAL COMPONENTS:	
Interior Doors	Hollow metal frames with approximately half metal and half solid wood doors.	Water Service:	Building supplied by 6” water main located at Dudley Oxford Road.
Stairs:	Concrete filled steel pan.	Domestic Hot Water:	(4) Electric hot water heaters (2009).
Interior Walls:	6-8” Concrete masonry units (CMU).	Fire Suppression:	Building is partially sprinklered at Gymnasium and vocational shops only with wet-type automatic sprinklers.
Wall Finishes:	Paint over plaster and CMU.	Heating Systems:	(2) Oil-fired boilers. 15,000 gal. oil tank. Unit ventilators at classrooms.
Ceiling Finishes:	Mostly ACT, some gyp board ceilings.	Cooling Systems:	Library, Cafeteria, Offices, Auditorium, Air handling units (AHUs) replaced 2009.
Conveying Systems:	1 Hydraulic Elevator.	Electric Service:	3000 Amp main service. Federal Pacific switchgear.
		Standby Power:	No. 2 fuel oil fired standby generator rebuilt 2018. Serves egress lighting at corridors, stairs, exit signs. Circulator pumps and boilers switched manually.
		Lighting:	T8 Fluorescent lighting typical. T5 lighting at gymnasiums, LED at auditorium.
		Fire Alarm:	FACP replaced 2019. Heat detectors original devices.
		Security:	Avigilon system with CCTV, video intercom w/ access control (2012).

Category	Scope 1	Scope 2	Scope 3	Total
Building Summary				**Shepherd Hill Regional High School**
1. SITE	0	1,966,445	9,100	1,975,545
2. BUILDING ENVELOPE	10,140,000	1,028,885	0	11,168,885
3. BUILDING INTERIORS	6,240	833,716	543,660	1,383,616
4. MECHANICAL	3,232,925	2,972,814	2,352,642	8,558,381
5. ELECTRICAL	2,181,872	7,665,135	0	9,847,007
[1]Total	15,561,037	14,466,995	2,905,402	32,933,434
[1]Total Inflated @ 5% for Scope 1, 4% for Scopes 2-3 and Compounded Annually	17,156,043	17,601,311	3,534,866	38,292,221

[1]Totals include Soft Costs (30%): Contingency, Administration and A/E Fees.

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
1. SITE									**SHEPHERD HILL REGIONAL HIGH SCHOOL**	
1.1 Drives and Walks: Paving is cracked and deteriorated with potholes and heaves. Replace bituminous paving and base.		23,200	SY	55.00	1,276,000	1,658,800		1,658,800		1,658,800
1.2 Granite Curbing: Existing granite curbs are in fair to poor condition. Some areas need to be replaced/reset.		1,000	LF	41.00	41,000	53,300		53,300		53,300
1.3 Bituminous Curbing: Bituminous curbing is damaged. Replace bituminous curbing at parking lots.		1,800	LF	20.00	36,000	46,800		46,800		46,800
1.4 Bituminous sidewalks: Bituminous sidewalks are deteriorated and cracked. Replace with new bituminous sidewalks.		3,500	SY	20.00	70,000	91,000		91,000		91,000
1.5 Catch Basin / Manhole: Some catch basins/manholes are in fair condition but need adjustment.	**1998**	5	EA	2,500.00	12,500	16,250		16,250		16,250
1.6 Basketball Court: The basketball courts are in fair to poor condition. Patch and repair.	**1998**	1,680	SF	10.00	16,800	21,840		21,840		21,840
1.7 Tennis Courts: The tennis courts are in fair to poor condition. Patch and repair.	**1998**	3,800	SF	10.00	38,000	49,400		49,400		49,400
1.8 Fencing: Fencing is generally in good condition. Some sections need repair/replacement.		50	LF	47.00	2,350	3,055		3,055		3,055
1.9 Accessible Parking Identification: Add signage at accessible parking spaces**.**		14	EA	500.00	7,000	9,100			9,100	9,100

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
1. SITE										**SHEPHERD HILL REGIONAL HIGH SCHOOL**
1.10 Drainage Issue at Play Fields: The drainage appears to be inadequate. Conduct storm drainage study.		1	LS	20,000.00	20,000	26,000		26,000		26,000
Total							0	1,966,445	9,100	1,975,545
Total Inflated @ 5% for Scope 1, 4% for Scopes 2-3 and Compounded Annually							0	2,392,481	11,072	2,403,553

[1]Total includes Soft Costs (30%): Contingency, Administration and A/E Fees.

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
2. BUILDING ENVELOPE									**SHEPHERD HILL REGIONAL HIGH SCHOOL**	
2.1 Modified Bitumen Roofing: The existing roof is at the end of its life expectancy. Replace with new PVC roofing system.		120,000	SF	65.00	7,800,000	10,140,000	10,140,000			10,140,000
2.2 Staining and Efflorescence: Power wash and clean at various locations of a brick veneer masonry wall, approximately 40% to 50% of 62,000 SF.		31,000	SF	15.00	465,000	604,500		604,500		604,500
2.3 Damaged Brick Veneer: There is damaged brick veneer throughout the exterior walls. Replace with new.		200	SF	100.00	20,000	26,000		26,000		26,000
2.4 Damaged Masonry Mortar Joints: There are damaged masonry mortar joints throughout the exterior walls. Replace with new.		400	SF	45.00	18,000	23,400		23,400		23,400
2.5 Deteriorating Steel Lintels: Some lintels at exterior doors are rusting and sagging and need to be replaced.	**1973**	49	LF	500.00	24,500	31,850		31,850		31,850
2.6 Exterior Egress Doors: Doors and frames are rusting at the bottom. Replace frames and doors.	**1973 2012**	10	EA	3,300.00	33,000	42,900		42,900		42,900
2.7 Exterior Doors Weather Stripping: Replace weather stripping on 90% of exterior doors.	**2012**	7,850	LF	10.00	78,500	102,050		102,050		102,050
2.8 Window Balancing System: Window balancing has failed and windows are hard to open. Replace with new balancing system.	**2012**	50	EA	500.00	25,000	32,500		32,500		32,500

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
2. BUILDING ENVELOPE								**SHEPHERD HILL REGIONAL HIGH SCHOOL**		
2.9 Window Glazing: Repair and replace glazing at windows with a broken seal.	**2012**	100	SF	250.00	25,000	32,500		32,500		32,500
2.10 Window and Door Perimeter Sealants: Remove and replace deteriorated sealant joints with new sealants and backer rods.	**2012**	3,750	LF	15.00	56,250	73,125		73,125		73,125
2.11 Masonry Joints Sealant: Remove and replace failing sealant joints with new sealants and backer rods.		1,000	LF	15.00	15,000	19,500		19,500		19,500
2.12 Water Infiltration at Unit Ventilation: Replace louver with storm resistant louver.		20	EA	1,200.00	24,000	31,200		31,200		31,200
2.13 Concrete Loading Dock: Loading dock is in poor condition. Remove and replace bituminous apron with concrete.		20	SY	360.00	7,200	9,360		9,360		9,360
Total							10,140,000	1,028,885	0	11,168,885
Total Inflated @ 5% for Scope 1, 4% for Scopes 2-3 and Compounded Annually							11,179,350	1,251,796	0	12,431,146

[1]Total includes Soft Costs (30%): Contingency, Administration and A/E Fees.

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
3. BUILDING INTERIORS									**SHEPHERD HILL REGIONAL HIGH SCHOOL**	
3.1 Unsightly 2' x 4' ACT Ceilings: Replace sagging / stained suspended acoustic ceiling with new 2' x 4' ceiling system.		9,000	SF	8.00	72,000	93,600		93,600		93,600
3.2 Unsightly Painted Walls: Paint walls.		1,000	sf	2.00	2,000	2,600		2,600		2,600
3.3 Stair Treads: Replace damaged or missing stair treads.		1,056	LF	35.00	36,960	48,048		48,048		48,048
3.4 VCT Flooring: VCT flooring is worn and beyond its useful life. Remove and install new VCT.		30	SF	12.00	360	468		468		468
3.5 Synthetic Gym Floor: Floor is worn and beyond its useful life. Remove and replace with new flooring.		5,000	SF	16.00	80,000	104,000		104,000		104,000
3.6 Urinal Screen: Install accessible toilet partition screens.		32	EA	650.00	20,800	27,040			27,040	27,040
3.7 Non-ADA single occupant restrooms: Modify to meet accessibility guidelines.		6	EA	12,500.00	75,000	97,500			97,500	97,500
3.8 Inadequate Guardrail Design: Guardrails mounted too low and missing extensions. Replace to meet guidelines.		432	LF	450.00	194,400	252,720			252,720	252,720
3.9 Classroom Door Approach: Additional lockers have been added in the hallways outside of classrooms resulting in ADA approach clearance issues. Recommend removing 1 to 2 lockers to provide clearance.		4	EA	500.00	2,000	2,600			2,600	2,600

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
3. BUILDING INTERIORS									**SHEPHERD HILL REGIONAL HIGH SCHOOL**	
3.10 Classroom door approach: Doors and walls have been placed in such a way as to not provide enough clearance as required by accessibility guidelines.		25	EA	2,000.00	50,000	65,000			65,000	65,000
3.11 Sinks in Staff Rooms and Classrooms not ADA Compliant: Remove existing casework and counters at sink. Replace with new casework and countertop providing 30" min. wide kneespace access to sink.		20	EA	3,800.00	76,000	98,800			98,800	98,800
3.12 Unsightly Finishes in Restrooms: Provide new finishes.		3,000	SF	150.00	450,000	585,000		585,000		585,000
3.13 Doors and Hardware: Doors have inconsistent, or missing hardware.		24	EA	200.00	4,800	6,240	6,240			6,240
Total							6,240	833,716	543,660	1,383,616
Total Inflated @ 5% for Scope 1, 4% for Scopes 2-3 and Compounded Annually							6,880	1,014,343	661,446	1,682,668

[1]Total includes Soft Costs (30%): Contingency, Administration and A/E Fees.

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
4. MECHANICAL									**SHEPHERD HILL REGIONAL HIGH SCHOOL**	
4.1 Fire Sprinkler System: Building lacks a complete fire sprinkler system. Install a fire sprinkler system in all areas.	**1973**	185,278	SF	8.00	1,482,224	1,926,892			1,926,892	1,926,892
4.2 Boilers: Boilers are original equipment and are beyond expected useful service life. Replace boilers.	**1973**	1	LS	800,000	800,000	1,040,000	1,040,000			1,040,000
4.3 Circulation Pumps: Hot water circulation pumps are beyond expected useful service life. Replace pumps.	**1973**	3	EA	15,350.00	46,050	59,865	59,865			59,865
4.4 Piping: Copper hot water piping is corroded and leaking. Replace piping all areas.	**1973**	185,278	SF	5.00	926,390	1,204,307	1,204,307			1,204,307
4.5 Unit Ventilators: Unit ventilators are beyond expected useful service life. Replacement parts no longer available. Replace unit ventilators at classrooms.	**1973**	75	EA	8,375.00	628,125	816,563	816,563			816,563
4.6 Exhaust Fans: Rooftop exhaust fans are beyond expected useful service life. Replace exhaust fans.	**1973**	24	EA	3,450.00	82,800	107,640	107,640			107,640
4.7 Building Management System: Pneumatic temperature controls are obsolete. Replacement parts no longer available. Facility lacks integrated HVAC controls and energy management system. Provide fully integrated BMS.	**1973**	185,278	SF	10.00	1,852,780	2,408,614		2,408,614		2,408,614
4.8 Lab Waste Neutralization: Laboratory sink drains not equipped with acid neutralization. Add chip tanks to each lab sink.	**1973**	28	EA	3,000.00	84,000	109,200		109,200		109,200

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
4. MECHANICAL									**SHEPHERD HILL REGIONAL HIGH SCHOOL**	
4.9 Nurse Office Toilets: Toilets are not accessible. Renovate toilet rooms with accessible fixtures.	**1973**	2	EA	20,000.00	40,000	52,000			52,000	52,000
4.10 Toilet Rooms: Toilet rooms are not accessible. Renovate toilet rooms with accessible fixtures.	**1973**	80	EA	3,500.00	280,000	364,000			364,000	364,000
4.11 Kitchen Equipment: Approximately 60% of kitchen equipment is original. Replace with new equipment.	**1973**	1	LS	350,000	350,000	455,000		455,000		455,000
4.12 Lab Sinks: Laboratory sinks are not accessible. Replace sinks with accessible units.	**1973**	5	EA	1,500.00	7,500	9,750			9,750	9,750
4.13 Back-flow Preventers at Chemical Mixers: Chemical mixers in janitorial closets are required to have backflow preventers.	**1973**	7	EA	500.00	3,500	4,550	4,550			4,550
Total							3,232,925	2,972,814	2,352,642	8,558,381
Total Inflated @ 5% for Scope 1, 4% for Scopes 2-3 and Compounded Annually							3,564,300	3,616,883	2,862,349	10,043,531

[1]Total includes Soft Costs (30%): Contingency, Administration and A/E Fees.

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
5. ELECTRICAL									**SHEPHERD HILL REGIONAL HIGH SCHOOL**	
5.1 Switchgear: Electric switchgear is original Federal Pacific equipment and a known fire hazard. Replace switchgear with new equipment.	**1973**	185,278	SF	5.00	926,390	1,204,307	1,204,307			1,204,307
5.2 Electric Distributon: Electrical distribution panels are original Federal Pacific equipment and a known fire hazard. Replace distribution panels with new.	**1973**	185,278	SF	3.50	648,473	843,015	843,015			843,015
5.3 Phone System: Phone system is obsolete technology. Upgrade system with VOIP.		120	EA	500.00	60,000	78,000		78,000		78,000
5.4 Security System: Upgrade security system with integrated electronic security system consisting of intrusion, card access, and CCTV.		185,278	SF	6.50	1,204,307	1,565,600		1,565,600		1,565,600
5.5 Paging/Timeclock System: Existing systems are non-integrated, unsynchronized and obsolete. Replace with new integrated system.	**1973**	185,278	SF	5.00	926,390	1,204,307		1,204,307		1,204,307
5.6 Lighting: Upgrade fluorescent lighting to LED.	**1973**	185,278	SF	20.00	3,705,560	4,817,228		4,817,228		4,817,228
5.7 Fire Alarm: Heat detectors are original and obsolete. Replace with new.	**1973**	200	EA	500.00	100,000	130,000	130,000			130,000

Work Item Description	Year Inst.	Qty	Unit	Unit Cost	Total	[1]Total w/ Soft Costs	Scope 1	Scope 2	Scope 3	Totals
5. ELECTRICAL								**SHEPHERD HILL REGIONAL HIGH SCHOOL**		
5.8 Standby Power: Circulator pumps and boilers are switched manually to generator. Add automatic transfer to standby power.	**1973**	1	LS	3,500.00	3,500	4,550	4,550			4,550
Total							2,181,872	7,665,135	0	9,847,007
Total Inflated @ 5% for Scope 1, 4% for Scopes 2-3 and Compounded Annually							2,405,514	9,325,809	0	11,731,323

[1]Total includes Soft Costs (30%): Contingency, Administration and A/E Fees.

SHEPHERD HILL REGIONAL HIGH SCHOOL - SITE



1.1 Deteriorating bituminous paving.



1.2 Granite curbs in fair condition.



1.4 Cracked bituminous sidewalks.



1.5 Sinking basins/manhole.



1.6 Paving cracked at the tennis courts.



1.9 Missing signage at accessible parking spaces.

SHEPHERD HILL REGIONAL HIGH SCHOOL – BUILDING ENVELOPE



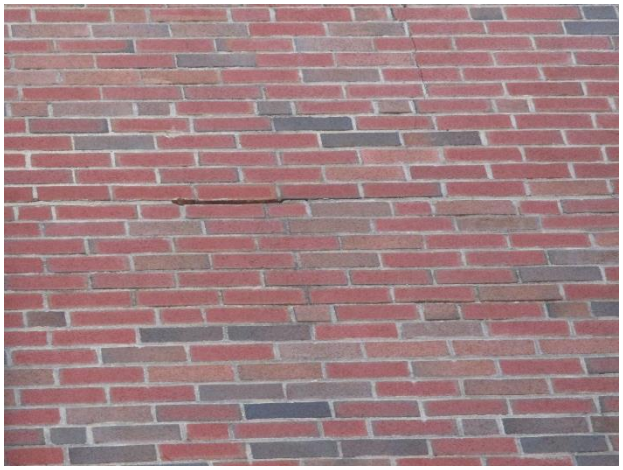
2.1 Failing existing modified bituminous roofing.



2.2 Staining and efflorescence.



2.3 Damaged brick veneer.



2.4 Cracked mortar joints.



2.5 Sagging lintel at exterior door.



2.11 Failing masonry sealant joint.

SHEPHERD HILL REGIONAL HIGH SCHOOL - INTERIOR



3.1 Stained ceiling tiles.



3.2 Deteriorated/water damaged paint at stairwells.



3.3 Stair treads are deteriorating.



3.4 Cracked VCT flooring.



3.5 Gym floor is worn and damaged.

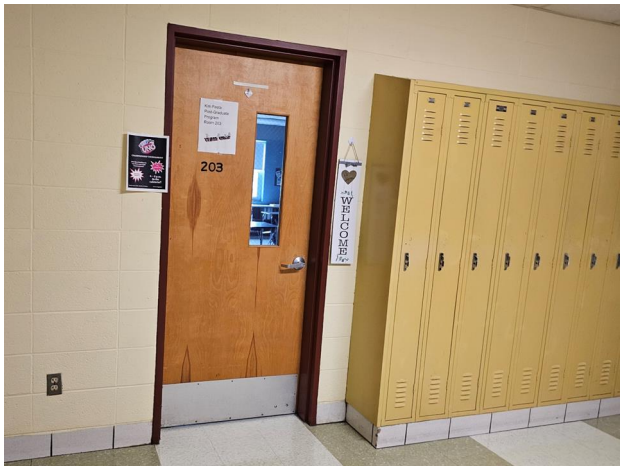


3.6 Urinal screens missing.

SHEPHERD HILL REGIONAL HIGH SCHOOL – INTERIOR CONTINUED



3.7 Single occupant restrooms do not meet accessibility requirements.



3.9 Additional lockers have been added encroaching into accessibility clearance at doors.



3.10 Door and wall placement does not provide adequate accessibility clearance.



3.11 Casework at sinks do not meet accessibility requirements.



3.12 Deteriorated finishes in restrooms.



3.13 Non-latching hardware at egress stair.

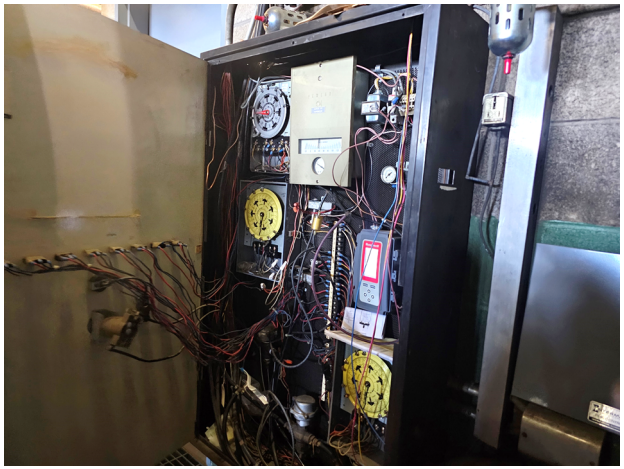
SHEPHERD HILL REGIONAL HIGH SCHOOL - MECHANICAL



4.2 Boilers are original and beyond expected useful service life. Replace with new.



4.3 Hot water circulating pumps are beyond useful service life. Replace with new.



4.7 Pneumatic temperature controls are obsolete. Replacement parts no longer available.



4.10 Toilet rooms are not accessible, renovate with accessible fixtures.



4.11 Approximately 60% of kitchen equipment is original. Replace with new equipment.



4.12 Lab sinks are not accessible. Replace with accessible units.

SHEPHERD HILL REGIONAL HIGH SCHOOL - ELECTRICAL



5.1 Switchgear is Federal Pacific and a known fire hazard. Replace with new equipment.



5.2 Electric distribution is original Federal Pacific and known fire hazard. Replace with new.



5.3 Phone system is obsolete. Replace with VOIP.



5.5 Existing systems are non-integrated, unsynchronized, and obsolete. Replace with new integrated system.



5.6 Upgrade parabolic fluorescent lighting to LED.



5.8 Circulator pumps and boilers are switched manually to generator. Add automatic transfer to standby power.

DUDLEY-CHARLTON REGIONAL SCHOOL DISTRICT

POLICY

School Committee Organizational Meeting **BDA**

For the purpose of organizing, the School Committee, at its first regularly scheduled meeting following the conclusion of the towns' annual elections, will elect a Chair, Vice Chair, treasurer, assistant treasurer, secretary and Southern Worcester County Educational Collaborative Representative, all of whom will hold their respective offices for a term of one-year or until a successor is elected.

In the event the Chair and Vice-Chair are no longer members of the School Committee, the senior member (years served) will act as the Chair Pro-Tem.

A majority of the members of the School Committee will constitute a quorum. The election will proceed as follows:

1. Nominations for the office of chair will be made from the floor. The chair will be elected by a majority vote of the members present and voting. If no nominee receives a majority vote, the election will be declared null and void and nominations will be reopened.
2. Upon election, the new chair will preside, calling for the election of a vice-chair and treasurer, and secretary, and Southern Worcester County Educational Collaborative Representative in order. The procedure used for their election will be the same as that for electing the chair.

Any vacancy among the officers occurring between organizational meetings will be filled by a member elected (with the exception of the treasurer) by the School Committee. The election will be conducted as described above.

Following the election of officers at its organizational meeting, the School Committee will proceed into such regular or special business as scheduled on the agenda.

When conducting the School Committee Organizational Meeting, the committee will consider subcommittee appointments to: Budget and Finance, Policy Review, Capital Outlay and Safety, Curriculum for Teaching and Learning, Executive Sessions Minutes Review, School Calendar Review, Wage and Benefits Negotiations, Massachusetts Nurses Association Negotiations, Dudley-Charlton Paraprofessionals Association Negotiations, and the Dudley-Charlton Teachers Association Negotiations. Additionally, the committee will consider representative appointments to include, but not limited to Borrowing Authorization and Special Education Parents Advisory Council (SEPAC).

Adopted January 9, 2013
Amended June 9, 2021
Amended January 26, 2022

2024-2025 Proposed Handbook Changes
Shepherd Hill Regional High School

(Note: Routine grammatical and formatting changes not included.)

Current	Proposed	Rationale
Electronic Devices (p. 55)	Upon entering the classroom, all students will be required to place their cell phones in a school-provided cell phone holder, until such time as the teacher deems cell phone access necessary, or the end of the period.	It is common knowledge that cell phones pose a variety of challenges in school. There is variation from classroom to classroom relative to use of cell phones as instructional aids, and enforcement, so this proposal helps to level the playing field for all teachers to implement a standard practice at the beginning of class, while also maintaining a degree of teacher autonomy. Banning cell phones outright would be problematic, given that DCRSD is not a 1:1 district, and there are some educational applications that are used on a daily basis.
Parking on School Grounds (p. 60)	Students who are permitted to drive to school for the entire year will be assessed a fee of $200. Students who are permitted to drive to school after the beginning of second semester will be assessed a fee of $100.	Administration receives many questions regarding the current fee structure. Administration views this as a fair adjustment that will still generate revenue to support the maintenance of the parking lot.
Lavatory Usage (p. 58)	Students who abuse the lavatory may have their privileges restricted (limited to using the Nurse's lavatory.) Examples of lavatory abuse include: vandalism, loitering, vaping, and/or not using the facilities for their intended purpose.	This language clarifies with specific infractions.

2024-2025 Proposed Handbook Changes
CMS/DMS School

(Note: Routine grammatical and formatting changes not included.)

Current	Proposed	Rationale
Important Dates	Quarters instead of Trimesters (need to add dates)	Easier for students to track grades
Foreword to Students	Update Principal's Message, add SPED Coordinator, update School Committee Members, Central Administration	Routine updates
Additionally, no course in which the final grade is below 53 can be made up in summer school. (p.12)	Remove "Additionally, no course in which the final grade is below 53 can be made up in summer school."	A failing grade is a failing grade
Currently nothing in handbook related to AI	Add the following: ***Image Alteration – Students cannot intentionally alter any likeness of any member of the CMS/DMS school community using any form of image alteration programs (such as, but not limited to, DeepFake/FaceSwap/ReFace, etc.) in an effort to discredit, harass, bully or intimidate that individual. If applicable, the Harassment/Sexual Harassment and/or Bullying policy may come into effect, and the offense will be reported to the local police department if warranted.***	Trying to stay ahead of current trends in AI and its potential implications.
Face Masks (p. 40)	Remove this section	No longer necessary
Staff Directory	Update personnel	Routine updates

p. 37-40 debating whether we keep specific offense and disciplinary action section ***We are requesting more time to research this over the next few weeks.***	**Add the following blanket statement** **Discipline Overview** Disciplinary practices will remain at an individual level with an increased focus on re-teaching expected behaviors when incidents occur. Disciplinary consequences are cumulative in nature, often referred to as progressive discipline. First or second minor offenses typically result in a warning, written apology or lunch detention, third through fifth result in office (after school) detention, and habitual inappropriate behavior results in more severe consequences including in-school and out-of-school suspensions. Students who engage in chronic inappropriate behaviors will also be referred to the Assistant Principal for additional behavioral interventions and parents will be contacted.	Provide us with more room for creative solutions.