

Town of Billerica

FY22 Annual Report



July 1, 2020 – June 30, 2021

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MEMORIAMs

Thomas Adams
Died: June 18, 2020
Billerica Police Officer

Leonard A. Buckland
Died: December 5, 2020
Lt. Billerica Police Department

Roy A. Griffin, Jr.
Died: August 12, 2020
Election Officer

Warren J. Costedio
Died: January 1, 2021
Election Officer

Charlene M. Correnti
Died: September 21, 2020
Town Meeting Representative

Larry M. Thorlton
Died: February 2, 2021
Billerica Firefighter

James J. Murphy, Sr.
Died: September 26, 2020
Planning Board Member
Town Meeting Member

Nancy R. Dagle
Died: April 4, 2021
Clerk – Billerica Police Department

Elda L. Medeiros
Died: October 1, 2020
Election Officer

Edward R. Gass, Jr.
Died: May 17, 2021
Billerica Police Department

John P. O'Brien, Jr.
Died: October 1, 2020
Billerica Firefighter

Robert D. Killeen
Died: October 10, 2020
Town Meeting Representative

Joseph H. Turner, Jr.
Died: November 6, 2020
Captain: Billerica Fire Department

Dale D. Crandall, Sr.
Died: November 12, 2020
Billerica Police Department

GENERAL INFORMATION

TOWN WEB SITE:

www.town.billerica.ma.us

ADDRESS: 365 BOSTON ROAD

HOURS: 8:30 a.m. to 4 p.m.

AREA: 25.96 Square Miles

ALTITUDE: 375 Feet above sea level

INCORPORATED: May 1655

POPULATION: 40,243
(Federal 2010 Census)

COUNTY: Middlesex

DISTRICTS: Fifth Congressional, Third
Councilor, Fourth Middlesex Senatorial
22nd Middlesex Representative

GOVERNOR:

Charles D. Baker (R)
State House
Boston MA 02133

U.S. SENATOR:

Elizabeth Warren (D)
2400, J.F.K. Federal Building
Boston, MA 02203

U.S. SENATOR:

Edward Markey (D)
Transportation Building
10th floor, 1 Bowdoin St.
Boston, MA. 02116

U.S. REPRESENTATIVE IN CONGRESS:

Seth W. Molton (D)
17 Peabody Square
Peabody, MA 01960

STATE SENATOR:

Cindy Freedman (D)
State House
Room 413D
Boston, MA 02133

STATE REPRESENTATIVE:

Marc L. Lombardo (R)
State House,
Boston, MA 02133-1054

ANNUAL ELECTION:

First Saturday in April.

REGISTRATION: Monday through Friday, 8:30 a.m. to 4:00 p.m. at the Office of the Board of Registrars. Special sessions held preceding elections.

ANNUAL TOWN MEETINGS

First Tuesday in May (Spring)
First Tuesday in October (Fall)

PASSPORTS: call 1-877-487-2778

Or www.travel.state.gov

TRASH COLLECTION/RECYCLING:

WM 1-800-972-4545/978-436-9178
Recycler Coordinator: 978-671-1337

BOARD OF HEALTH: Householders shall report to the Board of Health all cases of communicable disease unless a physician is in attendance. Subsurface sanitary disposal systems installation and repair must be inspected by the Health Department.

DOG LICENSES: All dog licenses expire December 31. A dog shall be licensed when three (3) months old.
A valid rabies certificate must be shown
before a license can be issued. Proof of spaying/neutering must be provided.

FEE:

Male/Female \$10.00,
Neutered/Spayed \$6.00

Penalty Fee: Any dog three months of age or older not licensed by MARCH 10 will have a \$10.00 late fine added to the license fee.

BOARD OF APPEALS:

First and third Wednesday

BOARD OF HEALTH:

First Monday each month

SELECD:

First & Third Monday

SCHOOL COMMITTEE:

Second & Fourth Monday

PLANNING BOARD:

Second & Fourth Monday

TAX RATE: For Fiscal Year 2021

\$13.00 per \$1,000.00 residential

\$29.89 per \$1,000.00 commercial/industrial

OFFICIALS 7-01-20 thru 6-30-2021

ELECTED TOWN OFFICIALS

<u>OFFICE</u>	<u>TERM EXPIRES</u>
SELECT BOARD:	
Daniel L. Burns- Chair	April, 2022
Andrew N. Deslaurier-Vice Chair	April, 2024
Michael S. Rosa	April, 2023
Kimberly J. Conway	April, 2022
John J. Burrows	April, 2023
MODERATOR	
John J. McKenna	April, 2024
TOWN CLERK	
Shirley E. Schult	April, 2023
REG. VOCATIONAL SCHOOL DISTRICT COMMITTEE MEMBERS	
Ronald Fusco	April, 2023
Taryn Gillis	April, 2024
BILLERICA HOUSING AUTHORITY	
Carol Ford, Chair	April, 2022
Martin E. Conway	April, 2026
James F. O'Donnell, Jr., Treasurer	April, 2025
John C. Parker	April, 2024
Marie O'Rourke (Gov. Appt. 7/18)	Aug. 26, 2021
PLANNING BOARD	
Janet M. Morris	April, 2022
Michael A. Riley - Chair	April, 2022
Matthew K. Battcock	April, 2022
Christopher J. Tribou	April, 2024
Patricia C. Flemming. Secretary	April, 2023
Blake Robertson	April, 2023
Marlies Henderson	April, 2024
SCHOOL COMMITTEE	
Mark P. Efstratiou, Chair	April, 2023
Darlene M. Torre	April, 2023
Annette Famolare	April, 2022
Michael Domina	April, 2024
James F. Gately, Jr.	April, 2022

TOWN MEETING MEMBERS

Following 2021 Election

PRECINCT ONE

Term Expires 2024

Lisa Anne Charland
Teresa Nicole English
Kenneth Bryant English
David A. Gagliardi
Joanne M. Gagliardi
Larry Libby
Douglas J. Meagher
Paula M. Moriconi
Craig E. Rich

Term Expires 2023

Dorothy M. Callihan
Douglas Fogerty
Lorraine Lally
Bonnie MacNeil
Rino Moriconi
Joanne Sprague
Evan Steele

Term Expires 2022

John Cavicchio
John P. Gagliardi
Cathy Hertler
Keith D. Manning
John C. Parker
John P. Sullivan
Christopher J. Tribou

PRECINCT TWO

Term Expires 2024

Henry Boormeester, Jr.
Martin Boormeester
Lisa Michelle Botte
Kevin P. Conway
Andrew N. Deslaurier
Cheri Gargalianos
John R. Morrison
Ellen Day Rawlings

Term Expires 2023

John Coyne
Leah M. Gagnon
Robert E. Harrington
Judith S. McElhaney

PRECINCT FOUR

Term Expires 2024

Robert M. Correnti
Paul A. LaMarca
Anne M. Noel

PRECINCT TWO -cont.

Term Expires 2023

Philip J. Newfell
Al Ramos
Martha E. Spindler

Term Expires 2022

Rachel Hunt Durocher
Edward J. Giroux
Sandra Giroux
John H. Kleschinsky
Mary R. Riley
Wayne F. Smith
Stephen J. Wanamaker

PRECINCT THREE

Term Expires 2024

John F. Gray, Jr.
Michael Riley
Vicky Roy
Robert E. Roy
Elaine C. Tuccelli

Term Expires 2023

Brenda D. Komarinski
John LaFauci
Mary Leach
Randy J. Meuse
Carole Reardon

Term Expires 2022

Mark F. Komarinski
Sandra J. Lee
Carol A. Leibovitz
Lerry M. Longo
Jay T. Moore
Maryanne J. Perry

PRECINCT FIVE – cont.

Term Expires 2022

Patricia E. Battcock
Melissa R. Braga
Doreen Healy

George Edward Noel

Term Expires 2023

Sandra M. Doherty

Maureen J. O'Donaghue-Sack

Scott Rogers

Ilya Shestopalov

Term Expires 2022

Frank J. Dalessandro

Andrew Kucyn

Arthur Lavita

Susan McAdams-Rogers

Michael T. Meagher

Matthew K. Battcock, Elected by Caucus

Lora E. Bojsen, Elected by Caucus

Per Bojsen, Elected by Caucus

Brian P. Kelly, Elected by Caucus

Stewart W. Wilson, Elected by Caucus

Lamia M. Wilson, Elected by Caucus

Chacko Matthew, Elected by Caucus

Susan M. Lynch, Elected by Caucus

PRECINCT FIVE

Term Expires 2024

Salvatore A. Dampolo

Michael A. Fantasia

Maura Gaffey

Charles V. Grillo, Jr.

Scott Edward Morris

Michael F. Parker

Michael S. Rosa

Term Expires 2023

Vincent J. Cangiamila

Lauren K. Dechayne-Donati

Marion C. Depierro

John A. Faria

Shelley L. Rosenbaum-Lipman

Denise R. Salemme

Sheila R. Sartell

Robert O. McGowan

Janet M. Morris

Steven M. Rosa

Maura M. Sardella

PRECINCT SIX

Term Expires 2024

Cosmo D. Cavicchio, Jr.

Sandra B. Donovan

Caddy Maxwell Em

Donald F. MacDonald

Phyllis A. MacDonald

Francis X. O'Brien

Kristen Marie Sullivan

Term Expires 2023

Veronica Bayiates

David S. Coughlin

James K. Learned

Frederick Liberatore

Ryan K. Niles

Jennifer Normand

Joseph V. Russo

Bryan D. Wayne

Term Expires 2022

MaryLou Carney

Jean-Paul Durand

James E. Learned

James Reef

Blake Robertson

James A. Sullivan

Wendy L. Ings Witt

Michael Anastasia, Elected by Caucus

PRECINCT SEVEN**Term Expires 2024**

Vincent A. Amato, Jr.
Jacqueline M. Chaffins
Kenneth B. Glasser
Jodi Ann Hogan
Ralph J. McKenna
John Meneghini
Charistopher Ravin

Term Expires 2023

John E. Bartlett
Frank M. Busalacchi
Diane J. Depaso
John Healey
Bartley Hogan
Patrick Logue, Jr.
Theresa A. Logue

Term Expires 2022

Glenn S. Card
Mark P. Efstratiou
Mary K. McBride
Dianne Patten
Patricia Ann Payne
Alex Knight, Elected by Caucus
Edward S. Chando, Elected by Caucus

PRECINCT EIGHT**Term Expires 2024**

Michael Farrell
Barbara A. Flaherty
Lynne Forbes
William Forbes
Matthew Hrono
Charlene McCarthy
Joseph P. Shaw

Term Expires 2023

Carl L. Herrmann
Oren D. Hunt, Jr.
Elizabeth Leblanc
Kelley J. Sardina
Donna R. Spencer
Justine Whitfield

Term Expires 2022

Eric Anable
Joseph F. Donoghue
David L. Johnson
Elizabeth Patriquin
Allyson Romano
George J. Simolaris, Jr.
David T. Warren
Daniel Rosa, Elected by Caucus

PRECINCT NINE**Term Expires 2024**

Justin A. Damon
Patricia C. Flemming
William G. Greene, Jr.
Cynthia Keesler
John A. Mulloy
Guillermo Perez
Carol R. Rosa
Nicholas J. Rosa

Term Expires 2023

John Burrows
Albert H. Chin
George E. Dow
Annette Famolare
Cheryl L. Lally
James Patrick Lally
Carol A. Meyer

Term Expires 2022

Tiffany L. Carlson
Donald L. Damon, Jr.
Michele Deparasis
Anne M. Gallant
Robin E. Price
Stephen G. Regal
Grace M. Tucci

PRECINCT TENTerm Expires 2024

Kimberly J. Conway
Eric K. Gerade
Shawn M. Kerr
Katherine M. Mahoney
David Matthew Overton
Robert Peatfield.

Term Expires 2023

M. P. Chaffee
Laureen Knowles
Adam Gregg Vincent
Peter J. Vines

Term Expires 2022

Michael J. Doty
James F. Gately, II
Elaine J. Kunicki
Kathleen A. Peatfield
Michael Sandeffer
Paula M. Sullivan
Arthur Trepaney
Rebecca Gately, Elected by Caucus

PRECINCT ELEVENTerm Expires 2024

Thomas H. Conway, III
William F. King
Meredith Lovell
Joseph E. Silva

Term Expires 2023

Thomas P. Considine
Joseph F. Fiumara
Marlies Henderson
Barry N. Lombardo
Benjamin B. Perry
Scott W. Richards
Mary Ann Schafer

Term Expires 2022

Herve Albert Abrams
Lyle G. Aker
Daniel L. Burns
Kelly J. Domina
Michael A. Domina
Dina Favreau
Kathleen R. Rocheleau
Clare A. Fortune-Lad, Elected by Caucus
Janice L. Shanahan
Mark D. Lovell

APPOINTED TOWN OFFICIALS

TERM EXPIRES

CEMETERY COMMISSION

James F. O'Donnell, Jr.
Peter Blaisdell, Jr.
Paul Matthews

June 30, 2021
June 30, 2020
June 30, 2022

CONSTABLES

Steven Elmore
John Gray
Joseph Smith

June 30, 2021
June 30, 2021
June 30, 2021

TOWN MANAGER

John C. Curran

ASST. TOWN MANAGER

Cathleen B. O'Dea – Retired
Clancy Main

TOWN ACCOUNTANT

Paul Watson

June 30, 2022

TOWN COUNSEL

Labor Counsel –Kevin P. Feeley, Jr.
Town Counsel - Mark Reich, Kopelman & Paige, P.C.

ASST. TOWN CLERK

Margaret Ryan

April, 2023

TREASURER/TAX COLLECTOR

John Clark

ASSISTANT TREASURER

Joseph P. D'Angelo

June 30, 2023

ASSISTANT TREASURER/COLLECTOR

Elaine Russo

June 30, 2022

MUNICIPAL BILLING DIRECTOR

Judy Dunn

June 30, 2023

DEPUTY TAX COLLECTOR

James M. Mount
Russell A. Kochune

Indefinite
Indefinite

PRINCIPAL ASSESSOR

Richard J. Scanlon, Retired May, 2021

June 30, 2023

ASSOCIATE ASSESSORS

John Speidel
Kathryn M. Matos

June 30, 2022
June 30, 2021

ASSISTANT ASSESSOR/ DATA COLLECTOR

Chad Theirault

June 30, 2023

BOARD OF HEALTH

Thomas Michael Grady, Secretary
Elizabeth Villar
Sandra Giroux, Chr.
Marie O'Rourke, Vice-Chr.
Robert G. Reader .

June 30, 2022
June 30, 2021
June 30, 2023
June 30, 2022
June 30, 2021

DIRECTOR OF PUBLIC HEALTH

Kristal Bennett

ENVIRONMENTAL AFFAIRS DIRECTOR

Isabel Tourkantonis – Director of Conservation

SPECIAL HEALTH AGENT (Issuing of Burial Permits)

Frank Burns
Dean Laurendeau

HEALTH INSPECTORS

Gary Courtemanche – Health Agent
Phavy Alin Pheng – Health Agent
Shelagh Collins – Health Agent
Christine West - Public Health Nurse
Michael Higgins – Special Agent for Board of Health

IT DIRECTOR

Christopher Bartlett

VETERAN'S AGENT

Joseph Ruggiero

POLICE CHIEF

Daniel C. Rosa, Jr.,
Station: 6 Good Street (671-0900)

FIRE CHIEF

Robert C. Cole
Station: 8 Good Street (671-0941)

SAFETY OFFICER

Sgt. Steven Elmore, 6 Good Street

BUILDINGS COMMISSIONER

Mark LaLumiere

PLUMBING/GAS INSPECTOR

Edward J. Sullivan

ELECTRICAL INSPECTOR

Daniel Vitale

LOCAL INSPECTOR

David Lenzie – Retired 1/2021
Christopher Guerrieo
Andrew Ungerson – Appt. 6/2021

DIRECTOR OF PUBLIC WORKS

Abdul H. Alkhatib

June 30, 2024

TOWN ENGINEER

Kelley J. Conway

PLANNING DIRECTOR

Denise McClure, Planning Director

RECREATION DIRECTOR

David Grubb

SOLID WASTE SUPERINTENDENT

Stephen C. Robertson

SUPERINTENDENT OF WASTEWATER DIVISION

Jeff Kalmas

SUPERINTENDENT OF WATER WORKS

John McGovern

TREATMENT PLANT CHEMIST

John Sullivan

SUPERINTENDENT OF HIGHWAYS

Edward Tierney

SUPERINTENDENT OF CEMETERIES/ PARKS & TREES

Everett Crotty

PROCUREMENT OFFICER

Town Manager

CIVIL DEFENSE DIRECTOR

William J. Laurendeau

FENCE VIEWER

Donald F. MacDonald

June 30, 2021

TREE WARDEN

Michael D. Haines

June 30, 2021

DOG OFFICER & ANIMAL INSPECTOR

Christine Gualtieri

Ashley Chmiel

Casey Smith

MIDDLESEX CANAL COMMISSION

Alec Ingraham - Alternate

Nicholas Giannotti

Debra Fox, Alternate

Charles S. Anderson

Richard Hawes

June 30, 2021

June 30, 2021

June 30, 2021

June 30, 2020

June 30, 2021

BOARD OF REGISTRARS

James H. Davis, Jr.
Donald H. Lovegrove
Michael J. Rea, Jr.

March 31, 2024
March 31, 2022
March 31, 2023

LOCAL AUCTION PERMIT AGENT

Town Manager

KEEPER OF THE LOCKUP

Daniel C. Rosa, Jr.

SEALER OF WEIGHTS & MEASURES

David Tilton (NMCOG) - (978) 454-8021

DEPUTY SEALER OF WEIGHTS & MEASURES

Maurice Lefebvre (NMCOG)

SUASCO RIVER STEWARDSHIP COUNCIL

Marlies Henderson
James "Trek" Reef, Alternate

SUBSTANCE ABUSE COORDINATOR

Michael Higgins

TOWN HISTORIAN

Alec Ingraham

CULTURAL COUNCIL - (formerly Arts Council)

Term of Office

2	Angela LoGuidice	June 30, 2021
3	Christine P. Donoghue, Chair	June 30, 2022
2	Bonnie Regan	June 30, 2022
1	Benjamin Perry	June 30, 2021
1	Christine Kiley	June 30, 2021
1	Martha Ho	June 30, 2021
1	Rachel Durocher	June 30, 2022
1	Jennifer Harris	June 30, 2022

BOARD OF APPEAL

Salvatore Dampolo	June 30, 2022
Anupam Wali	June 30, 2021
Michael Parker	June 30, 2023
Richard A. Colantuoni, Chair	June 30, 2023
Robert Accomando	June 30, 2021

ASSOCIATE MEMBERS:

Ralph J. McKenna	June 30, 2022
Michael Pendleton	June 30, 2023

BEAUTIFICATION COMMITTEE

Diane Dexter	June 30, 2020
Cynthia Hawes	June 30, 2021
Elaine Kunicki	June 30, 2021
Catherine Shubin	June 30, 2022
Richard Kunick	June 30, 2021
Dilip Patil	June 30, 2021

Michael Parker
EX-OFFICIO MEMBER:
TOWN MANAGER

June 30, 2023

CABOT LAND RE-USE COMMITTEE

Sandra Giroux, Selectmen's Appt.,	June 30, 2020
Robert M. Correnti - Housing Authority Rep.	June 30, 2022
David A. Gagliardi- Selectmen's Appt.	June 30, 2020
Donna Fitzgerald - Selectmen Appt.	June 30, 2022
Daniel Burns - Selectmen's Appt.	June 30, 2020
Blake Robertson - Planning Board Rep.	June 30, 2022
James Spinale - Recreation Rep.	June 30, 2021
Betsy Gallagher- Conservation Comm. Rep.	June 30, 2020
Mary McBride - Finance Committee Rep.	June 30, 2022
Michael S. Rosa, Selectman	June 30, 2021
Joshua C. Huffines - Selectmen's Appt.	June 30, 2022
Darlene Torre - School Comm. Rep.	June 30, 2020
Richard Lee - Selectmen's Appt.	June 30, 2021

COMMISSION ON DISABILITY

Daniel Burns, Selectman Town Official	June 30, 2021
Maria Martin - Secretary	June 30, 2022
Stephen Strykowski - Chairman	June 30, 2023
Arthur Torrey - Vice-Chairman	June 30, 2021
Raymond Ellis	June 30, 2022
John Polychrous	June 30, 2021
Lauren Norman	June 30, 2023

COMMITTEE ON RULES

(Elected 5/2021)

<u>Precinct</u>	<u>Name</u>	<u>T.M.M. Term</u> <u>Expires</u>	<u>Committee's Term</u> <u>Expired</u>
1	John P. Gagliardi	2022	2024
2	John H. Kleschinsky	2022	2022
3	Maryanne J. Perry	2022	2023
4	Andrew Kucyn	2022	2024
5	Michael A. Fantasia	2024	2022
6	David Coughlin	2023	2023
7	Christopher Ravin	2024	2024
8	Oren D. Hunt, Jr.	2023	2022
9	James Patrick Lally	2023	2023
10	Laureen Knowles	2023	2024
11	Dina Favreau	2022	2022

COMMUNITY PRESERVATION COMMITTEE

Richard Scanlon, Chief Assessor	
Douglas J. Meagher, Finance Committee Member	June 30, 2021
James F. O'Donnell, Jr., Housing Authority Appointee	June 30, 2021
Marlies Henderson, Conservation Appointee	June 30, 2023
Thomas H. Conway, III, Town Manager Appointee	June 30, 2021
Mary Leach, Select Board Appointee	June 30, 2022
Travis Brown, Historical Commission Appointee	June 30, 2023
Matthew Battcock, Planning Board Appointee	June 30, 2022

Joseph Fiumara, Recreation Appointee

June 30, 2022

CONSERVATION COMMISSION

Paul Hayes

June 30, 2021

Diane J. DePaso

June 30, 2022

Elizabeth Gallagher

June 30, 2021

Joanne Giovino

June 30, 2023

Marlies Henderson

June 30, 2021

John Bowen

June 30, 2023

Jeff Connell

June 30, 2022

Conservation/Land Use Assistant

Michael R. Devito

CONSTABLE (BONDED)

Guy gill

June 30, 2022

Richard E. Settle

June 30, 2021

David C. Babineau

June 30, 2022

COUNCIL FOR AGING

William Neeb

June 30, 2021

Barbara Flaherty

June 30, 2022

Stephen W. Strykowski

June 30, 2021

Joan DeOrio

June 30, 2021

Mary Riley

June 30, 2021

John Pellegrino

June 30, 2022

Richard Carroll

June 30, 2021

SELECT BOARD LIAISON

Michael Rosa

Daniel Burns

ALTERNATES:

Barbara Wittenhagen

June 30, 2021

Sandra Schiavo

June 30, 2021

Philip Doiron

June 30, 2022

EX-OFFICIO NON-VOTING MEMBERS

Golden Agers; Senior Citizens of Billerica; Greenwood

Senior Citizens' Club; Carriage Club; Board of Health;

Housing Authority Chairman; Veterans' Services Agent

CO-ORDINATOR FOR COUNCIL FOR AGING:

Jean P. Bushnell

ELECTRONIC VOTING IMPLEMENTATION COMMITTEE

Kevin P. Conway

June 30, 2021

Donald Damon

June 30, 2021

James K. Learned

Theresa Logue

David Coughlin

James Reef

FINANCE COMMITTEE

Douglas Fogerty

June 30, 2023

David Gagliardi - Chair

June 30, 2022

Philip J. Newfell

June 30, 2024

Cheri Gargalianos

June 30, 2023

Patrick Logue

June 30, 2024

Mary K. McBride, Secretary

June 30, 2022

Rino Moriconi

June 30, 2022

Donald Damon	June 30, 2021
John Mulloy	June 30, 2024
Douglas Meagher – Vice Chair	June 30, 2023
John H. Kleschinsky	June 30, 2023
ASSOCIATE MEMBERS:	
1 st Kelley Sardina	June 30, 2023
2 nd Sharon Healey	June 30, 2022
MEMBER EX-OFFICIO:	Town Accountant

FINANCIAL & COMPLIANCE AUDIT COMMITTEE

Richard DelGaudio, Moderator's Appointee	June 30, 2024
Patrick Logue, Finance Committee Appointee	June 30, 2021
David Gagliardi, Finance Committee Appointee	June 30, 2023

HIGH SCHOOL BUILDING COMMITTEE

Timothy Piwowar – Superintendent	
Robin Hulsoor – Asst. Superintendent of Finance and Business	
John C. Curran – Town Manager	
Mark LaLumiere – Inspector of Buildings	
Kevin McCarthy - Director of School Maintenance	
Thomas Murphy - Billerica Memorial High School Principal	
Daniel Burns – Selectman	June 30, 2020
David Gagliardi, Finance Committee Member	June 30, 2023
Kevin Heffernan – Knowledge of construction, engineering	June 30, 2020
Gary DaSilva – Planning Bd. Appointee	June 30, 2023
John Magliozzi – Mem. High Teacher	June 30, 2023
John Burrows- Moderator Appointee	June 30, 2023
Mark Efstratiou, School Committee Appointee	June 30, 2023
Marc Lombardo - Moderator Appointee	June 30, 2020
Richard Colantuoni - Moderator Appointee	June 30, 2023

HISTORIC DISTRICT COMMISSION

Charlene McCarthy	June 30, 2023
John J. McKenna (Lawyer)	June 30, 2022
William Bulens	June 30, 2021
Travis Brown	June 30, 2023
Barbara Flaherty	June 30, 2021
Michael J. Rea, Jr., Chrm.	June 30, 2023
Mary K. McBride	June 30, 2022

ALTERNATES

David Gagliardi	June 30, 2021
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EX-OFFICIO MEMBER - Town Planner

HISTORICAL COMMISSION

Andrew Boisvert	June 30, 2022
Matt Hrono	June 30, 2021
Matthew Moll	June 30, 2021
Alec Ingraham, Chrm.	June 30, 2021
Travis W. Brown	June 30, 2022
Mary Leach	June 30, 2023

HOUSING PARTNERSHIP COMMITTEE

Michael S. Rosa, Selectman	June 30, 2023
Kimberly J. Conway – Selectman	June 30, 2021
Matthew Battcock - Planning Board Appointee.	June 30, 2023
Douglas Meagher – Finance Committee	June 30, 2023

LONG RANGE MASTER PLAN OVERSIGHT COMMITTEE

Mary McBride, Finance Committee Appointee	June 30, 2023
Michael S. Rosa, Selectmen's Appointee	June 30, 2021
Michael Riley, Planning Board Appointee	June 30, 2023

MUNICIPAL AFFORDABLE HOUSING TRUST

Aka Billerica Affordable Housing Trust

Teresa English	June 30, 2023	
Cathy Hertler	June 30, 2023	Catherine
Shubin – Realtor	June 30, 2021	
Martin E. Conway	June 30, 2021	
Carol Ford – Housing Authority	June 30, 2021	
Michael S. Rosa - Selectman	June 30, 2022	
John J. Burrows – Selectman	June 30, 2022	
Robert M. Correnti - Housing Director, Ex-Officio Member		
John C. Curran – Town Manager, Ex-officio Member		

PERSONNEL BOARD

Vacant

PUBLIC LIBRARY BOARD OF TRUSTEES

Thomas Aquavella	June 30, 2021
Robert M. Correnti	June 30, 2021
Maggie Deslaurier	June 30, 2023
Michelle Ovalle	June 30, 2023
Martin E. Conway	June 30, 2022
Ellen D. Rawlings	June 30, 2022
Elizabeth Gottman-Hanrahan	June 30, 2023
Katrina Kruse	June 30, 2023
Suzette Ciancio	June 30, 2020

Treasurer: (per Chapter 320 - Acts & Resolves of 1978). "...the Town Treasurer shall act as treasurer of such board of trustees...."

LIBRARY Director: Janet Hagman

RECREATION COMMISSION

John E. Bartlett, Chrm.	June 30, 2020
Donald Casey	June 20, 2020
Anthony DaFonseca	June 30, 2022
Joseph Fiumara	June 30, 2022
John Bertolucci	June 20, 2022
Ruth A. Mingo	June 30, 2022
Cynthia Rich, Sec.	June 30, 2021
James Spinale	June 30, 2021

DIRECTOR - David Grubb

ASSISTANT DIRECTOR – Anastasia Lecuive

PROGRAM COORDINATOR - Brian Leary

SCHOLARSHIP FOUNDATION COMMITTEE

Timothy Piwowar – Supt. of Schools,	
Thomas Considine	June 30, 2020
Jim Spinale	June 30, 2021
Sharon Ferris – Corresponding Sec.	June 30, 2023
Darlene Torre	June 30, 2022
Catherine Shubin	June 30, 2022

Meredith Lovell	June 30, 2020
Patricia Membrino – Recording Secretary	June 30, 2021
Eric Anable	June 30, 2021
Theresa Logue	June 30, 2021
John J. McKenna	June 30, 2022
James Gately	June 30, 2021
Brenda MacDonald	June 30, 2023
Michael S. Rosa	June 30, 2022
Lawrence Norman	June 30, 2022
Albert Tassone	June 30, 2023

VOLUNTEERS:

Dorothy M. Murray
Elizabeth Berube
Dale Hoar
Marc Lombardo
Michael Ouellette
Patricia Annunziato
Helen Mastroianni
Jaclyn Piscatelli
Patricia Battcock
Helen Potter

STREET ACCEPTANCE & DISCONTINUANCE COMMITTEE

Kimberly J. Conway - Selectman	June 30, 2022
Michael Riley, Planning Board Member	June 30, 2021
Rino Moriconi - Finance Committee	June 30, 2021
Kelley Conway - Town Engineer	June 30, 2021
Denise McClure - Town Planner	

SUBSTANCE ABUSE PREVENTION COMMITTEE

Jill Geiser, Chair	School Supt. Appt.	June 30, 2023
Bernie McCann	School Supt. Appt.	June 30, 2022
Darlene Torre	Selectmen Appt.	June 30, 2021
Ian Taylor	Police Chief's Appt.	June 30, 2024
Edward Peterson	Police Chief's Appt.	June 30, 2024
John F. Gray, Jr., Treas.	Fire Chief's Appt.	June 30, 2023
Michael Hall	Fire Chief's Appt.	June 30, 2023
Dina M. Favreau	Board of Health Appt.	June 30, 2021
Michael A. DeLucia	Board of Health Appt.	June 30, 2021
Margaret Joyce	ShawsheenTech. Appt.	June 30, 2022
Joanne Barry	Selectmen Appt.	June 30, 2023

ASSOCIATE MEMBERS:

Karen Mooney
Colleen Tracy
Stephen Moss
Helen E. Devlin

TOWN MEETING WARRANT ACTION COMMITTEE

William G. Greene, Jr.	June 30, 2022
Cosmo Cavicchio-Recording Secretary	June 30, 2020
Anthony Ventresca	June 30, 2022
Diane Dorrington – Vice. Chrm.	June 30, 2021

YANKEE DOODLE BIKE PATH COMMITTEE

Andrew N. Deslaurier, Selectmen's Appt.	June 30, 2023
Edward J. Giroux, Finance Com. Appt.	June 30, 2022

Jack Bowen, Conservation Comm. Appt.	June 30, 2022
Joseph Fiumara, Recreation Comm. Appt.	June 30, 2022
Shelley L. Rosenbaum-Lipman, Moderator's Appt.	June 30, 2022
Ellen Rawlings, Moderator's Appt.	June 30, 2022
Michelle Lenox , Moderator's Appt.	June 30, 2020

BOWERS FUND

<u>APPOINTED</u>		<u>TERM EXPIRES</u>
10/2011	Jeanne LeGallo	10/2016
10/2012	John G. Conway	10/2017
10/2013	Eleanor Shea	10/2018
10/2014	Michael J. Rea. Jr.	10/2019
10/2015	Marie O'Rourke	10/2020
10/2016	Jeanne LeGallo	10/2021
10/2017	John G. Conway	10/2022
10/2018	Eleanor Shea	10/2023
10/2019	Michael J. Rea, Jr.	10/2024
10/2020	Marie O'Rourke	10/2025

PRECINCT CHAIRPERSONS & CLERKS

PRECINCT 1

Chairman: Joanne Gagliardi
Clerk: Joanne Sprague

PRECINCT 2

Chairman: Stephen J. Wanamaker
Clerk: Sandra J. Giroux

PRECINCT 3

Chairman: John F. Gray, Jr.
Clerk: Maryanne J. Perry

PRECINCT 4

Chairman: Arthur LaVita
Clerk: George E. Noel

PRECINCT 5

Chairman: Michael Parker
Clerk: Janet Morris

PRECINCT 6

Chairman: Cosmo D. Cavicchio, Jr.
Clerk: James Reef

PRECINCT 7

Chairman: Patrick Logue, Jr.
Clerk: Jodi Hogan

PRECINCT 8

Chairman: Charlene McCarthy
Clerk: Barbara Flaherty

PRECINCT 9

Chairman: Stephen G. Regal
Clerk: Nicholas Rosa

PRECINCT 10

Chairman: James F. Gately
Clerk: Katharine Mahoney

PRECINCT 11

Chairman: Barry N. Lombardo
Clerk: Marlies Henderson

STANDING COMMITTEES

(Appointed by either the Selectmen or Town Manager)
(Not Town Meeting -created Committees)

BATV BOARD OF DIRECTORS

Ellen Day Rawlings

June 30, 2024

BILLERICA COMMUNITY ALLIANCE

All Selectmen

CABLE ADVISORY COMMITTEE

Robert M. Correnti

June 30, 2023

Kevin P. Conway

John S. Renoni,

Arthur L. Torrey

Edward J. Giroux., Selectman

June 30, 2022

Kimberly J. Conway, Selectman

June 30, 2022

CAPITAL ASSET MANAGEMENT, DIVISION OF (DCAM)

John Curran, Town Manager

Daniel S. Rosa, Police Chief

Peter Katougian, Middlesex County Sheriff

CAPITAL NEEDS ASSESSMENT COMMITTEE

Michael S. Rosa

Daniel L. Burns

Joan DiIorio, Council on Aging

John Bartlett, Recreation Committee

David Gagliardi, Finance Committee

Michael Riley, Planning Board

Martin Conway, Housing Authority

Mark Efstratiou, School Committee

Paul Hayes, Conservation Commission

Ex-Officio Members

John Curran, Town Manager

Denise McClure, Planning Director

Jean P. Bushnell, COA Director

David Grubb, Recreation Director

Timothy Piwowar, superintendent of Schools

Robert Correnti, Executive Director of Housing authority

Mark LaLumiere, Building Commissioner

COMMUNITY FUNDS (Nortel, Jabil, Flir, Bruker Optical, Bruker BioSpin, BCGE))

All Selectmen

ELDERLY AND DISABLED TAXATION FUND COMMITTEE

Richard Scanlon, Principal Assessor

John F. Clark, Treasurer/Collector

KENT FUND

John Burrows

June 30, 2021

Michael S. Rosa

June 30, 2021

LOWELL REGIONAL TRANSIT AUTHORITY

Andrew Jennings

June 30, 2022

MIDDLESEX COUNTY SELECTMEN'S ASSOCIATION

All Selectmen

NORTHERN MIDDLESEX COUNCIL OF GOVERNMENT

Andrew N. Deslaurier, Selectman

June 30, 2021 Christopher

Tribou, Planning Board Rep.

June 30, 2022

Mary K. McBride, Associate Member

OPEN SPACE & RECREATION

Michael S. Rosa, Selectman

June 30, 2023

John E. Bartlett, Recreation Appt.

June 30, 2022

Marlies Henderson - Planning Board Appt.

June 30, 2023

Jack Bowen, Conservation Com. Rep.

June 30, 2021

Justin Damon, Selectmen's Appointee

June 30, 2022

Michael Parker, Selectmen's Appointee

June 30, 2023

Matthew Moll – Selectman Appt.

June 30,

2021

PROJECT ADVISORY COUNCIL – (ROUTE 3 WIDENING COMMITTEE)

John Curran, Town Manager

SIGN BY-LAW SUB-COMMITTEE

Michael S. Rosa, Selectman

June 30, 2021

Daniel Burns, Selectman

June 30, 2021

STRATEGIC FINANCIAL PLANNING COMMITTEE

Robert M. Correnti

TAX FORECLOSED PROPERTY CUSTODIAN

John F. Clark, Treasurer

TOWN/SCHOOL FISCAL SUBCOMMITTEE

Michael S. Rosa

June 30, 2021

Andrew N. Deslaurier

June 30, 2021

TRAFFIC MANAGEMENT COMMITTEE

Center	John Gagliardi	June 30, 2022
West	Christopher Tribou	June 30, 2021
East	Eric Gerarde	June 30, 2021
North	Joseph Fiumara	June 30, 2022
Nutting Lake & South	Daniel MacDonald	June 30, 2021
Pinehurst	Richard Lee	June 30, 2021
Robert Cole	Fire Department	
Kelley Conway	T. Eng., DPW, Administration/Engineering	
Steve Robertson	DPW, Highway	
Steven Elmore	Safety Officer, Police Dept.	
Vacancy	School Dept.	June 30, 2021
Blake Robertson	Planning Board	June 30, 2023
John Burrows	Selectman	June 30, 2021
VACANT	Billerica Plan	June 30, 2021

WATER/SEWER OVERSIGHT BOARD

David Gagliardi	June 30, 2020
Kimberly Conway, Selectman	June 30, 2021
Carol Reardon	June 30, 2023

Town Manager & Board of Selectmen

Fiscal Year 2021 saw many major initiatives begin and others come to a close. Even in the midst of a global pandemic the Town was hard at work for the residents of Billerica.

In last year's report Town Meeting had just approved funding for the Pinehurst Fire Station. During FY21 the building started to take shape. As you can see in the picture's the Town held a groundbreaking for the community and fire fighters at the start of construction! Also, pictured is the demolition of the old structure. Finally, you can see the construction fence around the outline of a new building. This project is slated to be completed in the next fiscal year. This will be a great new home for our fire fighters and a well needed upgrade for the Pinehurst neighborhood.

This was not the only change in the Pinehurst section of Billerica. The Old Ditson School was demolished during this Fiscal Year.



As this fiscal year was coming to a close the building had been completely demolished and a brick giveaway ceremony was going to be taking place in the next few weeks. This would allow residents to say a final good bye and take a piece of Billerica history



with them. The Vining School was also being demolished at the same time as the Ditson. The Vining School started after the Old Ditson and was still in the process of being abated.

The renovation and restoration of the Howe School had also started taking place. During this fiscal year the Town was able to put the construction project out to bid and start inside demolition of the building. This project came in on bid



but with the volatility of the market due to the pandemic there is some concern about cost over runs.

The Town also saw progress on the Peggy Hannon – Rizza Recreation Complex. The project team has been hard at work getting ready to send the project out to bid. The community is very excited about the project and it should be completed sometime in October of 2022. Take a peek at the rendering attached.

The Select Board has also accomplished many of their goals during this fiscal year. One of their major initiatives has been accessibility, safety, and increasing participation in government. During a time when most people wanted to “social distance” the Select Board thought how can we bring people together safely and effectively. They asked the Town to look into a hybrid meeting setup. This would allow residents to participate in meetings from the comfort of their own home. Community members who had child care issues no longer have to find a babysitter to speak at a meeting. If you are stuck at work late you still can zoom in and join the discussion. This is an accomplishment that will last long into the future.

Similarly, the Select Board wanted to hear from voices of all ages – this included the youth! The Select Board worked with members of the Billerica High School and Shawsheen Tech to create the Billerica Youth Council. This group will help bring a different perspective to the Board.

The Select Board has also been a strong supporter and advocate for more testing, vaccines clinics, and the business community in Town. With their support the Town was even able to hold a carnival for a kids vaccine clinic as well as waiving fees for restaurants and other license holders.



Without their guidance and support many other projects would have never heard the starting gun or seen the finish line. Last fiscal year and this upcoming fiscal year the Town will begin working on or has already started working on the Bay Circuit Trail at Cider Mill, Free Book Giveaway, Free Desk Giveaway, Textile Recycling, the Food Pantry re-homing, and the purchase of the Masonic Hall. It has been a great year for the Select Board, and we look forward to what Fiscal 2023 will bring!

Town Accountant

The following reports reflect the financial position of the Town of Billerica as of June 30, 2021.

Finance Committee Reserve:

The Finance Committee voted the following transfers from the Reserve Fund Accounts during fiscal year 2021:

On March 23, 2021, the Finance Committee voted to transfer \$75,000 from the Finance Committee Reserve to Town Court Judgements to cover the costs resulting from the settlement of a civil action.

The balance remaining in the Reserve Fund Accounts at June 30:

General Fund	\$ 9,520
Water Enterprise	\$ 83,000
Sewer Enterprise	\$ 83,000

Sincerely,

Paul Watson, Town Accountant

Treasurers Office

ANNUAL REPORT OF THE TREASURER/COLLECTOR

TREASURER/COLLECTOR'S OFFICE

FISCAL YEAR 2020

Reconciliation of Treasurer's Cash

Fiscal Year Ended June 30, 2020

Treasurer's Cash Balance - July 1, 2020	96,139,637.01
Cash Receipts - FY 2021	266,805,645.85
Cash Disbursements - FY 2021	-250,450,532.92
Treasurer's Cash Balance - June 30, 2021	112,494,749.94

Location of Cash on Hand - June 30, 2020

Northern	6,281,610.47
MMDT	59,192.14
Bank of America	21,940,405.64
Century Bank	761,225.19
Cooperative of Cape	1,036,212.96
Eastern Bank	250,749.27
Easthampton	266,603.69
Enterprise Bank	1,030,456.41
Fidelity Bank	241,599.87
Leader Bank	25,204,509.14
Newburyport	123,189.53
Peoples United	144,205.75
Stoneham Bank	1,535,752.90
Unibank	152,739.06
Trust Funds	53,560,822.68
Petty Cash	748.71
Total	112,590,023.41
In transit	-95,273.47
	112,494,749.94

	Principal	Income	Totals
Cemetery Funds			

Colby PC	0.00	0.00	0.00
Fox Hill Thompson 1	24,828.90	41,533.19	66,362.09
Fox Hill Thompson 2	3,510.69	5,972.37	9,483.06
Fox Hill	1,244,620.08	823,192.40	2,067,812.48
Gray	6,789.49	10,536.18	17,325.67
Old Hill	375.00	623.08	998.08
Faulkner	13,026.92	22,161.37	35,188.29
North Cemetery	21,903.00	37,235.20	59,138.20
South Cemetery	1,095.00	1,862.86	2,957.86
Subtotal - Cemetery	1,316,149.08	943,116.65	2,259,265.73

Funds for the Poor

Bowers	132,053.91	38,660.38	170,714.29
Elliot	10,281.69	28,534.07	38,815.76
Overseers of the Poor	21,297.50	41,939.28	63,236.78
Elderly/Disabled Fund	8,333.52	(1,039.25)	7,294.27
Subtotal - Funds For The Poor	171,966.62	108,094.48	280,061.10

Playground Funds

Kholrausch Playground Fund	10,000.00	5,303.17	15,303.17
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Library Funds

Faulkner	3,431.87	3,299.94	6,731.81
Library	2,542.17	7,085.41	9,627.58
Sherrin Memorial	4,036.99	4,349.07	8,386.06
Subtotal - Library	10,011.03	14,734.42	24,745.45

School Funds

Kent #10	37,653.82	3,175.07	40,828.89
Houghton	144,855.00	44,296.80	189,151.80
Sub-Total School	192,397.38	47,471.87	229,980.69

Beauty & Maintenance Funds

Common Seat	42.71	118.63	161.34
Jenkins Fountain	54.50	151.43	205.93
Watering Trough	73.81	204.98	278.79
Subtotal - Beauty & Maintenance	171.02	475.04	646.06

Various Purpose Funds

Kholrausch Scholarship	74,221.05	20,662.01	94,883.06
Abbot Singing Fund	2,433.44	6775.03	9,208.47
Museum Fund	37,584.14	12,360.10	49,944.24

Drug Proceeds	94,907.55	33,153.20	128,060.75
Arts Lottery Funds	18,943.30	(862.96)	18,080.34
Veterans			
Korean War Veterans	8,131.73	3,078.54	11,210.27
Stabilization Funds			
Stabilization Funds	3,338,129.86	2,036,714.23	5,374,844.09
Stabilization Fund - Land	400,034.18	220,501.06	620,535.24
School Stabilization	508,850.13	289,715.31	798,565.44
Debt Stabilization	19,247,239.03	4,046,578.46	23,293,817.49
Total - Stabilization Funds	23,494,253.20	6,593,509.06	30,087,762.26
	25,425,195.50	7,777,485.26	33,192,792.20
Health Care Trust			
Funds	10,185,709.58	595,303.02	10,781,012.60
OPEB	8,289,769.52	130,215.53	8,419,985.05
Scholarships - Endowments			
Allen, William	11,143.51	438.34	11,581.85
Ann Costanza	229.00	10.16	239.16
Billerica Arts & Crafts	1,705.00	329.95	2,034.95
Billerica Plan	0.00	0.00	0.00
Billy Fitt Memorial	7,951.08	11.64	7,962.72
Cerrato	65,985.00	4,139.75	70,124.75
Daniel Coneeny	22,765.14	31.94	22,797.08
Deborah Morrison Endowment	6,453.78	9.59	6,463.37
Donald Donati	20,806.66	30.00	20,836.66
Donovan Memorial	18,583.32	28.19	18,611.51
Foundation Endowment	132,504.46	26,998.65	159,503.11
George Lamantea	4,536.35	435.21	4,971.56
GE Sensing Scholarship	0.00	0.00	0.00
Karyn Button Memorial	11,118.16	16.35	11,134.51
Kathleen Higgins	0.00	0.00	0.00
Knights of Columbus	9,175.26	571.70	9,746.96
L. Robert DeSanctis	23,043.18	33.08	23,076.26
Lampson	28,940.97	1,709.83	30,650.80
Lawler	14,142.51	20.88	14,163.39
Lisa Tammaro Memorial	10,368.05	14.96	10,383.01
Lutheran Church	12,189.10	17.82	12,206.92
Major John Whyte Memorial	0.00	0.00	0.00
Mary Arekalian	14,858.79	562.85	15,421.64

Meagher Family	10,294.42	14.85	10,309.27
Nicola Micozzi	3,270.38	5.23	3,275.61
Phil Hefferman	15,621.63	22.16	15,643.79
Robert Carroll	16,021.18	22.86	16,044.04
Scott Dumont	17,537.99	24.78	17,562.77
Shayna Donovan	44,519.36	71.85	44,591.21
Shaunassy	13,224.49	12.90	13,237.39
Stewart	2,874.54	4.39	2,878.93
William F. Bird	1,086.44	72.06	1,158.50
William Bradley	30,341.50	4,948.62	35,290.12
Mark J. Rayner	0.00	0.00	0.00
Robert Loranger	0.00	0.00	0.00
James Couet	10,636.10	(200.79)	10,435.31
Subtotal - Scholarship - Endowments	581,927.35	40,409.80	622,337.15

Scholarship Funds

Billerica Chiropractic #88	0.00	0.00	0.00
Cabot Corp #33	8,339.87	56.64	8,396.51
Costello #90	0.00	0.00	0.00
Class of 2006 #47	0.00	0.00	0.00
Class of 2007 #48	0.00	0.00	0.00
Class of 2008 #49	0.00	0.00	0.00
Class of 2009 #54	0.00	0.00	0.00
Class of 2010 #60	0.00	0.00	0.00
Class of 2011 #77	0.00	0.00	0.00
Class of 2012 #84	72.80	(72.80)	0.00
Class of 2013 #93	0.00	0.00	0.00
Class of 2014 #107	0.00	0.00	0.00
Class of 2015 #115	74.85	(83.25)	(8.40)
Class of 2016 #116	5.64	1,381.24	1,386.88
Class of 2017 #121	0.00	0.02	0.02
Class of 2018	0.00	0.34	0.34
Class of 2019	0.00	11.68	11.68
Class of 2020	26.33	535.46	561.79
Class of 2021	9,281.47	652.99	9,934.46
Class of 2022	5,581.52	427.46	6,008.98
Class of 2023	5,357.26	309.33	5,666.59
Class of 2024	6,621.15	351.83	6,972.98
Class of 2025	2,486.34	127.72	2,614.06
Class of 2026	4,281.01	149.64	4,430.65
Class of 2027	2,888.78	102.77	2,991.55
Class of 2028	2,811.86	86.00	2,897.86
Class of 2029	1,478.66	43.13	1,521.79
Class of 2030	1,322.09	33.58	1,355.67
Class of 2031	901.88	18.40	920.28

Jos. A. Sarno Memorial	0.00	4.14	4.14
Michael Picardi IV Memorial	39,285.80	213.63	39,499.43
Eldora Ferren Memorial #55	363.47	9.23	372.70
Frank Altobelli #57	10,487.34	57.27	10,544.61
Gladys Gratton #73	19,683.59	119.10	19,802.69
Jeff Calnan Memorial #58	450.00	234.90	684.90
Karen Jean Dingle #98	12,737.43	68.66	12,806.09
Karen Shagian #97	6,885.65	38.78	6,924.43
Krau Family #30	11,710.93	60.26	11,771.19
League Women Voters #29	12,360.76	65.85	12,426.61
Locke Middle School #37	4,383.32	163.40	4,546.72
Mark Bagshaw Memorial #113	28,760.14	148.28	28,908.42
O'Conner True Value #83	20,653.10	767.93	21,421.03
Parker School PTO #63	5,014.76	32.63	5,047.39
Ryan Strandberg #82	0.00	1.21	1.21
Sons of Italy #62	17,243.99	103.71	17,347.70
School Foundation #25	136,762.19	827.61	137,589.80
Glendon Grover	1,659.19	15.39	1,674.58
Gerald Jacobs	146,607.90	633.05	147,240.95
Meagan Sullivan	27,799.63	52.33	27,851.96
Ida Lippsett	1,460.31	56.26	1,516.57
Elaine Lally	30,140.64	172.71	30,313.35
Adelaide Breed Bayrd	9,421.09	237.45	9,658.54
Subtotal- Total - Scholarship Funds	595,402.74	8,215.96	603,618.70
 Grand Total - All Scholarship Funds	 1,177,330.09	 48,625.76	 1,225,955.85
 Subtotal Trust Funds	 45,078,004.69	 8,551,629.57	 53,619,745.70
Add/Ded: Transfers in transit			(58,923.02)
Total Trust Funds	45,078,004.69	8,551,629.57	53,560,822.68

Respectfully Submitted,

John F.
Clark

Billerica Public Schools



Billerica Public Schools

365 Boston Road
Billerica, MA 01821
(978) 528-7908

Annual Town Report
Year Ending June 30, 2021

SCHOOL COMMITTEE 2020-2021

Mr. Mark Efstratiou
Chairperson

Ms. Darlene Torre
Vice-Chair

Mr. James Gately
Secretary

Ms. Annette Famolare
Member

Ms. Michael Domina
Member

ADMINISTRATION

Superintendent of Schools
Mr. Timothy Piwowar

Assistant Superintendent
Dr. Jill Geiser

Director of Finance and Operations
Mrs. Robin Hulsoor

Billerica Public Schools District Improvement Plan 2020-2021

Vision Statement for the Billerica Public Schools:

All students will learn when they have high quality teachers, supportive environments, and rigorous and relevant curriculum, within a culture of trust.

Theory of Action:

If we commit and have the courage to **CARE**:

COMMUNITY – fostering collaboration and partnerships

ATMOSPHERE – welcoming, safe, and respectful for all

RIGOR AND RELEVANCE – preparing our students for college and career in the ever-changing global society

EXCELLENCE AND EQUITY – promoting and celebrating the inherent dignity of all

....then we will create a culture in which each member of the community becomes empowered to reach his or her intellectual, social, and emotional potential.

The Theory of Action is a plan to accomplish the mission and reach the vision of the Billerica Public Schools.

Primary Goal of the District Improvement Plan

The primary goal of the District Improvement Plan is to determine year-long goals to support the implementation of the Billerica Public Schools Strategic Plan. Through the development of action plans with targeted completion deadlines along with evidence of completion, the attainment of each of the goals becomes an achievable reality. The District Improvement Plan was created through a collaborative effort among teachers, principals, curriculum coordinators, the assistant superintendents and the superintendent. The process evolved over the course of several months, and the goals are continuously being reviewed and revised as part of an ongoing cycle of inquiry for continuous improvement.

Objective 1: Ensure that curriculum is vertically aligned and articulated K-12 on an ongoing basis.

- **Initiative 1:** Annually review, revise and publish the curriculum revision cycle, PreK-12
- **Initiative 2:** Ensure the articulated curriculum is the taught curriculum
- **Initiative 3:** Establish the coherence and connections within and among the curriculum areas
- **Initiative 4:** Continue to revisit curriculum as Massachusetts Curriculum Frameworks or national standards are revised

Objective 2: Continue to strengthen and support instructional practices in literacy and inquiry-based problem solving.

- **Initiative 1:** Ensure that all educators implement inquiry-based instructional practices in classrooms
- **Initiative 2:** Ensure that all educators across all disciplines are teachers of literacy
- **Initiative 3:** Implement peer learning opportunities at all levels, (horizontally, vertically and across disciplines) to improve professional practice and student outcomes

- **Initiative 4:** Strengthen and ensure that Professional Learning Communities foster collaborative inquiry promoting student learning and growth

Objective 3: Commit to a culture defined by high levels of engagement, motivation, and rigor.

- **Initiative 1:** Establish a collective understanding of what constitutes high levels of engagement and motivation in a rigorous academic environment
- **Initiative 2:** Identify effective practices and strategies for staff and students that promote high levels of engagement, motivation and rigor both within the Billerica Public Schools and beyond
- **Initiative 3:** Monitor instruction and climate to ensure high levels of engagement, motivation, and rigor
- **Initiative 4:** Develop students' perseverance, self-reflection, and grit

Objective 4: Continue to develop systems that support the academic and social/emotional needs of all students.

- **Initiative 1:** RTI - Continue to identify students and effectively match them with the appropriate multi-tiered interventions/supports
- **Initiative 2:** PBIS - Improve students' attitude towards school and decrease negative behaviors through continued implementation of PBIS in each school
- **Initiative 3:** Create multiple opportunities for parents/guardians to support students' learning at home and social emotional development

Annual Report of the Superintendent

Tim Piwowar

The 2020-2021 school year was unlike any other in the history of the Billerica Public Schools. In the previous March, the COVID-19 pandemic had brought the school year to a screeching halt for in-person instruction. While students and staff transitioned participated in remote learning for the remainder of that school year, as we prepared for the opening of school in September 2020, a whole new set of educational models had to be developed to support students, families, and staff. The majority of the 2020-2021 school year was spent delivering education for students in three different models of instruction: full in-person, hybrid, and full remote.

In the summer of 2020, a Return to School Working Group was formed to support the development of these models. This group, which included stakeholders from across the district, provided invaluable support in the development of the district's reopening plan. The members of this group have our thanks for the time, effort, and thoughtfulness they put into this effort:

- Mr. David Adams, Social Studies Teacher, BMHS
- Mr. Sean Bartlett, Facilities Manager
- Ms. Donna Bijeol, Paraprofessional, Parker ES
- Ms. Judy Butler, School Secretary, Parker ES
- Ms. Rebecca Chaffee, Billerica School Committee Member
- Ms. Lee Anne David, Lead Nurse
- Ms. Lynn Davis, English Language Learners Teacher, Hajjar ES
- Mr. Mark Efstratiou, Billerica School Committee Chair
- Ms. Amy Emory, Director of Special Education
- Mr. Sean Furbush, Student, BMHS
- Dr. Amit Gandhi, Parent, Ditson ES
- Mr. Anthony Garas, Principal, Locke MS
- Dr. Jill Geiser, Assistant Superintendent
- Ms. Amy Gerade, Parent, Kennedy ES, Locke MS
- Ms. Robin Hulsoor, Director of Finance and Operations
- Mr. John Kleschinsky, Parent, Hajjar ES
- Ms. April Laskey, Director of School Nutrition
- Mr. David Marble, Principal, Kennedy ES
- Mr. Bernie McCann, Director of Health Services and Wellness
- Ms. Denise Moore, Nurse, BMHS
- Mr. Thomas Murphy, Principal, BMHS
- Mr. Roy Nagy, Director, Billerica Boys & Girls Club
- Mr. Tim Piwowar, Superintendent
- Ms. Linda Rosa, Social Worker, Parker ES
- Ms. Sharon Subreenduth, Parent, BMHS
- Ms. Celine Swinford, Grade 1 Teacher, Ditson ES
- Ms. Carolyn Walsh, Parent, Kennedy ES, BMHS
- Mr. Bryan Wayne, Parent, Dutile ES
- Mr. Jason White, Special Education Teacher, Locke MS

Throughout both the development of the reopening plan and the school year itself, we adhered to four guiding principles in our decision-making:

- Our core value – that we ALL have a collective responsibility for ALL of our students – remains at the center of what we do
- Decisions that we make need to be guided by facts, science, and data – and in the context of Massachusetts, and Billerica in particular
- While we can work to improve remote learning, nothing can fully replace in-person instruction
- When we examine risk in the context of ensuring the safety of students and staff, we must take a balanced view of risk across multiple dimensions

Despite all the challenges of the 2020-2021 school year, in the coming pages you will read about all the successes our students, and we as a district, had throughout the year. That we were able to accomplish so much is a credit to the hard work and dedication of an amazing school community: our educators, support staff, administrators, students, and families all working together to do great things.

The Billerica Public Schools continues to be an amazing school system. When we come together, there is nothing that we are unable to accomplish as a community – and 2020-2021 certainly showed that.

Respectfully submitted,

Timothy G. Piwovar, Superintendent

Annual Report of the Assistant Superintendent

Jill Geiser, Ed.D.

The Billerica Public Schools continued to provide the children of Billerica with a high-quality education during a challenging 2020-2021 school year. With the pandemic in full force, Billerica Public Schools, along with other districts throughout the Commonwealth, needed to implement multiple learning models in order to provide a safe in-person learning experience as well as a full remote learning option for our students.

Planning for the 2020-2021 school year began in the summer with a reopening group that comprised of various stakeholders, including parents, community members, staff members, and students. This group, along with the district's leadership team, led the process to determine the learning models that were available, given the distancing requirements, and the safety precautions needed. With a mandated 6-foot distance, students attended school in a hybrid model, where students spent part of the week in school and part the week learning remotely. This allowed half the students to be in school at one time. Our students with the more significant needs (some students with disabilities and English Learners) were attended school 4 days a week. Wednesdays were scheduled for remote learning for all students to allow for deep cleaning of school buildings.

In addition to in-person instruction, the district provided a full remote program, which families could opt into. Staff members assigned to the full remote program delivered instruction, using curriculum designed specifically to provide instruction via an online format. The work accomplished by the BPS staff implementing these learning models during the 2020-2021 school year was unprecedented, as it required establishing new routines and school structures, devising ways to communicate remotely with students and families, determining new avenues of collaboration with colleagues, and understanding how to support students' learning and development in these adapted learning structures.

Professional Development

Although 2020-2021 brought us different learning models, professional development was still guided by priorities of standards and curriculum alignment, instructional practices, social emotional learning, and engagement, motivation and rigor. The district also kept in mind the elements of adult learning that frames professional development programming as collaborative, continuous, embedded in daily practice, and focused on student learning and development. For the 2020-2021 school year, the focus of professional learning was on learning new practices and/or rethinking current practices that fit with these different learning models.

- Technology – Because district brought in several technology software tools to support teaching, learning, and professional development included training on those tools. These tools included Peardeck, Kami, Edulastic, and Screencastify, among others, in addition to the Google Suite tools that are available to all staff.
- Balanced Literacy – The district continued to strengthen its balanced literacy programs in elementary and middle schools. During 2020-2021, the focus was on implementing writer's workshop.
- Math – In the spring of 2021, math interventionists started training on Zearn, a math digital learning tool. Zearn was then used as a curricular resource to support the delivery of interventions to students.

- Science – Professional development was provided by STEMScopes for continued support in implementing the program.
- Remote Learning Curricular Programs – To support the full remote learning program, the district brought in Curriculum designed for distance learning – Florida Virtual Learning School (FLVS) for elementary and Edgenuity for secondary. Professional development was provided to those staff members, who were using these curricular resources in the full remote program.
- Various Content Areas in HS – Teachers participated in departmental professional development sessions focused on delivering instruction for in-person and remote (synchronous and asynchronous), learning.
- Billerica Educator Institute (BEI) – BEI was again provided in the summer for staff on a range of topics that were designed by teachers, who then facilitated virtual workshops for their colleagues.
- In-Service Courses – Virtual courses were offered through the district catalogue to provide professional learning opportunities. Teachers were able to choose courses to take for credit and professional development points.

Grants

Title I: Title I of the Elementary and Secondary Education Act provides financial assistance to districts and schools with high percentages of children from low-income families to help ensure that all children meet challenging state academic standards. Federal Title 1 funds are currently allocated through statutory formulas that are based primarily on census poverty estimates and the cost of education in each state. In 2020-2021, our district received \$248,519 in Title I funds with four (4) schools qualifying for Title 1 funds: Ditson, Hajjar, Parker elementary schools and Marshall Middle School. With Title I interventionists, Billerica Public Schools provided targeted assistance to students in the Title 1 schools based upon a rank ordering system that takes into account in-class achievement, MCAS scores and teacher recommendation. Eligible students in both the hybrid and full remote learning models received interventions through the Title I program.

Title IIA: Billerica Public Schools received \$97,168 in Title IIA funds to provide high quality professional development for educators in the district. The purpose of the Title IIA grant is to increase student achievement through comprehensive district initiatives that focus on the preparation, training, recruitment, and retention of highly qualified educators. The district utilized these funds to provide a mentoring and induction program for teachers new to the district and professional development initiatives to support teachers in their professional learning and growth. Professional development programming, funded specifically by IIA, focused on student engagement as well as literacy and math content.

Title IVA: Billerica Public Schools received \$31,233 in Title IVA funds, a grant aimed to support a well-rounded education, improved conditions for student learning, and technology. The district used the funds to support after school programming for the Locke and Marshall middle schools, which offered a range of activities that embodied access to technology, academic intervention and enrichment, and wellness programming. Namely, funds supported summer programming to respond to the needs of students who were transitioning from elementary to middle school.

ESSER I: The purpose of the Elementary and Secondary School Emergency Relief fund (ESSER) was to support schools in providing in-person instruction to students with needed safety measures to mitigate the risk of COVID-19, to support remote learning where needed, and

to address learning gaps due to inconsistent schooling. Billerica Public Schools received an ESSER I allocation of \$352,744. This provided additional staffing in schools, including nurses and substitutes, interventionists for academic support, community outreach specialists position, and support for special education services.

CVRF: The Coronavirus Relief Fund (CVRF) provided funding to support costs of re-opening schools in the fall of 2020. The district's CVRF allocation of \$1,068,525 was used to purchase remote learning technology, personal protective equipment (PPE), cleaning supplies, and facilities improvements and upgrades.

Summary

The district continually strives to ensure high quality educational experiences for all students. Last year's schooling during the pandemic, involved working through challenges to provide students with educational programming to meet their needs through both in-person and remote learning. Throughout the year, collaboration between families and schools was critical even more than ever to ensure that student learning and growth continued through multiple learning models. If we remain committed to the vision that all students will learn when they have high quality teachers, supportive environments, and rigorous and relevant curriculum, within a culture of trust, then we will become the destination for education in the Merrimack Valley.

Respectfully submitted,

Jill Geiser, Assistant Superintendent

Annual Report from the Special Education Department

Amy Emory, Special Education Director

The Billerica Public Schools provide services for students with disabilities in accordance with the Federal Individuals with Disabilities Act (IDEA) and state (603 CMR 28:00) regulations. Billerica Public Schools provides a continuum of special education services and programs for students based on individual needs and team recommendations for students aged 3 through 21. Services and supports may include, but are not limited to, specially designed instruction for academics, speech/language, occupational therapy, physical therapy, behavior, counseling, social skills, and study skills. The district provides a continuum of services and programs to meet the individual needs of our students. In-district Individual Education Programs (IEPs) may include inclusion services as well as targeted intervention and therapy services outside of the general education classroom. Services are provided to students placed in full inclusion, partial inclusion, and substantially separate programs. Teachers and related service providers work collaboratively with parents/guardians of students identified as requiring special education services. In order to provide the highest quality education and set high expectations for our students, all input from staff and parents are considered in the development of determining the appropriate services and programming.

Special Education population data is reported annually to the Department of Elementary and Secondary Education (DESE) on October 1. The total special education population for the SY 20-21 for students aged 3-21 was 883 students or 19.3% of the total population of enrolled students.

During the 2020-21 school year, 283 students underwent an initial evaluation for special education. Of those students, 75% were found eligible. 318 students underwent a reevaluation to determine whether they continued to require special education services. 81% of those students were found eligible. The most common areas of educational disability categories that students are found eligible under include Developmental Delay, Specific Learning Disabilities and Communication.

During the 2020-2021 school year, a Tiered Focused Monitoring (TFM) Review took place by the Department of Elementary and Secondary Education (DESE). The focus for this review included the areas of student identification, IEP development, programming and support services, and equal opportunity. In total there were 32 standards reviewed in the process along with three additional performance indicators. These indicators included timelines for initial special education eligibility, transition from early intervention services to special education, and transition for students ages 14 and above. The final monitoring result was a rating of "Implemented" assigned to each of the 32 standards, meaning that the requirements of each standard were "substantially met in all important aspects" and no corrective action was required. The department was also found to be in compliance with the requirements of the three additional performance indicators.

Respectfully submitted,

Amy Emory, Special Education Director

Annual Reports for Curriculum and Instruction

Melinda Cripps – Director of Guidance
Christopher Dearbeck – Fine Arts Coordinator
Bernie McCann – Health and Wellness Coordinator
Marybeth Keane – K-7 Humanities Coordinator
Marian Dyer – 8-12 Humanities
James Sforza – K-7 STEM Coordinator
Bill Manchester – 8-12 STEM

School Counseling

Mindy Cripps, School Counseling Director

BMHS School Counseling, Grades 8 & 9

The 2020-2021 school year was a unique one for all due to the Covid-19 pandemic. The 8th/9th grade counseling team found new and different ways of addressing the academic and emotional needs of students, with an eye toward the additional challenges students were facing as a result of the pandemic. School counselors conducted one on one meetings with 8th and 9th graders over the course of the fall, as we always do, to get to know them and begin building a relationship. Many of these meetings were virtual because most students were only in school two days per week.

Since counselors were unable to offer the classroom lessons typically available in a non-COVID year, students received additional individual support from their counselors throughout the year. That support included, but was not limited to, the areas of organization and working effectively from home, the difficulty of transitioning to the high school and being in the building part-time, and emotional challenges such as feelings of isolation, illness, family struggles, etc.

School counselors also created the 8th and 9th Grade Google Classrooms to stay connected with students and share information. Support was also offered to parents, many of whom were feeling the stress of students learning remotely. Parents often needed support navigating new tools such as Google Classroom so they could support and monitor their child's productivity at home. In the spring, school counselors guided students through course selection for the following year, meeting with them both in person and online depending on what worked best for the student and their schedule. Throughout the year, counselors also held 504 and other parent meetings in a virtual format.

BMHS School Counseling, Grades 10-12

The 10-12 school counselors began supporting students at the end of August, as students started the school year either enrolled in the hybrid or full remote program. Counselors worked to ensure that student schedules were ready and students were on track to meet graduation requirements.

The college application processes began in September. The College Boot Camp was presented remotely and shared with both students and parents/guardians. School counselors met with seniors remotely and in person to ensure that they were on track for meeting deadlines. Counselors continued meetings throughout the year with seniors to ensure they were well-supported throughout their post-secondary planning. Google classrooms were created by each school counselor to share important information with students and parents/guardians. The school

counseling department ensures each year that every senior has a postsecondary plan following graduation.

In January, the college planning/post-secondary process for juniors continued in the format of individual meetings with their school counselor and extended through the end of the school year. Meetings focused on Naviance, the college search process, as well as tailoring the meeting to other post-secondary options of interest (military, trade schools, gap years). School counselors held their annual college planning evening as a Virtual College Panel Presentation for students and parents in February. Virtual Financial Aid Presentations were shared with families in the spring. The 10-12 counselors worked collaboratively with the 8-9 counselors on creating a Virtual Career Day. The program introduced students to exciting careers and the opportunities to connect with individuals in the various fields of work. Juniors had the option of taking the SAT at the high school in March. In June, counselors offered the College Boot Camp to juniors in person at the BMHS Auditorium, as well as provided the program virtually for full remote students. A Career Education Boot Camp was also offered, focusing on presenting information about the military, trade schools, gap year, and using tools such as the Massachusetts CIS website and Naviance. Additionally, counselors assisted in the planning and proctoring of Advanced Placement Exams.

School counselors assisted with the course selection process by reaching out to students to ensure course selection was completed for the 2021-2022 school year and reviewing their selections to ensure they were in alignment with graduation requirements and personal interests/goals.

Additionally, school counselors supported students who were struggling academically and/or socially/emotionally, whether through 504 and IEP meetings, team meetings, individual check-ins, and parent communication. School counselors also helped families work through their difficult decisions regarding cohort changes.

Marshall Middle School, School Counseling, Grades 5-7

The middle school School Counseling Department provided support to students and families during the 2020-2021 year in both familiar and entirely new ways.

As students were in the hybrid model, school counselors needed to be able to provide support both in-person and remotely. This included social emotional, academic, and technological supports. Counselors worked as liaisons between teachers and families, and provided check-ins for students who were having difficulty attending school, whether remotely or in person. A Google classroom was created for students and families, and provided weekly lessons and resources focused on a monthly topic relevant to middle school mental health.

The school counselors started and facilitated the Student Support Center, which was designed to help students who were struggling remotely by having them come into the building on their remote days to complete work in a structured, supervised setting. In the spring, the counselors visited elementary schools to talk to 4th graders about their transition to the middle school, the differences they would encounter, and the wonderful opportunities they had to look forward to. Counselors also worked with 7th graders about their transition to BMHS and scheduling for the high school through classroom presentations and follow-up meetings.

Locke Middle School, School Counseling, Grades 5-7

After an unprecedented spring, in September, students in the hybrid learning model were welcomed back to the Locke. As a school community we worked to provide an environment

where students felt safe and supported to come back to in person learning. School counselors collaborated with SEL staff to provide tools to teachers to creatively engage students and develop strong connections between peers. School counselors focused on providing social emotional support for students. Counselors met with students in person and also connected with students on the days when they were remote at home. School counselors also surveyed students to assess student needs and ensure that they were connecting with each student. Google Classroom and other tech tools were used by the school counseling staff to provide support and social emotional learning experiences to students.

In addition to our work supporting students' social/emotional wellness, the school counselors collaborated with teachers, administration, and families to provide academic supports for students. Utilizing one-on-one, small group, and classroom lessons, school counselors assessed students' needs and then focused on areas of concern, such as managing the hybrid schedule, developing time-management skills, and navigating the multiple online platforms. Students' academic progress was continually tracked, and school counselors met regularly with teams to monitor student growth/concerns. While working directly with students, we also prioritized school-home communication. Using Google Meet or Google Voice, counselors collaborated with families to provide technology support and to provide timely information/feedback regarding student academic progress. Using classroom and standardized assessment data, school counselors identified students in need of additional academic support and worked closely with faculty/administration to create an academic intervention schedule. Counselors collaborated with students/families, interventionists, and faculty/administration to monitor student progress and coordinate all of the intervention programs.

In the spring, school counselors again focused on creating a welcoming school culture as students returned to full in-person schooling. We provided teachers with information/lessons to support students' social/emotional well-being during the transition, and also began collaborating with elementary schools/BMHS to prepare for our incoming 5th grade students and ensure our departing 7th grade students were prepared for their transition to BMHS.

For the incoming 5th grade students, school counselors visited elementary schools to share information about our school, answer questions, and meet the incoming students. In addition, counselors met with elementary staff/administrators to learn about student needs and gather student information data to support the placement process.

For 7th graders, school counselors met with all students to explain the transition process and share academic and extracurricular opportunities at BMHS. Students and families were supported in choosing schedules for their 8th grade year. School counselors met with the 8-9th grade BMHS counselors to share important data and student information to help our 7th graders have a smooth transition to BMHS in the fall.

Middle School Remote Learning, School Counseling, Grades 5-7

The remote middle school students started out the 2020-2021 school year with an orientation, centered on easing students' anxieties and familiarizing students with the typical school day, amid the uncertainties surrounding the coming academic year.

The remote counselor conducted several classroom lessons for students throughout the year. During the fall, the counselor went into the virtual classroom to present a lesson on anxiety with a guided lesson on relaxation techniques. A follow up lesson in the winter was provided to discuss coping skills and provide a flow chart 'plan' for dealing with stress. After the New Year, students were given a 'survey' to gauge connections to teachers and peers; emotional levels and

attitudes towards achievement. The survey results were used to meet with students who indicated concerns. Students also received a classroom lesson on academic skill building, time management, organization and the differences between learning online and utilizing our five senses in learning. The school year ended with a transition to the next grade level presentation. The remote counselor also conducted one on one meetings with 5th, 6th and 7th graders to offer academic guidance, focusing on students' emotional and social learning and giving specific support to children who were struggling with various personal and school related issues. Parents and students received a weekly email of encouragement.

The remote counselor worked closely with each grade level teaching team, holding weekly meetings with the teachers to discuss student achievement, concerns and provide support to teachers both morale and productive-wise. One of the main concerns the counselor addressed was responding to requests from teachers to learn why certain students were not attending online class, and then working to resolve whatever the barrier was. Also, the counselor worked closely with the remote Principal Kevin Brooks and the outreach social worker to identify and provide mental health referrals/services for students in crisis in collaboration with parents. Another feature of the remote school counselor was conducting check in phone calls to parents/guardians with technological troubleshooting. The conversations included making certain that students had the necessary equipment and internet access; reassuring concerned parents, and coaching families on how to set up a structured school day. Finally the remote counselor set up online 504 Plan meetings for updates on transitioning students to a new school building and setting up google meetings with parents and teachers to discuss academic progress and concerns.

Fine Arts

Chris Dearbeck, Fine Arts Coordinator

The Billerica Public Schools Fine Arts Department continues to focus on building a strong, inclusive voice throughout the community. Our music programming throughout the district continues to be recognized as a NAMM Best Community for Music Education, a distinction we have been receiving since 2016.

The 2020-21 school year was a challenging one for everyone but especially for arts education, we saw all of our public performances put on pause, art exhibits cancelled, and students making music while sitting in two different locations. The arts in our schools have benefited from renewed interest and the numbers were trending in an overwhelmingly positive direction, then March 2020 happened. So, it was fitting that our mantra in 20-21 be all about survival of the program we previously built. The challenge was that many of our teachers and students were in two different places, some at home and some here in the building, time to get creative because, after all, that's our business!

A quick Google search for "Billerica Memorial High School band played on Minuteman" will bring up an article from November 16, 2020 about how our ensemble programs adapted to the challenges during the pandemic. Although we were unable to create/perform for a live audience our students began to shift their focus toward creating music for personal fulfillment and growth. This fulfillment and growth was of greater importance for our students who were opting for remote learning as they were not physically present in the classroom, instead they were tasked with recording their performances and tracking growth in a virtual environment. As we began to embrace our new normal our ensembles would produce virtual performances that were both amazing and personal.

The word “virtual” was all the more popular in our Visual Arts and Elementary Arts programs. In 20-21 our visual arts teachers shared student work via online exhibits, not only providing public access to what was being created in our classrooms but also creating a place for student work to live on. Meanwhile, our elementary music teachers created learning modules to teach remotely into classrooms that were both unique and interactive. In the spirit of preserving arts programming and progress students would still participate in creating art, starting instrumental lessons, and virtual concerts.

As we brought the 2020-21 school year to a close we would soon find a bit of “normalcy” as our ensembles would entertain audiences on our outdoor stage behind BMHS. The Marshall-Locke theater programs would combine their efforts to offer a virtual talent show, while BMHS would renew the infamous *Playing Favorites* series with a virtual edition. Our BMHS Winter Colorguard program would once again be Winter Guard International Finalists; our BMHS Visual Arts Department transformed the media center into an Art Exhibit that showcased art during a very interesting time. All-in-all to say we survived might actually be an understatement, there were stressful times no doubt, but we are still alive and well and looking forward to delivering as only a Best Community for Arts Education knows how.

Health Services and Wellness

Bernie McCann, Health and Wellness Coordinator

Health and Wellness Advisory Committee

Committee work was suspended during the 2020-2021 school year due to the pandemic. Committee members were part of other committees in their buildings and at the district level that supported a safe reopening, maintained a safe learning environment, and that students received support at home and in a virtual learning environment.

Social Emotional Services

Professional development for staff continued to be an area of focus, providing an understanding of the impact social emotional learning has on academics. The SELS worked to weave social emotional learning in with PBIS and RTI services and implemented coaching cycles in each building. SELS provided more direct services direct outreach to students and families throughout the year. They worked closely with school administration to identify the best ways to meet the needs of the students and families in person and virtually. For virtual learners, they were often the conduit for students and families to maintain a connection with the school community. In addition to the direct services they provided, the SELS helped connect families with community services as needed.

The five elementary schools conduct a weekly social emotional team meeting which includes an administrator, social worker, nurse, school psychologist, BCBA and the SELS in order to identify and coordinate service for the students in their care. Collaboration continued to be an essential part of successfully meeting the needs of all students.

Health and Physical Education

The Health and Physical Education Program continued to provide creative and innovative lessons for students both in person and virtually. Teachers worked within the protocols established by the Department of Secondary and Elementary Education by adapting lessons, creating new lessons, and modifying how students participated in activities. Ways to enhance

ones physical and emotional wellbeing were constantly explored and the level of collaboration was exceptional.

The program of studies at the high school was modified slightly due to the protocols established by the Department of Secondary and Elementary Education. The result was fewer elective offerings, and the goal will be to reinstate for next school year. At all levels, lessons were developed and delivered for those students choosing the option of fulltime virtual learning.

Nursing Department

The department welcomed 2 new full-time nurses, one new part time nurse this year, and welcomed several new per diem nurses to support and complement our existing nursing staff throughout the district.

During the 2020-2021 school year the Billerica Public School Nurses provided care during 23,490 student encounters and 490 staff encounters. The return to class rate remained high at 93.49%.

The following initiatives and activities took place in the nursing department:

- Organized flu clinics open to all staff members in each building. Walgreens is being utilized as the vendor and they provided more than 315 flu shots to staff during the flu season. These clinics were offered outside for the 2019-2020 school year.
- Nursing Staff worked together to update existing policies and create universal forms to be used throughout the district.
- Arranged for consultations with Boston Children's Hospitals MASSTART program. MASSTART works to help families of medically needy students utilize technology to enhance their access to education.
- Renewed its relationship with Medical Consultant: Dr. David Geller, of Bedford Pediatrics.
- The Essential School Health Grant provided for new equipment in some offices and supported the purchase of PPE materials as needed.
- The Lead Nurse Support Specialist coordinated professional development for nurses and arranged participation in state-level trainings and conferences on a variety of topics.
- We achieved the distinction of having a Nationally Certified School Nurse in every school. NBCSN certification reflects competence and professionalism by demonstrating a national standard of preparation, knowledge, and clinical experience.
- Provided staff training for universal health care precautions, Emergency allergy response, and seizure first aid.
- Created care plans, attended meetings and collaborated with staff for over 400 students with 504 plans.
- Ensured the safe evaluation, stabilization, and acquisition of emergency care during 911 and Emergency Crisis Unit calls.

Our nurses acted as community leaders, volunteering their time with local groups and agencies such as:

- Billerica Health and Wellness Advisory Committee
- Massachusetts Asthma Action Partnership
- Epilepsy Foundation of New England
- American Red Cross
- Greater Lowell Community Health Alliance

- Medical Reserve Corps
- Department of Public Health School Nursing Regional Consultants
- National Board for the Certification of School Nurses
- Boston Athletic Association
- Massachusetts School Nurses Organization

Nursing staff was at the forefront of contract tracing working with the Billerica Board of Health's Office to support their work addressing the pandemic. Support was provided to students, family and staff throughout the course of the year through education, constant communication, and outreach. Collaboration was outstanding and the group excelled at working together as a cohesive unit.

Elementary and Middle School Humanities

Marybeth Keane, K-7 Humanities Coordinator

Overview

The 2020-2021 school year was one that saw changes in the nature of academic programming and instructional delivery due to the ongoing pandemic. In K-7 Humanities, instruction focused on prerequisite standards, those identified by the Department of Elementary and Secondary Education as critical for future academic success. Elementary and middle school ELA and History/Social Science teachers adapted instruction to prioritize them making the most of limited time with students.

Elementary and Middle School English Language Arts

Coaching Staff: Due to the impact of COVID on staffing, all elementary and middle school coaching staff was redeployed to classroom teaching or district curriculum positions. Curriculum work and professional development continued with the support of consultants from Teaching and Learning Alliance.

Word Study: Teaching foundational reading skills—particularly phonemic awareness and phonics in primary classrooms—was paramount. Kindergarten teachers worked diligently to complete the roll out of the Teaching and Learning Alliance word study program which was interrupted the previous year. An online coaching session was provided to each kindergarten teacher by a TLA consultant. At the end of the year, teachers self-reported that they made it through all the units of study. In first-, second-, and third-grade classrooms TLA word study programming was maintained. During summer school, the highest leverage phonics skills were revisited with students who participated.

Reading: While some reading units of study and trajectories were revised and/or omitted, elementary and middle school students received standards-based instruction appropriate to their grade level on literary and informational text. Additionally, the district purchased a well-received resource, RAZPlus, for elementary and grade 5 students which provided teachers, students, and families with extensive access to online gradient texts and other resources. Here again, professional development was provided to users. Additionally, the district coaches created instructional video resources to support primary reading instruction.

Writing: In grades 3 and 4, teachers continued the roll out of the standards-based Calkins' Writing Units of Study that began towards the end of the 2019-2020 school year. To support their work, the district purchased virtual resources from the publisher that provided online access

to video recordings of all writing focus lessons. The videos have been invaluable. In fact so much so, teachers have requested access for the 2020-2021 school year as well. Additionally, an after-school, online course was provided to interested teachers to further enhance their understanding of the Calkins Units of Study. Moving forward, at the end of the 2019-2020 school year, a grade 1 and 2 teacher at each elementary school elected to become early adopters of the Calkins Writing Units of Study during the 2021-2022 school year. In June 2021, they participated in professional development to prepare them for a successful launch of the units of study in fall 2021. It should be noted that the Calkins Units of Study have been in use for several years in grade 6.

Elementary History/Social Sciences

In all grade levels, curriculum pacing maps, learning trajectories, and lessons were created or adapted to reflect the 2020-2021 learning model. At the middle school level, History Alive was purchased to support standards-based instruction.

High School Humanities

Marian Dyer, 8-12 Humanities Coordinator

At the start of the school year, teachers took advantage of additional professional development days to learn and practice instructional technologies. Teachers learned Pear Deck, Screencasting, Kami, and Edpuzzle. Teachers explored and implemented many new features from the Google Suite for Education, including Classroom and Quizzing. All this training proved valuable as BMHS students and teachers worked in the hybrid learning model for most of the year. Even with the return to full in-person learning, these technologies remain important and relevant instructional strategies.

Beginning in the spring of 2021, several BMHS teachers from various departments participated in training to help promote culturally equitable and responsive curriculum. Through this training and subsequent working meetings, teachers recommended the addition of English curricular texts that will better represent human diversity. This work continues, as we look to ensure culturally responsive teaching and learning for all students, across all disciplines.

To support student learning amid the reduction in instructional time, more than 80 students participated in the BMHS credit recovery program during the spring semester. Students in danger of not earning credit for core courses worked with classroom teachers as tutors. These teacher-tutors helped students beyond class time to make up important assignments and learn critical knowledge and skills, ultimately supporting many students to pass core academic courses. Virtual Field trips replaced actual field trips this school year. Students participated in a virtual model United Nations conference. Students visited museums virtually. Two students, elected by their peers, participated in the annual Massachusetts Student Government Day in May of 2021. While exchange programs have taken a hiatus during this global pandemic, we look forward to relaunching these opportunities as soon as we are able.

Continuing our participation in the Massachusetts Student Advisory Councils, Sean Furbush and Jasper Coughlin represented BMHS regionally. Both were elected to the State Student Advisory Council for 2020-2021, and Jasper was subsequently elected by his peers there as the Chair of that body. This position also required Jasper to serve as the student member of the State Board of Elementary and Secondary Education. Looking ahead to the 2021-2022 school year, BMHS elected Sean Furbush and Aidan Le as representatives, and Sienna Coffey serves as an alternate,

all three attending virtual meetings once a month. Sean was also elected to join the State Student Advisory Council this year. BMHS applauds student participation in these organizations.

Elementary and Middle School Science, Technology, Engineering and Math (STEM)

James Sforza, K-7 STEM Coordinator

For the 2020-2021 academic year, professional development modules in mathematics focused on using the accelerated method to teach grade-level concepts and on how to best use videos to support distance learning. Pacing guidelines were slightly adjusted to meet the demands of this school year. In March, all math teachers in grades K-7, trained with math expert, Greg Tang, on the best practices and techniques for teaching critical concepts that are essential for progressing to the next grade-level. The training sessions followed a disciplined approach of advancing concepts from concrete and pictorial models to the abstract numbers.

In the springtime, interventionists trained and began using a new resource, Zearn, to deliver cohesive instruction for students receiving Title 1 and RTI support. Zearn uses a double dose approach of combining teacher-led instruction followed by video lessons that reteach the same content. Fluency practice, conceptual development, and independent application are included in each lesson. This resource and approach was also used for the ten day, in-person summer learning experience that was offered to Billerica elementary and middle school students.

Additionally in the springtime, all middle school math teachers and special education teachers participated in their initial training sessions to prepare them for launching Eureka math in all middle school classrooms for the 2021-2022 school year. Follow-up work was completed by each grade-level during summer 2021. Eureka is a top rated program that was created by teachers for teachers using the most proven techniques from a variety of different curricula. Additional implementation training sessions are scheduled for fall 2021.

Targeted computer science courses were provided for all students attending in-person learning in fifth and sixth grade. Additionally, unplugged computer science problem solving lessons were embedded into the Industrial Technology courses in grades 6 and 7. CS Fundamentals and CS Discoveries were used to guide students through sequenced problem solving, coding, and programming experiences.

A kindergarten classroom launched into the new school year by participating in the STEM Week Challenge. Students were engaged in a Project-Based Learning experience that required them to engineer solutions to real life problems. In this experience, students were tasked with designing games that taught math and enhanced memory. Their creations showcased their creativity, problem solving skills, and ability to think flexibly.

High School Science, Technology, Engineering and Mathematics (STEM)

Bill Manchester, 8-12 STEM Coordinator

BMHS STEM department was awarded a generous grant from the Cabot Foundation (\$15,000) to expand the STEM research program, and Science Fair. In February 2021, BMHS held its second annual Science and Engineering Fair. Four projects were sent to the Northeastern Regional Science and Engineering Fair. One project earned top proposal and two others earned special awards. Three projects continued on to the Massachusetts Science and Engineering Fair. At the state level, one project earned top proposal and one earned second place proposal.

Over the summer, teachers and students from BMHS worked with Massachusetts Science and Engineering Fair (MSEF) and other volunteers and interns from around the state developing resources for students and teachers to make the science fair accessible to all.

The Cabot grant included funds to purchase a Raspberry Shake Seismograph. BMHS is in the process of obtaining and installing the seismograph. The Raspberry Shake Seismograph can be connected via the internet to every computer at the school so many different classes can be using the data simultaneously. Use of the seismograph is not limited to Earth Science or seismology. It can also be incorporated into Math, Pre-Engineering, and Technology classes, providing students with the use of real data.

In addition, six BMHS science teachers were awarded Office of Naval Research STEM Resources Grants. Through the grants, these teachers participated in professional development and were awarded access to software and equipment. The software, training, and collaboration were particularly beneficial during hybrid instruction.

There is a new club at BMHS called BMHS Future Medical Professionals, in their first year, it has 61 active members. The club is geared to students interested in pursuing medicine or other health related careers. Their first invited speaker was Ms. David, our head nurse. Their next speaker is a recent BMHS graduate pursuing a career as an EMT.

The Chemistry Club participated in the United States Chemistry Olympiad Competition with three of our students reaching the top 10 ranking in the Northeastern Section of the American Chemical Society. Nearly 120 high school students, coming from more than 30 public, private, parochial, and vocational high schools in Eastern Massachusetts and New Hampshire, sat for this year's exam during the last week of March. Great accomplishment from our students.

Technology/Engineering

PLTW Principles of Engineering participated in MA STEM Hubs "Student Industry Connects" Challenge. All students designed, constructed and tested bridges with each student team choosing a specific truss type. Students received feedback from industry professionals from MA DoT, Autodesk and other firms receiving feedback such as

"I am currently working at a bridge engineering design firm as an assistant structural engineer where I help aid in the design of bridges and inspections. I had the pleasure of reviewing your project and I was very impressed! I really enjoyed the images of the construction of your truss bridge and thought it was very interesting. Your team did a good job in the design of the bridge, which is evidenced by the fact that it was able to hold 58 pounds."

Despite the tougher school year, we had high participation (5+ teams submitting) which earned BMHS students in addition a virtual classroom visit from Utile Architecture and Design Group (Boston MA) to learn more about design and construction aspects.

“End of Course” National Assessment: Principles of Engineering

Principles of Engineering		
Performance Level Ranges		
Novice	100	170
Practiced	180	310
Accomplished	320	460
Distinguished	470	600
Skill Clusters		
- Control Systems - Design and Mindset - Energy and Power - Materials and Structures - Professional Practice and Communication - Statistics and Kinematics		

The PLTW End-of-Course Assessment scale ranges from 100 to 600, with a higher score indicating a higher level of achievement. The scale score allows for valid comparisons within and across years for each PLTW course. Scale scores also provide a foundation for defining performance levels.

PLTW has established four performance levels to indicate a student's performance on an End-of-Course Assessment –

Novice, Practiced, Accomplished, and Distinguished

Novice	Practiced	Accomplished	Distinguished
Students may show some evidence of understanding routine procedures and concrete concepts in the PLTW Pathways. Novice students may be able to ask questions about simple problems.	Students use routine procedures and concrete concepts in the PLTW Pathways. Practiced students use creative, critical, and logical reasoning to solve simple problems.	Students apply integrated procedural knowledge and conceptual understanding to routine real-world problems in the PLTW Pathways. Accomplished students use creative, critical, and logical reasoning to solve real-world problems.	Students routinely apply integrated procedural knowledge and conceptual understanding to resolve complex and novel real-world problems. Distinguished students consistently use creative, critical, and logical reasoning to synthesize their understandings in complex, real-world scenarios.

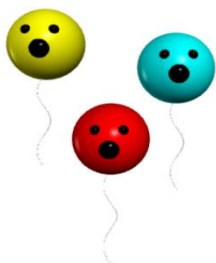
Last year's EoC was optional; fourteen students out of twenty-one elected to test. Of these, 13/14 scored “Accomplished” or higher, 1 scored “Practiced” and one student had a perfect score!

Math / Computer Science

Like many other departments, the BMHS Math department, spent most of the year teaching students in the classroom simultaneously with students working at home in the Hybrid model. Although this led to less practice time overall, the students were still able to showcase their abilities on the MCAS and show success in their math classrooms.

In 2020-2021 Billerica participated in the math league competitions via zoom since some of our members were fully remote students.

In computer science, students are finishing up the first semester learning about functions, animations and mouse and keyboard interaction. Here are some creations from earlier in the year.



Business

In Spring of 2021, the members of DECA were able to compete in person again. At the state competition there were 51 Finalists. 27 of whom qualified for the International Competition. At the ICDC (International Career Development Conference), BMHS had 1 student come in 1st place and 3 others finish in the Top 10.

Pictures of some of the State DECA participants below.



Participants from the International Competition below.



BMHS Math Department spent the 20-21 school year converting their traditional lessons to digital format. With the introduction of Pearson Envisions on-line text the department focused on using Peardeck (and other platforms) to help students fully access the curriculum in both in-person and remote formats. The time spent on this project out of necessity will have positive impacts for students for years to come allowing them remote and asynchronous access to the curriculum.

Annual School Reports
Project Support Preschool
Ditson Elementary School
Dutile Elementary School
Hajjar Elementary School
Kennedy Elementary School
Parker Elementary School
Locke Middle School
Marshall Middle School
Billerica Memorial High School

Project Support Preschool

Kerry Wang, Program Coordinator

The 2020-21 school year began with many adjustments as dictated by the COVID-19 pandemic. Our classroom furniture was arranged to accommodate physical distancing, our student enrollment was reduced, our school schedule was adjusted, and the staff and students were all wearing masks. In spite of this unusual set of circumstances, we were able to provide a fun and engaging learning environment for both our in-person and remote learners.

Because of the necessary adjustments to our practice due to the pandemic, our staffing needs this year included the addition of Mrs. Deborah Carpenter as our remote preschool teacher. She was able to develop a schedule of Google Meets, created a variety of lessons, and differentiated her instruction to meet the needs of students with a wide range of needs and learning styles. The results were amazing and her accomplishments unparalleled. For our in-person students, we made the best possible use of both our indoor and outdoor space as the children participated in an increased number of outdoor activities as well as creative indoor activities in keeping with the DESE COVID-19 guidelines for schools.

In October, we were honored with a visit from Jeffrey Riley, the Commissioner of Elementary and Secondary Education. His visit included spending time in our classrooms, talking with teaching staff, and engaging with students

Though we were not able to engage in many of our traditional monthly events, a few of our traditions were able to be maintained including our Veteran's Day tradition of honoring Nurse Kathleen Perry for her service with the Navy Nurse Corps and her various assignments including Desert Storm. In February, the children made Valentine's Day cards in honor of the Valentine's for Vets event. In June, we held our traditional sports week activities using various outdoor locations around the preschool. This year we were fortunate to be able to provide an internship to Ms. Cassandra Harmon, an Early Childhood Education student at Middlesex Community College. It is an honor to foster and encourage individuals interested in the formal education of our youngest learners.

Also in the month of June, as organized by our school nurse, twelve of our preschool staff members participated in CPR training and certification. Mr. Joe Devlin, Paramedic Supervisor for the Billerica EMS, provided the training. We are grateful for his time and expertise.

We were very fortunate this year to welcome new faculty to the preschool, including Mrs. Deborah Carpenter, our remote preschool teacher, and Ms. Jessi Rigazio, paraprofessional. There were a number of staff retirements this year including Ms. Carol Delaney, 36 years with Project Support Preschool, Mrs. Barbara Jenkins, 32 years with Billerica Public Schools, Mrs. Christine Carsno,

24 years with Project Support Preschool, and Mrs. Lorraine Huard, 18 years with the Billerica school district. Best wishes to all!

Ditson Elementary School

Victoria Hatem, Principal

The 2020 - 2021 school year was certainly one for the books!

In the year of Covid-19, we returned to school with the Hybrid Learning Model in place meaning each class was divided in half minus all students who chose to learn remotely. To begin the work, we started in the late summer by developing a return to school committee comprised of staff and parents/guardians to determine safety protocols for the Ditson students and staff to follow in order to remain safe upon our return to school. We then started the school year off with ten Professional Development days to ensure staff had time to learn, plan and prepare for the upcoming school year. We followed state and district guidelines to space out the desks in classrooms to ensure we were maintaining a safe distance from one another. We placed distance markers in our hallways and on our sidewalks in addition to changing our traffic patterns and pick-up and drop-off areas to reduce overcrowding at any one spot. We determined that our Specials - Art, PE, Music, LITE and Health - would be taught in the classrooms to reduce movement within the building and to better practice appropriate distancing. Students had lunch in the classroom with hot lunches being delivered by our cafe personnel. We incorporated outdoor learning and activities to the greatest extent possible to allow for opportunities for mask breaks and fresh air.

With Cohort A meeting on Mondays and Tuesdays, Cohort B on Thursdays and Fridays, and with all students learning remotely on Wednesdays, we were set to begin the school year. Teachers ramped up quickly learning the ins and outs of not only Google Classroom, but also other technologically based programs that would aid in their student's unconventional and new methods of learning.

Chromebooks were deployed to 298 Ditson students to support remote learning. In-person meetings, both with families and internal with staff, were halted and moved to an online platform. Special education services were provided both in-person and virtually. Some of our staff were on leave and others deployed to different assignments, however, we were able to hire an Asynchronous Learning Specialist to aid students in their learning both in-person and virtually as well.

Then came April 5th. A day many of us had been hoping for much of the school year! Finally, this was the day, with safety measures and protocols still in place, we were able to bring students back to learn together five days a week. While some students chose to continue to learn remotely, Hybrid learning was abandoned and our students and staff felt some bit of normalcy creep back into their lives. In order to continue to ensure student learning, we continued with our asynchronous learning specialist by adding morning and afternoon intervention groups to their daily schedule.

While our PBIS program, Positive Behavior Interventions and Supports, remained in place to recognize and reinforce positive and expected behavior within our school, we also created and utilized a version of PBIS expected behaviors while online and rewarded students for appropriate and expected behavior.

Looking for ways to move ahead to build the Ditson Community during Covid, our DSA continued to meet monthly in addition to providing opportunities for fun drive-bys (the Holiday Light Festival), raffles and other virtual community-building events. Without them, our school would not be the strong, welcoming community for families that we are.

It continues to be an honor to serve as the Ditson Elementary School Principal and to interact with amazing children, wonderful families and a dedicated staff who work diligently to provide each student with the solid foundation they need to be successful in their educational journey and beyond, especially during a significantly difficult time such as a pandemic.

Dutile Elementary School

Christine Balzotti, Principal

The 2020-2021 school year started in September with Cohort's A and B. Students attended school in-person 2 days a week and 3 days remote in order to allow for social distancing protocols to be implemented. Safety protocols were developed at the district and school level and in April, we transitioned to all in-person until the end of the school year. Students were happy to be back 5 days for in-person learning. We spent as much time as possible outside learning, eating and exercising.

School activities were changed throughout the year due to the guidelines. We celebrated the Grade 4 (2019-2020) students moving up to middle school with a drive by, Back to School Night and conferences were virtual, Penguin Patch (holiday shopping) was done on-line, PTO meetings were also virtual. Students submitted a video to participate in the Talent Show. In June we had closing ceremonies for Grade 4 students outside in the garden. Kindergarten orientation and tours for incoming grade 1 students were scheduled in small groups. Academically, teachers focused on the power standards for Math and ELA and MCAS was administered as paper and pencil with only one session for each in math and ELA.

Finally, through the PBIS initiative, we adapted our Safe, Responsible, Respectful expectations to meet our school safety protocols. We had virtual assemblies, school wide rewards, individual classroom incentives, and an exceptional student of the month. The Dutile children continue to be shown how positive behavior incentives can earn them praise and recognition and become role model citizens in the Dutile community. We are always Safe, Responsible and Respectful. We are the Awesome Dutile!

Hajjar Elementary School

Elizabeth Devine, Principal

The Hajjar Elementary School continues to offer many opportunities for academic and social growth in our students. We focus on the whole child to ensure our students can live up to our new motto: *We are Hajjar...Learning Today for a Better Tomorrow.*

In the fall of 2020, the Hajjar School welcomed several new staff members: *Denise Bynum, paraprofessional; Holly Cunningham, secretary; Amy DeYoung, team chairperson; Colette Ferola, kitchen manager; Wendy Georgan, Speech & Language Pathologist; Abby O'Keefe, paraprofessional; and Krista Shell as our nurse.*

The 2020-2021 school year brought unexpected challenges to the Hajjar and all schools. In August we convened a Hajjar Opening School Working group which consisted of staff and parents. This group was focused on how to open the Hajjar School during the global pandemic. This team developed safety plans, revamped our arrival and dismissal procedures and were liaisons with the larger community about reopening school safely. On Wednesday, September 16, 2020 we opened in a Hybrid Model with the student body being broken into cohorts and each cohort attending in person (synchronous) school two days a week and three days of asynchronous learning at home.. The students entered a school with one way hallways, they ate lunch in their classrooms, special subjects came to their classrooms, and each class attended their own recess. At the Hajjar we had twelve classroom bubbles, as two thirds of our students were learning in a hybrid model and one third of our student population decided to learn in a fully remote option. In order to make this work, staff were reassigned across the district in early September with many of our staff members teaching at the Middle Schools or remotely.

On April 5, 2021 any student that wanted to return to full time in person was allowed to, which meant once again the staff pivoted and made the necessary changes to ensure that our students were successful. This small decision resulted in many changes with classroom teachers needing to reconfigure their classrooms and adjust their teaching practices. We figured out how to serve all the students lunch in the cafeteria instead of the classrooms, and we continued with the new arrival and dismissal procedures. The Hajjar opened two district classrooms, one for first grade and one for second grade students. In the spring we were able to return with some of our normal spring activities including the spring book fair, which the HPA hosted outside, and we were able to have the 4th Grade Moving On Ceremony to close out the year.

As you can see, the 2020-2021 school year was one of the most challenging ever, and there are many unsung heroes. Our custodial staff kept our building open from March 2019 until we returned in September, they worked every day to ensure the building was clean and safe for all that entered. The cafeteria staff figured out how to serve our students breakfast and lunch daily in multiple locations throughout the building. Our technology department got chromebooks and internet access to all students that needed it, and helped the staff with both new hardware and software. The teachers and staff went above and beyond all year long. They adjusted their teaching practices to ensure the safety guidelines were adhered to and made sure the students enjoyed returning to school. It was great to see the students playing at recess and simply enjoy being kids.

Every year, I state how fortunate I am to be the principal of the Hajjar School and last year proved that statement even more. I have the privilege to work with a community that goes above and beyond to do what is best for our children in even in the most challenging times. Thank you to everyone that made the 2020-2021 school year a success!

Kennedy Elementary School

David Marble, Principal

Despite many challenges related to COVID19, the John F Kennedy Elementary School continued to offer students countless opportunities to enhance their education, strengthen social skills, build community relationships, and enjoy their childhoods in 2020-21

This year started as "Hybrid Year". Students came to school two days each week and worked remotely three days each week. This allowed us to keep kids in contact with their teachers, while also upholding appropriate safety protocols. In April, we transitioned to in-person learning so all of our students were able to return to school, with new safety protocols put in place.

Obviously, safety protocols caused us to adjust many things throughout the year. Activities, conferences, meetings, and celebrations were done virtually. The Kennedy Community truly worked together to provide students with as many opportunities as possible in a safe way.

The Kennedy community continues to be guided by work on PBIS (Positive Behavioral Interventions and Supports). PBIS focuses on building an environment where kids feel happy, safe, and supported in school. At the Kennedy, our PBIS system focuses on helping kids be courageous, accountable, respectful, resilient, empathetic, and safe. We use those words as guidelines for everything we do.

This year raised concerns that have never been raised before. Through all the changes, Kennedy staff and families worked together to give kids the best education possible. I continue to be extremely proud to work with the staff and families of the John F Kennedy School. It is indeed a wonderful place for a child.

Parker Elementary School

Chrissy Gibelli, Principal

Due to the COVID-19 pandemic, our academic year began with two different learning models: hybrid and remote. What this meant for our school is that some of our students learned completely from home and interacted with their peers and teachers virtually, while some of our students attended school in-person two days, synchronously one day, and asynchronously two days a week. On April 5, 2021, we welcomed many of our students back to full in person learning, while some of our students continued to learn virtually. We owe a very large thank you to our entire community for all of the support and guidance they provided during this unprecedented year.

During the 2020-2021 school year, our Parker family grew. Shaundre Rose, Kellie Kendig, Sam Oliver, Madison Rezendes, and Nicole Sullivan joined our staff. Mrs. Vanessa Craven resigned from her third grade teaching position to pursue one of her personal goals, and Mrs. Cheryl Robson retired. We thank them both for their many years of dedication to our Parker community and wish them well.

In the areas of curriculum and instruction, staff continued to solidify their practices by designing and implementing standards-based lessons. These lessons were taught twice a week during respective cohort days. During synchronous Wednesday, students and staff were able to work together as a whole class. Many of our classroom teachers utilized Google Classroom to support student learning at home. Our English Language Arts block included Readers and Writers Workshops. All grade levels continued to implement the Go Math program, with an emphasis on the online tools, including the personal math trainer (PMT), and online assessments. The STEMscopes Science program continued to be implemented through all grade levels with multiple hands-on experiences and experiments. As a supplement to STEMscopes, students engaged in online science learning through Generation Genius. Social Studies units were incorporated based on the state frameworks, with a foundation in literacy skills.

Our PBIS (Positive Behavior Intervention and Support) program continued to be implemented throughout the school. Students who demonstrated the four behavioral expectations of being respectful, responsible, kind, and safe earned Panda Paws from staff members. During synchronous learning days students were able to earn a Golden Paw. Students that were awarded a Golden Paw had their photograph taken and displayed in the main hallway.

It was another busy and successful year for our Parent-Teacher Organization. Their mission is to provide activities and financial support to enhance our school community. We did not host a major fundraising event this year. However, the PTO was able to fund our Holiday Shop at no cost and our fourth grade end of year programming for a minimal cost. Our PTO's motto is, "Many Hands Make Light Work". We appreciate the efforts of this small but mighty group, and encourage others to join in the fun!

Our partnership with the Read-to-a-Child program was paused for the entire academic year. We are looking forward to re-establishing this partnership in 2021.

Our school serves as a center of activity for our community, from early morning and after school childcare, recreational activities during the evening and on weekends, professional development for teachers across the district, and community meetings. This year we were able to offer before school care at a reduced rate. We were also able to partner with the Boys and Girls Club of Greater Billerica to offer after-school care through their Fun Club Program. It is an honor to serve as the Parker Elementary School principal.

Locke Middle School

Tony Garas, Principal

As you know 2020-2021 was not a typical school year, but it was another fantastic year at the Locke Middle School where our students and staff exemplified our motto of "Community Service and Educational Excellence."

In 20-21, we had to teach students in school and at home. We had hybrid students, remote students, cohorts 1, 2, 3, and 4, and of course Wacky Wednesdays when all students were at home. We all learned how to zoom, google meet, Screencastify, and teach virtually. We took on the challenge, created videos, invented new ways to teach, and helped our families get through a difficult time. All of our school-wide videos are posted on Instagram at Locke Middle School. You can see how the Locke and the town of Billerica came together under the most difficult circumstances.

In an attempt to keep all students motivated and engaged, we promote after-school activities throughout the year. Unfortunately, in 20-21, we did not get the opportunity to continue our usual programs. Many of our programs continued remotely, including student council and our award-winning robotics team. We look forward to next year when we can continue all of our programs that are so essential for students.

At the Locke, we can raise a lot of money for great causes and we have also raised our academic standards for all students. We continue to challenge our students academically and ask them to accept the growth mindset and work hard every day. In order to learn, students need to be provided with the best possible learning environment and the technology to become college and career-ready. We made many upgrades to the Locke this past year. All English, math, science, and social studies classrooms are equipped with interactive promethean boards, we have improved our wireless capability, and all students are issued Chromebooks to use in the classroom and at home. We also have put in a state of the art fitness center which is used by students and staff.

As you can probably tell, there is a lot happening at the Locke Middle School. What a school year it was! A pandemic – no problem. We strive for excellence in all of our endeavors and

enjoy working hard while having a little fun, too. I would like to thank our staff, students, and parents for all of their efforts last year in making the Locke a special place to be.

Marshall Middle School

Michael Rossi, Principal

The school year 2020-21 will be marked in history as the year the COVID-19 pandemic impacted education in both structure and process of educating students here at the Marshall Middle School and across the country. Our staff responded to this challenge by learning new instructional techniques and methods, utilizing online platforms, and provided students with a quality education through multiple learning platforms.

Parents were offered three options for student learning. Hybrid, Full Remote, or Full In-Person, which was only provided for students with severe disabilities as indicated through a special education plan. The majority of students participated in the Hybrid program, a combination of the in-person and remote learning platforms. At the Marshall we transitioned once again by having 15 staff members request to join the Full Remote program. These positions were filled by teachers within the district and new hires. We were very fortunate to have such a high quality group of individuals join our school community.

While we continued to challenge our students academically, we recognized the need for additional support for all learners. We benefited from our work over the past three years in developing partnerships with UMass Lowell, Merrimack College, and William James College. Whether it was through student teacher assignments, counseling interns, or Fellowships, our students benefited from the additional staff. The graduate students were able to provide classroom support, small group support and in some cases individual support. We were also able to provide for small group tutoring for students in each learning platform through Title One.

We were fortunate to have been able to meet the technological needs for the various learning platforms and have the hardware necessary for both staff and students to engage in learning. The school district's long term technology plan and the town's willingness to support it proved for a much smoother transition than students and staff faced in other communities. We are grateful.

Our school vision, "A Community of Independent Learners", drives our work. We recognize that meeting this vision requires us to identify and support students who are not meeting academic and social benchmarks established by the state, district, and school. During the 2020-21 school year the need to address each student's social emotional learning became a major focus. We began to incorporate social emotional learning into all aspects of our school. While we were not able to continue the after school program, we found multiple ways of incorporating motivating and engagement activities during the school day.

Enough cannot be said about how our staff rose to the occasion of transforming their classrooms during the 2020-21 school year. In a very short time our teachers created new learning environments for our students utilizing new technology and harnessing longstanding techniques to motivate and educate our students. Regardless of the course or subject area, teachers were engaging with students through both in-person and online classes, presenting, instructing, assessing, and most importantly connecting with our students. In years to come our student will remember how much our teachers, paraprofessionals, counselors, and other staff did to make a very daunting situation a little bit easier. While this time period may be defined as the period of the most difficult in an educator's career, it was rewarded with many expressions of gratitude by both students and parents. We all work at "Being the best version of ourselves!"

Billerica Memorial High School

Thomas Murphy, Principal

Billerica Memorial High School concluded its 2020-2021 school year with a Graduation that brought the entire graduating class together for the first time since 2019. The occasion also marked the first time Graduation was held in the newly constructed stadium on the campus of BMHS. The protocols enacted due to the ongoing pandemic afforded our families to sit with their graduating senior while limiting the overall capacity of the event. The Graduation also marked the return of our traditional “gauntlet” in which students invite their former teachers from preschool through high school. The night provided our students and their families the opportunity to celebrate this milestone together while being supported by the faculty and staff of the Billerica Public Schools. Over 178 colleges and universities accepted members of the Class of 2021 for matriculation in the fall of 2021.

The University of Alabama
American International College
American University
Anna Maria College
Arcadia University
Arizona State University-Tempe
The University of Arizona
The University of Arizona
(Architecture)
Assumption University
College of the Atlantic
Becker College
Bennington College
Bentley University
Berklee College of Music
Boston University
Boston University (College of
Arts and Sciences)
Boston University (College of
Engineering)
Brandeis University
University of Bridgeport
Bridgewater State University
Bryant University
**University of California-Los
Angeles**
Castleton University
Catherine Hinds Institute of
Esthetics
Champlain College
Clark University
Clarkson University
Coastal Carolina University
Colby-Sawyer College
The College of Saint Rose
University of Colorado Boulder
(College of Arts & Sciences)
Columbia College Chicago
**Columbia University in the
City of New York**
Connecticut College
University of Connecticut

University of Connecticut
(Stamford Campus)
Cornell University
Curry College
Dean College
Drexel University
Drexel University (College of
Computing & Informatics)
Drexel University (Westphal
College of Media Arts &
Design)
Duke University
Emerson College
Emmanuel College
Emory University
Endicott College
Fairfield University
Fisher College
Fitchburg State University
Florida Institute of Technology
Framingham State University
Franklin Pierce University
George Washington University
Georgia Institute of Technology-
Main Campus
Georgia State University
Gordon College
Hampshire College
University of Hartford
Harvard University (Harvard
College)
Hofstra University
Husson University
University of Illinois at Urbana-
Champaign (College of
Engineering)
Indian River State College
Iowa State University
James Madison University
Johns Hopkins University
Johnson & Wales University-
Providence
Keene State College

Lasell University
Le Moyne College
Lesley University
Louisiana State University
University of Louisville
University of Maine at
Farmington
University of Maine
Marist College
University of Maryland-College
Park
Massachusetts College of Art
and Design
Massachusetts College of
Liberal Arts
Massachusetts College of
Pharmacy and Health Sciences
University of Massachusetts-
Dartmouth
University of Massachusetts-
Amherst
University of Massachusetts-
Amherst (College of
Engineering)
University of Massachusetts-
Amherst (College of Humanities
& Fine Arts)
University of Massachusetts-
Amherst (College of
Information and Computer
Sciences)
University of Massachusetts-
Amherst (Isenberg School of
Management)
University of Massachusetts-
Amherst (Stockbridge School)
University of Massachusetts-
Boston
University of Massachusetts-
Lowell
Mercy College
Merrimack College

University of Michigan-Ann Arbor
 Middlesex Community College
 Missouri Valley College
 Mount Holyoke College
 Nazareth College
 University of New England
 University of New Hampshire-
 Main Campus
 University of New Hampshire-
 Main Campus (University of
 New Hampshire at Manchester)
 University of New Haven
 New York Institute of
 Technology
 New York University
 Nichols College
 North Shore Community
 College
 Northeastern University
 Northeastern University (Boue
 College of Health Sciences)
 Northeastern University
 (College of Engineering)
 Northeastern University
 (College of Science)
 Northern Vermont University-
 Johnson
 Northern Vermont University-
 Lyndon
 Norwich University
 Old Dominion University
 Pace University, New York City
 Campus
 Pennsylvania State University-
 Main Campus

**University of Pennsylvania -
 Wharton School of Business**
 Plymouth State University
 Providence College
 Purdue University-Main
 Campus
 Quinnipiac University
 Regis College
 Regis University
 Rensselaer Polytechnic Institute
 University of Rhode Island
 Rivier University
 Rochester Institute of
 Technology
 University of Rochester
 Roger Williams University
 Rutgers University-New
 Brunswick
 Sacred Heart University
 Saint Anselm College
 Saint Joseph's College of Maine
 University of Saint Joseph
 Saint Michael's College
 Salem State University
 Salve Regina University
 Savannah College of Art &
 Design - SCAD
 Seton Hall University
 Siena College
 Simmons University
 University of South Carolina-
 Columbia
 University of Southern Maine
 Southern New Hampshire
 University
 Springfield College

Stonehill College
 Stony Brook University
 Suffolk University
 SUNY at Albany
 SUNY Buffalo State
 Syracuse University
 The University of Tampa
 Temple University
 The University of Texas at
 Arlington
 University at Buffalo
 Upper Iowa University
 Vanderbilt University
 Vermont Technical College
 University of Vermont
 University of Vermont (College
 of Arts & Sciences)
 University of Vermont (College
 of Nursing & Health Sciences)
 University of Virginia-Main
 Campus
 Washington University in St
 Louis
 Wellesley College
 Wentworth Institute of
 Technology
 West Virginia University
 Western Connecticut State
 University
 Western New England
 University
 Westfield State University
 Wheaton College -
 Massachusetts
 Worcester Polytechnic Institute
 Worcester State University

John and Abigail Adams Scholarship

In order to be eligible for the scholarship, students must

- score at the *Advanced* performance level on one of the three high school state assessment tests in ELA, Mathematics, or STE (Biology, Chemistry, Introductory Physics, or Technology/Engineering); **AND**
- score at the *Proficient* level or higher on the remaining two high school state assessment tests; **AND**
- have combined scores from the three tests that place them in the top 25 percent of students in the graduating class in their district.

Scholarship eligibility is based on each student's **first attempt** at taking the spring grade 10 MCAS tests in ELA and Mathematics.

The DESE waived the Competency Determination for the Class of 2021, which meant seniors were not required to pass the MCAS. However, members of the graduating class were afforded the option of taking the MCAS for the purpose of earning the John and Abigail Adams Scholarship. In total 66 graduating seniors elected to take the MCAS and earn the scholarship.

BEATON, MARGARET ROSE
 BENITEZ, JOCELYN
 AMOGAWIN
 BERNIER, CHLOE RAE
 BONGIOVANNI, EMMA
 ROSE
 BOULEY, BRANDON ANDRE
 BOWEN, KAITLYN ARIEL
 BUCKLEY, NATASHA
 GRACE
 CABRERA, DANIEL IZAYAH
 CAHILL, LEAH ANNE MAY
 CARTER, ROSE MARIE
 CENTOLA, STELLA
 ELIZABETH
 CHASE, ALYSSA
 CATHERINE
 COLLINS, LUKE WILLIAM
 COSTA, MEREDYTH ANA
 COUGHLIN, JASPER SCOTT
 DINSMORE, MEGHAN
 ELIZABET
 DONATI, RACHEL
 DECHAYNE
 ELLIOTT, CASSIDY LOUISE
 FUNG, ANGELINA LILY
 HARMON, ERIC EMERY
 HAROUTUNIAN, ISABEL
 ROSE
 HARTKA, JOSEPH DAVID

HEDERMAN, DAVID
 WILLIAM
 HORAN, JOHN PATRICK
 HUGHES, GABRIELLE
 EMMA
 JARMALE, SHASHANK
 NARESH
 KHALIFA, AMAN ILYAS
 KHALIFA, AWAD ZAKIR
 KHALIFA, MAAHIR
 NAZIRALI
 KOMARINSKI, JULIE
 LUCILLE
 KOMBO, GRACE RUTH
 KWET, OWEN NATHAN
 LAURENZA, ISABELLE
 ROSE
 LAWSON, ROBERT GEORGE
 LEBEAU, EMMA GRACE
 LYONS, LILY CATHERINE
 MAGGIO, WESLEY
 MALNATI, MATTHEW
 ROBERT
 MATHEWS, CHELSEY
 ARLENE
 MEASMER, JACOB IAN
 MONTION, LAUREN MARY
 MOORE, SHANNON
 PAULINE

MURCH, JORDAN
 ELIZABETH
 MURPHY, EOIN SEAMUS
 MYNAMPATI, SAKETH
 BHARADW
 NORTON, ALEXANDRA
 BIRGITT
 PASTORELLO, MICHAEL
 CRIST
 PATEL, ANKEET ANAND
 PATEL, DHRUV S
 PATEL, JAI CHIRAG
 PATEL, KUNJ JAIMEIN
 PATEL, TEJ AMIT
 RUSSO, SAVANNAH ROSE
 RUSSO, SOPHIA ANGELA
 SENG, MONITA KY
 SHAIKH, SANA S
 SHEEHAN, CAMERON
 DANIEL
 SLANEY, HALEY GEORGIA
 SO, CHRISTIAN BARLIN
 TOMEI, NICHOLAS JOSEPH
 WORRALL, SEAN ANDREW
 LEE
 WYATT, KAITLYN ROSE
 YEE, KARINA PAIGE
 YOUNG, MATTHEW ERIC
 YUTKINS, KELSEY LEIGH
 ZEIGLER, ABIGAIL GRAC

Scholastic Aptitude Test

The SAT was reintroduced to members of the Class of 2021, but most colleges were electing to process applications without score requirements for incoming freshmen. Although the scores were higher than in a typical year, they are not included here due to the extreme variation in test takers

.

Advanced Placement Program

Twenty-six students earned AP Scholar with Distinction designation. Granted to students who receive an average score of at least 3.5 on all AP Exams taken, and scores of 3 or higher on five or more of these exams.

The following students earned this designation: Donati, Rachel, Fung, Angelina, Furbush, Sean, Iwuchukwu, Ogechukwu, Jarmale, Shashank, Kabuga, Kadyne, Khalifa, Awad, Kombo, Grace, Lyons, Lili, Motion, Lauren, Moore, Shannon, Mynampati, Saketh, Patel, Ankeet, Patel Dhruv, Patel, Kunj, Patel, Tej, Seng, Monita, Shome, Karan, So, Christian, Truong, Ethan, Walker, Jessica, Whitten, Samantha, Yee, Karina, Young, Matthew

Twelve students earned AP Scholar with Honors designation. Granted to students who receive an average score of at least 3.25 on all AP Exams taken, and scores of 3 or higher on four or more of these exams. The following students earned this designation: Bolz, Max, Carl, Christian, Elliott, Cassidy, Ivanov, Alexander, Kinscheck, Caleb, LeBeau, Emma, O’Rourke, Ruby, Pastorello, Michael, Russo, Sophia, Sheehan, Cameron, Slaney, Haley, Tailor, Moneil

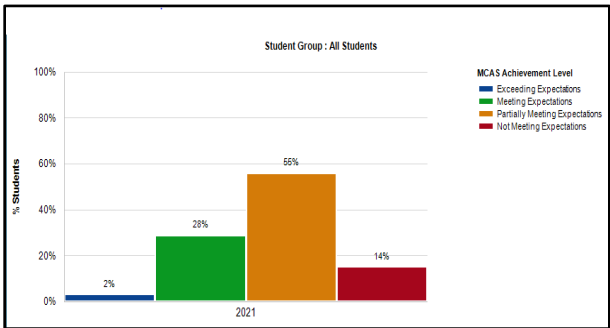
Nineteen students earned AP Scholar designation. Granted to students who receive scores of 3 or higher on three or more AP Exams.

The following students earned this designation: Beaton, Margaret, Bouley, Brandon, Bowen, Kaitlyn, Carter, Rose, Chase, Alyssa, Coughlin, Jasper, Hannon, Chloe, Khalifa, Aman, MacDonald, David, Magill, Daniel, Mahajan, Anchal, Malnati, Matthew, Mathur, Aditya, Moody, Seth, O’Connell, Sarah, Patel, Ankush, Patel, Jai, Surajiwale, Sura, Yutkins, Kelsey

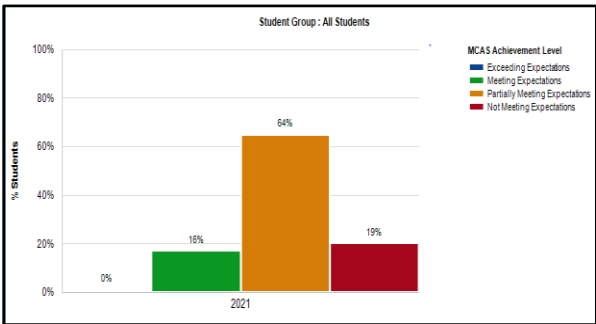
Massachusetts Comprehensive Assessment System (MCAS)

The MCAS was reintroduced after a one-year hiatus.

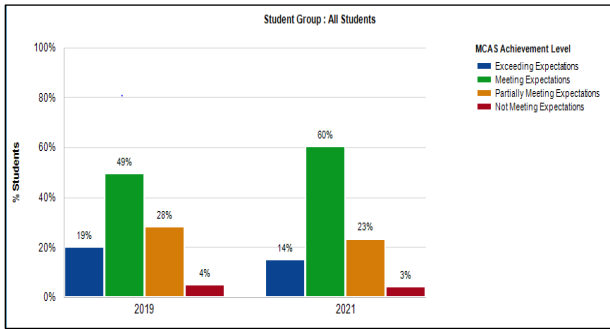
Grade 8 English Language Arts



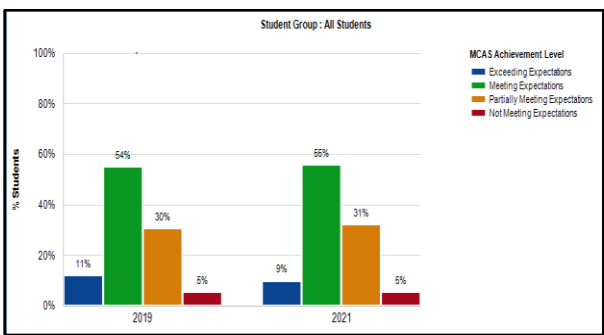
Grade 8 Mathematics



Grade 10 English Language Arts



Grade 10 Mathematics



Summary

The Class of 2021 experienced Billerica's first hybrid learning model. From September until April the school population in the building was approximately half of our enrollment, creating quiet classrooms, hallways, and the cafeteria. Our auditorium was quiet. There were no live productions and awards nights were without an audience. Our athletic teams were able to compete, but we were forced to move many fall teams to a new spring season that ran from February until early April. There were no playoffs or state champions crowned. However, we were able to create some new traditions. Our senior prom/night was held at the school with our first ever red carpet roll out. Our seniors' parents were able to watch our graduates walk together before preparing for a night of outdoor fun before closing out the night with our traditional hypnotist mesmerizing our seniors. Our Graduation was held on a beautiful Friday night, on our home turf, with family and friends in attendance.

Indians now...Indians forever!

Board of Health

February 18, 2022

To: The Honorable Board of Selectmen

The Board of Health presents this as its annual report for Fiscal Year 2021. The Board of Health is responsible for the protection of public health, welfare, safety and the environment in the Town of Billerica. This is accomplished through several public health programs that include ensuring a safe and healthy community through public health nursing programs, enforcement of environmental health codes, implementation of community health programs, and emergency preparedness activities.

Five dedicated community members form the Board of Health, appointed by the Town Manager for a three year term. The Board deliberates on and establishes public health policy and priorities for the Town, enacts regulations, and provides guidance on policy to the Health Department staff. The Board of Health consists of the following members:

Mike Grady, Chairman

Robert Reader, Vice Chairman

Sandra Giroux, Secretary

Marie O'Rourke, Member

Elizabeth Villar, Ph.D. Member (resigned September 2020)

In an effort to fulfill the goals of the Board of Health, the Health Department is staffed with professional environmental, public health, and support staff. The Health Department staff for Fiscal Year 2021 was comprised of the following individuals:

Kristel Bennett, Director of Public Health

Christine L. West, R.N., Public Health Nurse

Phavy Pheng, Health Agent

Joanne White, Principal Clerk, Recording Clerk

Shelagh Collins, Health Agent

During FY21 the Health Department continued in our efforts to address the COVID-19 pandemic. The Health Department staff worked tirelessly to address the disease burden of COVID-19 and to educate the public on guidelines and measures to slow the pandemic (mask usage, social distancing, testing, and vaccinations), and at the same time maintain all our programs to serve the need of the community.

During Fiscal Year 2021, the Health Department conducted the following services:

Building Permit Reviews	2056
Complaint Investigations	249/115 for Mask Complaints
Food Service Establishment Permits Issued	181
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Food Service Inspections Conducted	240 (COVID)
Temporary Food Service Permits Issued	13
Farmers Market Permits Issued	(No Farmers Market due to COVID)
Asbestos Removal Permits Issued	36
Disposal Works Installer Permits Issued	25
Funeral Director Permits Issued	4
Health Club Permits Issued	7
Horse & Barn Permits Issued	14
Hotel Permits Issued	3
Ice Rink Operator Permits Issued	2
Manufactured Housing Community Permits Issued	1

Needles & Syringes Permits Issued	2
Portable Toilet Permits Issued	0
Recreational Day Camp Permits Issued	2
Recombinant DNA Permits Issued	2
Septage Hauler Permits Issued	14
Septic System Permits Issued – New Construction	5
Septic System Permits Issued – Repair/Upgrade	33
Suntanning Salon Establishment Permits Issued	3
Swimming Pool Permits Issued	14
Transitory Gathering Permits Issued	7
Title 5 Inspector Permits Issued	7
Tobacco Permits Issued	37
Variances to Work in Floodplain or Near Floodplain	15
Administrative Determination to Work Near the Floodplain	19
Approval Waivers of Board of Health Regulations	6
Stormwater Management Approvals	7
New Food Establishment Plan Review Applications	5
New Swimming Pool Plan Review Application	1
Food Establishment Administrative Conferences	3
Well Permits Issued	18

During Fiscal Year 2021, the Public Health Nurse conducted the following services for residents:

SERVICE PROVIDED

NUMBER OF RESIDENTS

Blood Pressures	0 (employees only)
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Blood Sugar Test/Cholesterol Testing	0
Childhood Immunizations	0
Cholesterol Testing	0

Investigation and Control of Communicable Disease 245

(Confirmed, Contact, Probable, Revoked and Suspect Cases)

3,675 “lab” reported COVID-19 cases/followed up on about 3,000 cases

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Flu Vaccine (Clinics and Homebound)	450
Pneumonia Vaccine	0
Shingles Vaccine	2
Lead Screenings	0
Mantoux (TB) Tests	0
Tuberculosis follow-up/medication compliance	4
Vitamin B12 Injections	4
Annual medical records Camp Inspection	0
(Boys and Girls Club and Summer Camp Clinics)	
Wellness Program for Town Employees	
Referrals	

In addition to the services provided above, the Public Health Nurse coordinated with school nurses on vaccine requirements, control of Communicable Diseases, student physicals, and COVID-19 cases within the schools. The Public Health Nurse managed the Need Drop Off Program which is a service to Billerica residents. The Public Health Nurse continued to coordinate community COVID-19 updates with the Town Manager’s

Office for Social Media postings and Information Technology for the Public Health Nurse website. The Public Health Nurse has continued COVID-19 Case Investigations for the community (since the first case that was reported on March 13, 2020) and when COVID-19 vaccine was available, the Public Health Nurse coordinated several clinics that were available to residents.

Respectfully submitted,

Mike Grady

Current Chairman

BSAP

RE: 2022 Spring Town Meeting

Billerica Substance Abuse Prevention Committee Report

As with all work affected by COVID-19 in 2021, we focused our efforts primarily to intervention and treatment models during the COVID shutdowns. Youth prevention proved to be difficult during the pandemic due to not having access to students. However, we were able to host our usual in person annual education and ***Prevention Forum***, on October 20, 2021 at the Billerica Memorial High School, since the students were finally back to school full time.

Throughout 2020 and 2021, BSAP Committee has worked toward bringing in resources remotely for the community at each of their monthly meetings. These included Rise Again, The Sabrina Best Foundation, The Bridge Recovery Center- a peer recovery center out of Malden, Aware Recovery Care - in home treatment services and Front Line Regional Collaborative Initiative. A little background on each of the resources:

Rise Again: The Sabrina Best Foundation is a local non-profit that was started here in Billerica in 2020 as a result of Sabrina's overdose death. Sabrina was a Billerica native and her mom, Heather Cooper, has been working to provide resources and support to women in recovery and their children.

The Bridge Recovery Center is a peer recovery support center that provides access to fun, safe, and sober activities for individuals in recovery. These include self care activities such as yoga, music, meditation, "adulting" classes, games and movie nights. They also provide traditional 12 step meetings and parent support groups.

The Frontline Initiative currently helps provide residents of Chelmsford, Billerica, Dracut,

Tewksbury and Tyngsborough with access to mental health clinicians and peer support staff. When a local family is in crisis they can call the police department and request the Frontline Initiative response and the police department will coordinate sending a clinician to the home to respond instead of the traditional law enforcement officers. The Initiative, thus far, has saved millions of dollars in emergency room diversion and criminal custody diversion costs.

Aware Recovery Care is an in-home treatment model that provides a clinical team to assist individuals undergoing clinical stabilization at home instead of seeking inpatient care. Aware Recovery Care teams utilize a wide range of the latest evidence-based practices and innovative technologies with their clients to maximize and maintain long-term recovery, health, and wellness by providing a full continuum of home-based care including individual therapy, family therapy, and coordinated medical and behavioral healthcare.

Addressing Food Insecurity: BSAP recognizes that food insecurity can lead to substance use especially during the high stress of the holiday season. For this reason, we also continued our commitment to addressing this issue and sponsored the Billerica Community Pantry over the 2021 holiday season in an effort to prevent the stressors associated with food insecurity for individuals with substance use disorder. A \$500 grant donation was made for both the Thanksgiving and Christmas holidays to help Billerica families in need..

Opioid Crisis: In 2021 Billerica had a total of 37 overdoses - 10 of which were fatalities; of the 37 overdoses, 30 of those individuals received Narcan. Although the total number of incidents decreased by 4 in 2021 over the year prior, the fatalities increased over the total number reported in 2020. Average age of individuals impacted are said to be in their late 30's to mid-40's (24-62).

Billerica Opioid Overdose Outreach is used immediately following an overdose incident to connect survivors with treatment and recovery resources, as well as medical, and family resources. It often includes a member of the local police, fire, and/or health department(s) visiting a client at their place of residence. Oftentimes, mental health and/or substance abuse clinicians are involved in post-overdose follow-up. Billerica Opioid Overdose Outreach focuses on harm reduction, or reducing risk by meeting a survivor "where they are at." This might look like referring a survivor to a detox or outpatient treatment program or connecting a survivor's loved ones to family support services.

At Risk Referral for Alcohol: Additionally, services are provided for alcohol related incidents and as such, following the Billerica Opioid Overdose Outreach model, there is also an At Risk Referral follow up for alcohol related incidents. At risk referrals are completed by the substance abuse prevention coordinator. There were an increased number of alcohol related instances throughout 2021. However, no fatalities were reported throughout the year.

BSAP Sober Living Scholarship: In an effort to combat the ongoing substance use crisis and to provide wrap-around services during COVID-19, BSAP created a \$5000 sober living scholarship fund in 2020 and recommitted to supporting this initiative throughout 2021. By establishing this initiative, we successfully

sponsored 11 individuals to further long-term treatment. The application together with our resource handbook can be found on our website: <https://www.drugfreebillerica.org/>

Our next steps will be focused on working toward initiating middle school intervention with establishing an evidence-based after-school program for at risk students. By partnering with other community organizations working to improve the overall health and wellness of our community, we anticipate that this will be an added program for families to choose from when looking for extracurricular activities for their families.

In 2021, we met and exceeded many of our goals in providing comprehensive services to the community, including receiving a \$25,000 grant from the State to support our expanding goals in the years to come. These include creating a supportive social/emotional component for students by partnering with the peer led community programs, and executing deliverables by refocusing our efforts based on the feedback recommendations received using the Communities that Care Youth Survey findings, e.g., Underage Drinking PSA Campaigns, School Connectedness and Parent Engagement.

Further, we are planning to host a second education forum in May for the Locke Middle School. This will focus around healthy decision making, marijuana use and healthy texting and social media habits for adolescents and their parents.

Our primary focus, as Spring Town Meeting begins, is to gather your support for eliminating stigmatizing language from the title of the Committee in order to foster a more welcoming commitment to the families of Billerica currently impacted by Substance Use Disorder.

Finally, as we continue to meet the challenges and other substance use disorder related trends, we will continue to work toward improving community engagement and engaging evidence-based solutions for the residents at risk of and/or impacted by substance use disorder and mental health issues.

Respectfully,

Dina Favreau, Chair
BSAP Committee

Building Department

BUILDING DEPARTMENT

I hereby submit my report as Inspector of Buildings for the **Fiscal year 2020-2021**. The Building Department is charged with the enforcement of the Massachusetts State Building Code, Architectural Access Board Requirements, Town of Billerica Zoning By Law, and all other pertinent laws, including the State Electrical, Plumbing and Gas Codes. The total fees collected by this department were \$1,361,885.00

PERMIT ISSUANCE INFORMATION

SINGLE FAMILY DWELLINGS	70
TOWN HOUSE / APARTMENT	6
FOUNDATION	78
EARTH MIGRATION	0
ADDITIONS	84
ALTERATIONS	534
ROOFING, SIDING, WINDOWS	570
SOLAR PANELS	124
STRUCTURES (POOLS, SHEDS, ETC.)	197
COMMERCIAL AND INDUSTRIAL	7
ADD. & ALT. TO COMM. / INDUS.	122
RE-OCCUPANCY PERMITS	18
DEMOLITIONS	35
WOOD STOVES	10
TRAILERS / TEMP. TENTS	16
TRENCH	62
SHEETMETAL	125

TOTAL PERMITS 1808

ESTIMATED CONSTRUCTION COST FOR BUILDING PERMITS: \$ 154,801,650.00

TOTAL BUILDING PERMITS FEES COLLECTED: \$1,118,058.00

TOTAL PLUMBING AND GAS FEES COLLECTED AND TURNED IN: \$128,945.00

TOTAL PLUMBING AND GAS PERMITS ISSUED: 1737

TOTAL ELECTRICAL PERMIT FEES COLLECTED AND TURNED IN: \$114,882.00

TOTAL ELECTRICAL PERMITS ISSUED: 624

TOTAL FEES COLLECTED AND TURNED IN FOR DEPARTMENT:

\$1,361,885.00

OCCUPANCY / RE-OCCUPANY PERMITS	134
SIGN PERMITS	71
GRANDFATHER LOTS	8
CERTIFICATES OF INSPECTION	52

ZONING REPORT

LICENSES (RESTAURANT / ALCOHOL)	29
ZONING SPECIAL PERMIT/VARIANCE REVIEWS	74
ZONING COMPLAINTS	45
NON-CRIMINAL CITATIONS	36
GENERAL CORRESPONDENCE	565

Respectfully submitted,

Mark LaLumiere
Building Commissioner

COA

Overview

The Billerica Council on Aging continues to invest in efforts to:

- Erase ageism and/or built-in biases about aging.
- Focus our strengths to meet the needs of Billerica's older and younger seniors while leveraging intergenerational potential.
- Reinforce our stance as a community health and wellness center for seniors by addressing a range of needs from checking blood pressures to loneliness, isolation and increased mental health counselling, leveraging clinical skills of community partners and consultant.
- Offer some programming to younger seniors seeking a different experience that is punctuated by active living and lifelong learning.

Optimizing Our Impact Despite Covid

Our Center reopened on July 6th, 2020, after having been closed to the public for several months due to the Covid emergency. With guidance from the Town Manager and Board of Health, we reopened our doors to patrons with a limited set of activities, primarily exercise programming. Classes were reduced in size to adhere to social distancing requirements, masks were required, symptom checks were performed at the entrance and monitors oversaw all activities to be sure everyone complied with the protocols that had been established.

Highlights

We continued to upgrade, refine and advance our core programs using feedback to maximize benefits to our patrons

- Food Insecurity: We managed the third year of the weekly Lahey Fresh Produce market combining it with non-perishable food boxes from Greater Boston Food Bank for 80 patrons each week, as a drive-through, July 16th to October 29th.
 - Drive-through Lunch Events: The Martin Luther King drive-through attracted 35 patrons while we hosted 40 patrons for the 2021 Chinese New Year drive through. We continued with Grab and Go meals for St. Patrick's Day and two more drive-through events sponsored by the Sunshine Gals and Wood Haven Retirement Community, Tewksbury.

- We distributed food boxes with both perishable and non-perishable items, many of which were donated to us by the Billerica Public School's food program, to over 700 seniors during the year.
- We maintained our Senior/Veteran Tax Work-Off Program from Aug 1, 2020, to Feb 28, 2021. Despite Covid challenges for placement we had 66 Seniors and 9 Veterans enrolled in the program compared to the FY19-20 period when we had 95 Seniors and 13 Veterans.
- We introduced a new 2021 Health and Wellness Expert Series with Lahey Hospital and Medical Center produced on BATV. Program began with Diabetes (Heather Elias, MD) and Heart Health, (Lee Joseph, Cardiologist) and Christine Kovacs, Rheumatologist covered an Update on Arthritis. In addition, Matthew Page Sheldon, Licensed Mental Health Clinician and Executive Director of The Front-Line Initiative covered "Mental Health during the Pandemic".
- Programs Under the Tent: We rented a 20x40 foot traditional frame tent for 2 months, funded by Elder Services of Merrimack Valley (now AgeSpan), which allowed for added summer programming including an August 2020 session where the Town Manager read "Your Inside Shape" to kids and family members. We were able to continue card making classes, knitting and social time group sessions using the tent. The tent was also used for a variety of musical performances including a Mothers' Day sing- along concert with Singer/Guitarist, Howie Newman (supported by Mass Cultural Council), Wendee Glick and Steve Heck who entertained with selections from the Great American Songbook and David Bates for a Fathers' Day Celebration. We also held educational programs including Keep Safe / Keep Moving with our Fire Department and a World Elder Abuse Day program with community partners with handouts and giveaways.
- Our AARP Tax Aide Program completed 84 additional 2019 tax returns in July 2020 (in addition to the 210 completed prior to March 2020 Covid shutdown) then completed 320 2020 tax returns in February through April of 2021.
- NEW Programming on our Local TV station, BATV: We added several exercise programs including 60+ Strength Training, Joe Fish Exercise, Yoga with Nicole, Pat Fino Chair Aerobics and Cardio Boost. We also offered more entertainment and history programs, including Sheryl Faye as Anne Frank, Mabel and Jerry, Robert Neary performed Neil Diamond and history of the US Postal Service by Henry Lukas.
- We continued to address social isolation effectively through a range of interventions.
- After a brief pause, by September 2020 Our Respite Companion Program was back in operation. Our Companions are Billerica residents many of whom have cared for older family members for years. They form a deep bond with our clients built on trust so that seniors can truly share their concerns especially during the isolating period of Covid. Companions offer comfort and assist with various in-home tasks. They are CORI screened and CPR certified.

Continuing To Innovate

We seized opportunities to try new things that would help us be more successful in the long run. Weekly staff sessions helped us devise best possible approaches to deal with rapid change. A committed staff team allowed us to be the **only** COA out of 350 COAs in the Commonwealth to be fully opened as of July 2020. We took several steps to increase safety in the building.

- Three months of extensive work by our Admin lead led to launch online program registration and payment within My Senior Center. This was done to increase safety in our lobby by reducing crowding and to move toward cashless registration and payment.
- All Exercise programs (6 programs per week) resumed as of July 1, 2020, and classes were free of charge for 9 months, costing us \$2,000/monthly. This was done to reduce person to person transactions at the front

desk during the height of Covid 19 and to encourage patrons to return for fitness programs in a safety conscious environment.

- Limited participation in social programs which restarted in July of 2020. Patrons were required to register to attend and there were strict limits on participation.
- Working with our local Board of Health, we implemented numerous health and safety protocols and required strict adherence to those protocols in the building. Any activity that could not be conducted within those protocols, such as games, was not allowed to resume.
- Zoom programming was a hit with a range of uses. These included performers like Roger Trembley on his accordion, musician John Root who sang and played the flute, clarinet, saxophone and keyboards and other such programs. We had several health-based offerings such as Brain Healthy Eating and Gut Health programs by registered dietician Leigh Hartwell. We also transitioned our monthly Dementia Memory Café to Zoom.
- Since many in our Social / Craft groups like Knitting were uncomfortable being in the facility, we held weekly Zoom sessions with them throughout the year. Once spring and our tent arrived, many of them then returned to these activities as they were held outside of the building.
- October 2020: Worked with our Board of Health to deliver 160 flu shots on site. SalemFive provided pens for safe form completion while Benchmark Billerica and Stoneham Bank fielded informational booths in our rear parking lot.
- Additional programs returned safely in May and June of 2021; including use of our Fitness Room, Horseshoes, increased Transportation availability and more entertainment programs such as Name that Tune.

Leveraging Community Support to Increase Our Resilience

Building and strengthening relationships ahead of time with community organizations was a significant lever during these 12 months. With the support of Friends of the Billerica COA, Stoneham Bank, Fallon Health, Billerica Lions Club, Cabot Corporation and The Sunshine Gals and others, we weathered a rough year plagued by uncertainty.

Looking Out and Forward

We survived during this period through equal parts of creativity and placing the life quality of local seniors first. As a staff team along with volunteers who ventured to rejoin us while the pandemic raged, we developed deeper trust among us and a focus on WE CAN. As we look to July 2021 and beyond, we aim to:

- Sustain Core Operations.
- Bring back more programming and patrons slowly and safely.
- Re-establish the building's inner welcoming atmosphere – now sterile.
- Summon as much creativity and boldness as possible thinking about the future.
- Continuing to work with the Billerica Public Library and other local organizations to maximize intergenerational programming.
- Working with town leadership, vision, and plan for a new senior center that:
 - Maximizes the life quality of the 'young old' and the 'old old' in town.

- Accommodates population growth and evolving needs in the senior population.
- Depends less on volunteer capacity but on a right sized cadre of aging service professionals fully trained to address the needs of the older and younger consumer.
- Maximizes synergies of co-locating with the Recreation Department.

DPW

DEPARTMENT OF PUBLIC WORKS

DPW ADMINISTRATION

The Department of Public Works consists of seven divisions, Administration, Engineering, Highway, Water, Wastewater, Cemetery and Parks, & Trees. Each division is led by a manager that is accountable for the efficient and effective execution of its responsibilities, under the direction of the DPW Director.

Reports from individual Divisions follow.

DPW ADMINISTRATION

The DPW Administration Office manages all Divisions of the Department of Public Works to ensure that the DPW is operating in the most cost effective and efficient manner possible, and works closely with other departments within the Town, providing technical support, plan review, and other miscellaneous support.

The Administration Office manages funding of all capital projects, including infrastructure repairs funded through State aid and Town capital funding. It is also responsible for Public Works related grant funding and federal reimbursement activities related to storm or other emergencies and manages all payroll and account payable activities of the Department of Public works.

Street Opening Permits are issued by DPW Administration, including inspection of all construction relating to Street Opening Permits done on Town roads by developers, contractors and homeowners, ensuring proper materials and methods are used in all work. In FY-21, the DPW issued and inspected 149 Street Opening Permits.

DPW Administration reviews Building Permit applications and Occupancy Permits (Sewer, Water, Highway, and Engineering sections), verifying that the requirements of each DPW Division have been met, proper permits have been obtained, and fees and billing are paid up to date. In FY-21, the DPW reviewed 638 Building Permits, and 105 Occupancy Permits.

The Residential Trash and Recycling program is also managed by DPW Administration.

Automated recycling continued this year, together with continued mandatory recycling enforcement and the automated trash collection program, resulting in a recycling rate over 24%. Recycling diverted over 4,300 tons of material being from the waste stream, saving the Town over \$347,500 in disposal costs. Sales of Official Overflow Bags for excess trash disposal resulted in over \$60,000 being returned to the General Fund.

Also, in FY-21, the DPW Administration Office processed 80 rebates out of the Water Conservation Rebate Program fund totaling \$10,750.00. Out of the 80 rebates, 22 were for washing machines at a rebate of \$225 each, 41 were for toilets at a rebate of \$100 each and 17 were for dishwashers at a rebate of \$100 each.

The Water Billing is also managed by DPW Administration and is responsible for all water meter repairs, meter readings, billing, and finals. There are two-meter repairmen who are responsible for the repair of all meters and endpoints in town. The Billing Manager and support staff from the DPW Administration answer customer calls and complaints throughout the day. There were 314 final water meter readings and 439 repairs scheduled for FY21. The Water Billing averages 30-40 calls a day and at least 5-6 walk-ins for meters, inquiries and or change of address.

ENGINEERING DIVISION

During Fiscal Year 2021, the Engineering Division managed the design, development and construction of the Town's various infrastructure improvement projects.

The Town of Billerica has 185 miles of accepted roads and 73 miles of unaccepted roads totaling 258 miles of roads.

In FY21 the following roads, or portions thereof, were repaved and/or reconstructed: Anniversary Way, Arrow Street, Bayberry Lane, Challenger Road, Crestwood Lane, Everready Circle, Fardon Street, Gail Ann Drive, Glad Valley Drive, Gove Road, Ironwood Street, Kender Place, Lilly Street, Market Street, Meadowlark Way, Moosewood Street, Nashua Road (Bridge at Concord River to Hawk's Ridge Road), Ossamequin Road (Morgan Road to Lupine Lane), Pink Street, Pond Street (Salem Road to bridge over railroad tracks), Race Street, Richards Street, Russet Road, School House Lane, Sequoia Street, Sourgum Road, Strand Street, Sumac Street, Tamarak Street, Tercentennial Drive (Kendrick Ave. to Russet Rd.), Tomahawk Drive, and Vine Street.

The following projects were in design development during this time period: Yankee Doodle Bike Path, Sewer Contract 37 (Needs Area 4), Sewer Contract 38 (Needs Area 6), Boston Road Improvements (River Street to Floyd Street), Phase II of the Frost Street Stormwater Improvements, Lexington Road Glad Valley Drive Intersection Improvements and Katie Durand Memorial Park.

The following projects were under construction: Boston Road Improvements (Cumming Street to Tower Farm Road, punch list items), Whipple Road and Andover Road Intersection Improvements, Sewer Contract 36 (Needs Area 3), Fox Hill Cemetery Expansion, Water Main Improvements on Boston Road, Middlesex Turnpike Improvements Project; Boston Road at Allen Road Intersection Improvements, Housing Choice Grant Project for Sidewalk Construction on Boston Road from Alpine Street to Forest Park Ave.

The Town's Stormwater Management Program, which is aimed at reducing the impact of stormwater on the nation's surface waters, is managed by the Engineering Division. Authorization to continue discharge of stormwater through the Town's *Municipal Separate Storm Sewer System (MS4)* was granted March 5, 2019. The Town of Billerica has 617 known stormwater outfalls that are regulated under the MS4 permit requirements. The Year 3 Annual Report was filed as required by the *Massachusetts Small MS4 General Permit* on September 29, 2021. The Division has continued with updating of the stormwater system in GIS mapping, inspection of all outfalls, annual training, public outreach and education as well as other efforts as required by the permit.

The Engineering Division maintains the centralized Geographic Information Systems (GIS) database for the Town. In addition to general maintenance of the publicly accessible and internal GIS sites, the annual update to the Assessor's parcel layer was completed. Updates to water, sewer, stormwater, and other miscellaneous layers were also completed as needed for individual departments. Implementation and maintenance of the PeopleGIS PeopleForm Database application continued throughout Town Departments to aid in the tracking and updating of information.

The Engineering Division provides services to the general public, private consultants, contractors, and other Town departments. These services include the following: plan reviews and inspections on subdivision construction, private projects, sewer extensions, as well as construction of road work required under the adequate access by-law; plan research; website updates with news and projects; and other miscellaneous tasks.

HIGHWAY DIVISION

Throughout FY-21 the Highway Division continued to provide necessary services to maintain the Town's roads and drainage systems and provide public safety throughout the Town.

The Highway Division performs salting operations and snow removal on the town's 248 miles of roads. This year's snow season produced 6 plowable snowstorms. The first event came on December 5th, 2020, with 4.4 inches. The last event was February 20, 2021, with 5.1 inches. Snowfall for the entire season totaled 55.6 inches. This snow season also had numerous storms below two inches. The Highway Division used 6,890 tons of salt this snow season. The Highway Division works diligently over long hours throughout these events to maintain a safe roadway system for the residents of Billerica. Each forecasted snowstorm is treated differently based on staffing level, the time of day, air temperature, pavement temperature, intensity, duration of snowstorm and the expected accumulation of snow. Prior to the snow starting, the Department of Public Works pretreats the roads and continues to do so during the storm. Once the snow accumulation reaches over 2 inches, operations change to plowing where Town staff and private contractors are dispatched to assigned routes.

In addition to emergency response and maintenance during inclement weather, the Highway Division also responds to emergency calls from the Police Department and the Fire Department to aid in cases of traffic and other emergency situations. The Highway Division also assists other Town Departments with various projects throughout the year.

The Highway Division performs regular day to day maintenance of the Town's roadway and drainage systems. The maintenance of the roadways included patching of failing areas of pavement, filling of potholes, replacing damaged pavement and berm, grading of gravel roads, patching of trenches from water breaks and Town drainage work, sweeping sand and debris from roadways, repair of guard rail, as well as responding to resident concerns and requests for various situations.

The maintenance of the drainage systems included the rebuilding of failing catch basins, installing new catch basins, repairing damaged drainage pipe, and installing new drainage pipe. There are 125 miles of drain mains and more than 4,901 catch basins throughout the Town. In FY 21 catch basin cleaning generated 378.8 tons of sediment.

Other work completed by the Highway Division includes the replacement of damaged or missing Town signs, roadway striping, such as crosswalks, stop lines and road centerlines and maintenance and repair of street signal lights.

The Motor Equipment Repair section of the Highway Division provides fleet maintenance of DPW vehicles and equipment, including preventative maintenance and repair of town cars, trucks, plows, sanders, and heavy equipment. The Motor Equipment Repair section of the Highway Division also administered the Town's waste-oil recycling program.

WASTEWATER DIVISION

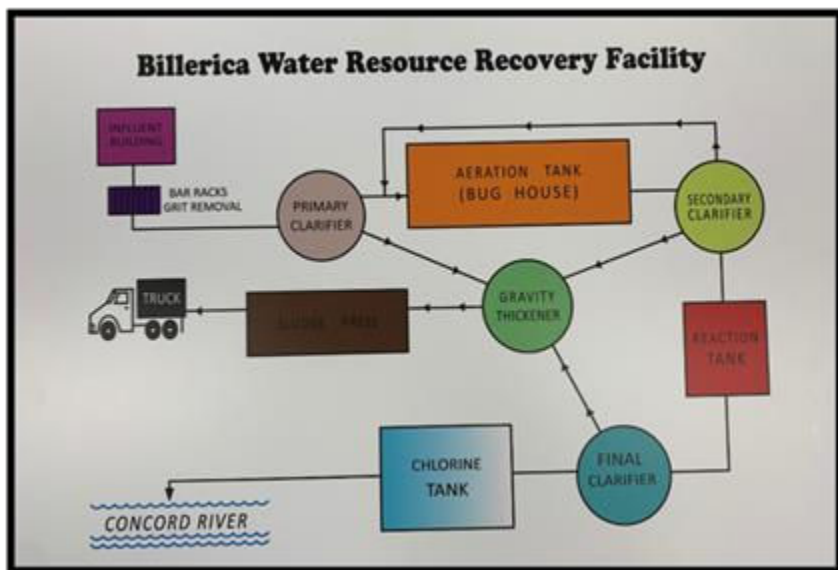
Water Resource Recovery Facility (WRRF)

Overview

The Town of Billerica operates a 5.5 million gallon per day (MGD) Water Resource Recovery Facility (WRRF) on Letchworth Avenue in North Billerica. Wastewater from commercial, residential, and industrial locations in the Town is treated at the plant and discharged to the Concord River. The quality of the discharge is monitored daily to assure it meets criteria set out in the National Pollutant Discharge Elimination System (NPDES) permit issued to the plant by the State of Massachusetts Department of Environmental Protection and the United States Environmental Protection Agency.

Preliminary treatment removes grit and rags from the incoming wastewater which then goes to primary clarifiers to allow heavier materials to settle out. This is followed by secondary treatment in which the wastewater is aerated and mixed with diffused air to allow bacteria to remove a large percentage of the organic material which then settles out in secondary clarifiers. The liquid stream is treated with various chemicals causing any remaining solids to flocculate and settle. This step removes phosphorus and aluminum. The wastewater is disinfected using sodium hypochlorite to inactivate any bacteria. Finally, sodium bisulfite is added to remove any residual chlorine. The water is then discharged into the Concord River.

Below is a flow diagram of how water and solids pass thru the WRRF.



Residuals Management

Solids produced as part of the treatment process are pumped from primary, secondary and tertiary clarifiers to gravity thickeners to further separate liquids from solids; they are then dewatered by our Fournier Rotary Presses (2). This process increases the solids content from less than 1% to an average of 24%. These dewatered solids are trucked to a licensed landfill by a private contractor. In this fiscal year we produced a total of 7540 dry tons of dewatered solids, an average of 145 ton/week.

In fiscal year 2021 the WRRF treated 1.387 billion gallons of wastewater with an average daily flow of 3.8 million gallons per day.

The WRRF also treats over 19 million gallons of drinking water waste every year.

Collection System

The wastewater collection system, composed of 200 miles of sewer ranging from 8 inch to 42 inch gravity lines and force mains, some low pressure systems and 22 pumping stations, provides service to approximately 85% of the Town. Division staff is responsible for the 24-hour operation of these stations and the cleaning, inspecting and repair of the sewer lines. During this fiscal year we issued 117 sewer connection permits.

Blockages are an unfortunate occurrence in the collection system and can cause sewage to back up in both public and private sewer lines, overflow into homes, onto streets or into the water bodies in town. Buildup of grease and rags/wipes buildup in the sewer line is often the cause of these blockages. The increased use of non-woven products such as baby wipes, cleaning wipes and other such products and their disposal in toilets continues to be a major and costly problem in the collection system causing blockages and equipment failure. The Wastewater Division has gone to great lengths to educate the public about how harmful these products are for the collection and treatment systems. The Wastewater Division performs classroom education in all elementary schools in Town and also includes educational flyers in bills. Our goal is to educate customers on objects that should and should not be flushed to the sewer collection system.

Laboratory Services

In the laboratory at the Wastewater Treatment Plant, the Laboratory Technician and operations staff perform an average of fourteen tests per day, seven days a week on at least six separate samples-over 30,000 tests per year. Samples that require more complex analysis are collected and sent to contract labs on a weekly, quarterly and annual basis. Some of these test results are used to monitor and adjust the physical, chemical and biological processes in the plant while others must be reported to the Environmental Protection Agency and the Massachusetts Department of Environmental Protection as required in our NPDES permit. The plant consistently meets permit requirements.

Industrial Pretreatment

The Industrial Pretreatment Program performs monitoring, inspection, and sampling of 23 industries to limit discharge of harmful chemicals into the sewer system. This program issues permits to all industries and has the ability to issue warnings and fines to those industries not meeting the provisions of their permit. These industries produce approximately 475,000 gallon per day of flow.

All industries are inspected annually, and their discharges sampled and tested to ensure compliance with their permits. The names of any industries with cited permit violations are posted in the Lowell Sun as required by

law. Each industry also samples and submits results to the Pretreatment Coordinator twice a year. This program is a requirement of MA DEP and the US Environmental Protection Agency, and the Sewer division reports to these agencies annually.

Accomplishments

The Public Education Program has been in operation since 1994, and each year staff visits over 100 elementary classrooms in Town. The program teaches our children the importance of not only water, but water usage, conservation, and treatment. Elementary schools up to the Billerica High School are included in our education program.

Other communities have contacted Town staff to model their Public Education Program as administered by the Billerica Water Resource Recovery Facility.

The Billerica Water Resource Recovery Facility as also featured in the Massachusetts Operators Newsletter and an example of a well-run organization. We were very proud of that!

Town staff was invited to participate in an OPERATOR EXCHANGE PROGRAM, where the Wastewater Operators Association allows “out of state” Operators (this year from Rhode Island) to observe and learn the operation of the Water Resource Recovery Facility. Billerica received extremely positive feedback from the association and will participate in this program again next year.

Collections staff flushed approximately 53 miles of sewer main in Town and performed closed circuit television (CCTV) inspection of 5.2 miles of sewer main. 27 sewer manholes were in FY21.

Collections staff replaced a 3.75 inch steel pump shaft at Brown St pump station and installed a 12 Kw generator set at Ricca Farm pump station.

The CoMag polymer system process at the WRRF was modified, which is anticipated to save an estimated 10 million gallons of water per year. Plant staff replaced 2 different polymer pumping systems for CoMag and one polymer pumping system for the Fournier Press (sludge dewatering system). In addition, Plant staff replaced 6 diaphragm chemical pumps, installed 6 new peristaltic pumps, rebuilt a scum pump and replaced 200 feet of 3/4 inch chemical lines.

WATER DIVISION

Water Treatment Facility

During the 2021 Fiscal Year a total of 1,856,000,000 gallons of water was pumped from the Water Treatment Plant (WTP) to the Town’s distribution system. This highest daily pumping occurred on July 12, 2020 with 8.5 million gallons produced. The average daily volume this year was 5.2 million gallons. Monthly pumping data for the fiscal year is listed below.

Article I. Month Pumping Totals

<u>Month</u>	<u>Pumped MG</u>	<u>Month</u>	<u>Pumped MG</u>	<u>Month</u>	<u>Pumped MG</u>
July 20	211.1	Nov. 20	116.7	Mar. 21	129.4
Aug. 20	197.0	Dec. 20	120.4	Apr. 21	129.8
Sept. 20	172.7	Jan. 20	125.5	May 21	179.6
Oct. 20	139.1	Feb. 20	118.5	Jun. 21	216.0

The Water Treatment Plant has been in operation for fifteen years and continues to produce high-quality drinking water. During FY21 construction of a new Ozone Process Building was completed. This project included the replacement of ozone equipment that had reached the end of its useful life and relocation of new ozone equipment closer to the point of application to alleviate maintenance issues associated with high ozone concentrations in a long length of pipe at a low velocity. The ozone equipment is now housed in the new building close to the point of application. The new ozone equipment became operational in summer of 2021 and is used for manganese removal

Water Testing

The Water Division tests tap water in homes that are likely to have high lead and copper levels. The following are the most recent results:

2019 Lead & Copper Results

	90% Value	(Target) Action Level
Lead	2.00 ppb	15 ppb

Copper	25.0 ppb	1300 ppb
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Each month the Water Division samples ten sites Town-wide for corrosion control characteristics such as: pH, temperature, total dissolved solids, alkalinity, and hardness.

Each week the Water Division samples thirteen sites Town-wide for total coliform (bacteria) and chlorine residual.

You might have seen recent news reports about per- and polyfluoroalkyl substances (together abbreviated as PFAS). These are a class of human-made chemicals typically associated with manufacturing of non-stick coatings, water-proofing and stain-proofing treatments. They have also been associated with certain fire-fighting foams.

The Massachusetts Department of Environmental Protection (MassDEP) set a standard of 20 parts per trillion on October 2, 2020, for the sum of these six PFAS compounds (called PFAS6)

- Perfluorooctanoic acid (PFOA)
- Perfluorooctanesulfonic acid (PFOS)
- Perfluorononanoic acid (PFNA)
- Perfluorohexanesulfonic acid (PFHxS)
- Perfluoroheptanoic acid (PFHpA)
- Perfluorodecanoic acid (PFDA)

Below are test results for 2021:

(Note: **ND** is non-detect)

December 1, 2021	MCL	MRL	FINISHED
REGULATED(PFAS6)	ng/L	ng/L	12/1/2021
Perfluorooctane Sulfonic Acid (PFOS)		2.00	1.47

Perfluorooctanoic Acid (PFOA)		2.00	2.29
Perfluorohexane Sulfonic Acid (PFHxS)		2.00	ND
Perfluorononanoic Acid (PFNA)		2.00	ND
October 25, 2021	MCL	MRL	FINISHED
Perfluoroheptanoic Acid (PFHpA)		2.00	1.11
REGULATED(PFAS6)	ng/L	ng/L	10/25/2021
Perfluorodecanoic Acid (PFDA)		2.00	ND
Perfluorooctane Sulfonic Acid (PFOS)		2.00	3.26
SUM OF PFAS6*	20		2.29
Perfluorooctanoic Acid (PFOA)		2.00	5.51
Perfluorohexane Sulfonic Acid (PFHxS)		2.00	1.46
Perfluorononanoic Acid (PFNA)		2.00	1.16
Perfluoroheptanoic Acid (PFHpA)		2.00	2.7
Perfluorodecanoic Acid (PFDA)		2.00	ND
SUM OF PFAS6*	20		11.5

Water Ban

In early summer of 2020, outdoor water use was prohibited from 9AM to 5PM each day as required by the Department of Environmental

Protections water withdrawal permit. Due to lack of precipitation in August outdoor water use was further reduced to one day a week. Outdoor water use was allowed on the east side of Town on Saturday and the west on Sunday, using Boston Road. as the dividing boundary.

Water Distribution System

The Billerica Water Distribution System contains approximately 235.5 miles of water mains ranging from 4" diameter to 24" diameter. The first water distribution pipes were installed in 1898 and some are still in service today. The distribution system also contains 1,990 fire hydrants.

The Water Division performs leak detection on the entire water distribution system each year. In FY21, two water main leaks, seven service line leaks, and nineteen leaking hydrants were discovered and repaired estimated to save 93.8 million gallons per year.

The Town's distribution system contains two storage tanks that function to maintain system pressure, provide fire flow and buffer the Water Treatment Plant from sharp process rate fluctuations.

The larger tank nearer to the Town center contains 7.5MG when full and the smaller (Crosby Hill) tank contains 1 MG when full. Water Division staff inspect the tanks each week

The Fox Hill Water Booster Station serves the Fox Hill area of Town and operates automatically, typically during the summer months, to satisfy peak demands.

Water Main Breaks

During the FY 21, the distribution system experienced forty-nine main breaks.

Cross Connection Control Program

During calendar year 2021 the Water Division completed the thirty-first year of our Backflow Prevention Program. The Billerica Cross Connection Program received official approval on August 31, 1989. By the mid 1990's the Water Division completed the task of surveying all existing facilities.

For the period starting July 1, 2020, and ending June 30, 2021 our database revealed 38 properties being surveyed or resurveyed for cross connections. By years end 541 double check valve assemblies, 1,102 reduced pressure zone backflow devices, and 41 vacuum units are recorded as in place to protect the public water supply for a total of 1,684 testable devices. A combined total of 2,557 backflow prevention device tests were performed in FY21. Total revenue generated from backflow device testing totaled \$87,900 in FY21.

Cross Connection Control Program Annual Notice

The Town of Billerica accepted the responsibility to fully implement a cross connection control program in August of 1989. Billerica's cross control program requires:

- The Town to survey all industrial, commercial, institutional, and municipal properties for cross connections.
- Where a cross connection cannot be eliminated it must be protected by a properly installed backflow control device.
- A reduced pressure zone or double check valve backflow device installed to protect a cross connection must be approved. Design data sheets and plans are submitted to the cross-connection office for approval by a certified surveyor.
- Following approval, installation, and initial testing the backflow device will need routine testing. All low hazard or seasonal backflow devices are scheduled annually. All high hazard devices are scheduled semi-annually. Testing must be completed by the Town of Billerica or its designee.
- Residential high and low hazard devices, devices installed on fire systems, irrigation or other equipment are included in the regulations and must meet the requirements of the Town's cross connection program. A cross connection survey is not required for a private residence.
- The office of the Massachusetts Department of Environmental Protection strongly promotes consumer education. To meet the education goal the Town includes backflow information in our annual Consumer Confidence Report, provides informational pamphlets, supplies copies of backflow regulations and offers personalized help for completing data sheet and plan approvals.

Additional information about our program is available at the office of Cross Connection Control located at the Water Treatment Plant at 270 Treble Cove Rd., North Billerica, MA 01862-2803.

Accomplishments

The following water mains were replaced in FY21:

- Boston Rd. – ten-inch cast iron pipe installed in 1932 was replaced with 1,468 ft. of twelve-inch class 52 ductile iron pipe from the bridge at the Concord River to Floyd St.
- Phiney St. – approximately 262 ft. of eight-inch class 52 DI pipe was installed from Boston Rd. to the existing main on Hadley St. This construction eliminated a dead-end water main.
- Ossamequin Rd. – six-inch cast iron main pipe installed in 1959 was replaced with 590 ft. of eight-inch class 52 ductile iron pipe from Morgan Road. to Lupine Lane.

In FY21 the Water Division staff replaced 14 hydrants and contractors replaced an additional 4 hydrant. Many hydrants were painted as needed.

CEMETERY DIVISION

The Cemetery Division is responsible for the operation and maintenance of the Town's six cemeteries: Fox Hill, North, South, Job Hill, Old North, and the Rogers Family Tomb.

There were 204 burials in FY2021. Total revenue generated from the sale of grave plots and other services provided by the Town for FY21 was \$281,310. Cemetery Division staff installed 32 flat grave markers, 29 Veteran markers and 116 foundations for head stones.

During FY21, the Fox Hill Cemetery Phase II Development project was nearing completion. The contract included the development of 2,270 grave spaces including: 1,370 full casket burial graves, 315 small size cremation only graves, 120 full size graves to be used for cremation only, concrete retaining wall with 192 cremation niches, 273 pre-installed concrete lawn crypts with bar foundations

PARKS & TREES DIVISION

The Parks & Tree Division is responsible for pruning and maintaining public shade trees and removing dead trees on Town properties. In FY21 One hundred eighteen (118) trees were removed. Parks & Tree staff trimmed and cut approximately 200 miles of brush on Town roads.

The Parks & Tree Division is responsible for maintaining and mowing more than 95 acres of all Town fields including the Lampson Complex, and the Old Water Plant. The Parks & Tree Division also reconstructed four (4) softball infields and replaced all safety caps on all fields.

Other areas maintained by the Parks and Tree Division include the Town Common, Library, Town Hall, Korean Veterans Memorial, the Talbot Oval, Police Station, Kids Konnection, Marshall, Pollard, two Vining fields, and twenty-five squares located throughout the Town.

In addition, the Parks & Tree Division waters all flowers, sets up holiday lighting on the Town Common and participates in snowplowing and other duties as directed.

Respectfully Submitted

Frederick W. Russell, PE

Director of Public Works

Library

Billerica Public Library – Annual Report – FY21

In FY21, the continuing COVID-19 pandemic required library staff to creatively devise and implement changes to our services and programs to continue to serve the community responsively and safely in accordance with evolving state and local guidelines. We started the fiscal year with our building closed to the public, but with library staff offering remote assistance, virtual programs, and curbside pickup of materials and printouts. We ended the fiscal year with the library building open to the public without appointment, curbside and remote services available, normal operating hours restored, and with a mixture of virtual, outdoor, and capacity limited indoor programs planned for the summer.

On July 13, 2020, the Billerica Public Library building reopened to the public by appointment, while continuing to offer curbside and remote services to those who preferred them. The new appointment system allowed patrons to book a limited time visit to the library for a specific purpose such as browsing the stacks or using a computer. Three months later on October 13, 2020, the library was able to open without appointments required but with slightly reduced hours, with capacity limits, and with limited seating. Curbside and remote services continued in order to give patrons a range of options to make use of the library.

On December 23, 2020, the library building closed to the public, curbside service was temporarily suspended, and the library offered remote programming and reference services. This continued the week of January 4, 2021 while the library's boiler was replaced. On January 12, 2021, when the new boiler was installed and operational, curbside pickup was relaunched. Then, on January 28, 2021, the library building was once again

opened to the public without appointment and with express services designed to give patrons quick and convenient access to in-person and remote options to use the library safely.

On June 1, 2021, the library resumed normal operating hours and restored additional services including full seating and computer availability and study room bookings. A mix of outdoor and very limited indoor in-person programming along with virtual programming was planned for the library's annual summer reading challenge. The library also committed to permanently continue many of the popular services introduced and/or popularized during the pandemic, including offering curbside pickup, curbside printing, chat/SMS reference services, and book bundles.

Throughout the year, with a mix of determination, ingenuity, passion, and adaptability, the library's staff overcame numerous obstacles to adjust old ways and develop new ways of providing the resources, services, and programs the community expects. Notable accomplishments included:

- Growing the library's e-resource offerings to include resources like Hoopla, Creativebug, and AtoZ databases, which expand the community's access to remote information and entertainment content.
- Improving collection discovery and access by labeling fiction series, adding bookmarks to books suggesting similar authors, adding book displays to the library's website, relocating all teen collections to one area, and offering a "book bundle" service to curate books for readers based on their personal reading tastes.
- Balancing in-person and remote services to give patrons convenient ways to use the library, including offering in-person and curbside borrowing, providing in-person and curbside printing services, facilitating in-person access to computers and the borrowing of laptops for at home use, and expanding reference services to include in-person, phone, email, chat, and SMS/text options.
- Relocating staff workspace assignments to improve workflows, collaboration, and service point coverage.
- Pursuing a digitization grant through Boston Public Library to digitize the Town's Annual Reports, which resulted in over 150 years of Billerica Annual Town Reports being made available and searchable to the public through the Internet Archive.
- Offering nearly 450 virtual, call-in, and recorded programs for patrons of all ages, including book discussions, storytimes led by our talented youth services staff, take-n-make crafts, health and wellness programs, and a successful virtual summer reading program.

Despite the service disruptions caused by the pandemic, the library building was open 2,416 hours, the library had 29,033 visits, and patrons took advantage of all the library has to offer:

- 172,683 physical items were borrowed
- 32,542 items were borrowed from other libraries
- 32,440 e-items were borrowed
- 25,817 databases uses were recorded
- 17,992 questions were answered
- 6,011 curbside pickups were made
- 8,432 patrons attended/viewed library programs
- 7,384 computer sessions were held
- 117,000 visits to our website were recorded

FY21 was also a year of leadership transition for the library. In November 2020, Library Director Jan Hagman announced to staff that she would be retiring in November 2021. Following this announcement, library administration and town administration worked throughout the latter half of FY21 (and into FY22) to prepare the organization for the pending leadership change.

I wish to thank the library's staff, the Billerica community, the Select Board, Town Manager John Curran, former Assistant Town Manager Cathy O'Dea, current Assistant Town Manager Clancy Main, the Library Board of Trustees, the Board of the Family Friends of the Billerica Public Library, and the Billerica Public Library Foundation Board for their continued support of the library and the great work that we do.

On a personal note, FY21 marked my last full fiscal year serving as Assistant Library Director. As I write this now, I am honored to do so as the current Library Director, appointed to the role on October 25, 2021. Looking back on FY21 and forward to FY22 and beyond, I know that the library is well positioned to innovate and adapt our offerings as necessary to continue to serve the Billerica community.

Respectfully submitted,

Joe St. Germain
Library Director

Town Clerk

TOWN CLERK'S REPORT

In accordance with Massachusetts General Laws, the report of the Town Clerk's Department for the Fiscal Year ending June 30, 2021 is hereby submitted:

Vital statistics recorded in FY 2021 are as follows:

Births	440	Marriages	154
Deaths	395		

These records were placed on permanent file in this office and at the State Vital Records Office in Boston. Certified copies were issued upon request.

Three elections were held in Fiscal Year 2021. A State Primary on September 1, 2020, the Presidential Election on November 3, 2020 and the Town Election on April 10, 2021. Passage of the "Help America Vote Act" made it easy and convenient for the voter to cast a ballot. The turnout for the Presidential Election was nearly 81 % of the registered voters. The Annual Town Election was held on April 14, 2021 with a 12% turnout.

Two Town Meetings were held in FY 2021. The Special Town Meeting, which took the place of the Annual, was held on October 3, 2020. Due to Covid-19 protocol, the Town Meeting was held on Saturday, October 3, 2020 in the Billerica Memorial High School, 35 River Street, Billerica. Each Precinct met in a separate room and social distancing was observed. Internet hook-up connected all the rooms together.

The Annual Spring Town Meeting took place on Saturday, May 8, 2021 in the Billerica Memorial High School at 35 River Street. This meeting convened at 10:00 a.m. and concluded at 7:55 p.m. This was a long session, but Town Meeting Members were determined to complete the work in one day.

The Town Clerk's Department performed the usual duties mandated by State and Federal Law, the Town By-Laws and the Town Charter and those services the public has come to expect as a matter of right.

The office continues to issue fuel storage registration renewals, business certificate, Sunday Entertainment Licenses, Open Meeting Law and the Ethics data base, dog licenses, letters of residency, campaign finance forms, as well as many assorted tasks.

As the Public Records Officer for the Town, the Town Clerk is responsible for notifying the appropriate Department of the requests and then following up on the request. Fiscal Year 2021 was a very busy year for these requests.

In Fiscal Year 2021, a total of 2,664 dogs were licensed. State Law requires that all dogs three months of age and older must be licensed by January 1st. Any dog domiciled in the Town of Billerica, not licensed by March 10th, is subject to a \$10.00 late fee.

FEES COLLECTED:

Certified Copies of Vital Records	42,590.00	Marriage
Intentions	3,660.00	Business Certificates
	5,850.00	Gasoline Fuel Storage
Permits	3,220.00	Miscellaneous
200.00		One Day Beer & Wine Licenses
90.00	Sunday Entertainment Licenses	620.00
	Raffle Permits	70.00
	Street List Books	180.00
	Burial Permits	1,610.00
Dog Licenses	16,924.00	Dog
Late Fees	2,090.00	Zoning By-Laws
	<u>24.00</u>	
	\$ 77,128.00	

Once again, my sincere thanks to everyone who has assisted this department throughout the year. The list is long. Just know that your help and assistance has been appreciated and it has been a pleasure to work with you.

Fiscal Year 2021 has been very challenging with Covid still a big concern. My sincere thanks to my office personnel especially my Assistant Margaret Ryan and Principal Clerk Stephanie Odell for their assistance and support during this difficult time. During the year, Senior Clerk Kimberly Smith transferred to the Building Department and we welcomed Michelle Ayers. Their dedication to serving the residents of Billerica makes the office run smoothly.

Respectfully submitted,

Shirley E. Schult, Town Clerk

Board of Health

February 18, 2022

To: The Honorable Board of Selectmen

The Board of Health presents this as its annual report for Fiscal Year 2021. The Board of Health is responsible for the protection of public health, welfare, safety and the environment in the Town of Billerica. This is accomplished through several public health programs that include ensuring a safe and healthy community through public health nursing programs, enforcement of environmental health codes, implementation of community health programs, and emergency preparedness activities.

Five dedicated community members form the Board of Health, appointed by the Town Manager for a three year term. The Board deliberates on and establishes public health policy and priorities for the Town, enacts regulations, and provides guidance on policy to the Health Department staff. The Board of Health consists of the following members:

Mike Grady, Chairman

Robert Reader, Vice Chairman

Sandra Giroux, Secretary

Marie O'Rourke, Member

Elizabeth Villar, Ph.D. Member (resigned September 2020)

In an effort to fulfill the goals of the Board of Health, the Health Department is staffed with professional environmental, public health, and support staff. The Health Department staff for Fiscal Year 2021 was comprised of the following individuals:

Kristel Bennett, Director of Public Health

Christine L. West, R.N., Public Health Nurse

Phavy Pheng, Health Agent

Joanne White, Principal Clerk, Recording Clerk

Shelagh Collins, Health Agent

During FY21 the Health Department continued in our efforts to address the COVID-19 pandemic. The Health Department staff worked tirelessly to address the disease burden of COVID-19 and to educate the public on guidelines and measures to slow the pandemic (mask usage, social distancing, testing, and vaccinations), and at the same time maintain all our programs to serve the need of the community.

During Fiscal Year 2021, the Health Department conducted the following services:

Building Permit Reviews	2056
Complaint Investigations	249/115 for Mask Complaints
Food Service Establishment Permits Issued	181

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Food Service Inspections Conducted	240 (COVID)
Temporary Food Service Permits Issued	13
Farmers Market Permits Issued	(No Farmers Market due to COVID)
Asbestos Removal Permits Issued	36
Disposal Works Installer Permits Issued	25
Funeral Director Permits Issued	4
Health Club Permits Issued	7
Horse & Barn Permits Issued	14

Hotel Permits Issued	3
Ice Rink Operator Permits Issued	2
Manufactured Housing Community Permits Issued	1
Needles & Syringes Permits Issued	2
Portable Toilet Permits Issued	0
Recreational Day Camp Permits Issued	2
Recombinant DNA Permits Issued	2
Septage Hauler Permits Issued	14
Septic System Permits Issued – New Construction	5
Septic System Permits Issued – Repair/Upgrade	33
Suntanning Salon Establishment Permits Issued	3
Swimming Pool Permits Issued	14
Transitory Gathering Permits Issued	7
Title 5 Inspector Permits Issued	7
Tobacco Permits Issued	37
Variances to Work in Floodplain or Near Floodplain	15
Administrative Determination to Work Near the Floodplain	19
Approval Waivers of Board of Health Regulations	6
Stormwater Management Approvals	7
New Food Establishment Plan Review Applications	5
New Swimming Pool Plan Review Application	1
Food Establishment Administrative Conferences	3
Well Permits Issued	18

During Fiscal Year 2021, the Public Health Nurse conducted the following services for residents:

SERVICE PROVIDED**NUMBER OF RESIDENTS**

Blood Pressures 0 (employees only)

Blood Sugar Test/Cholesterol Testing 0

Childhood Immunizations 0

Cholesterol Testing 0

Investigation and Control of Communicable Disease 245

(Confirmed, Contact, Probable, Revoked and Suspect Cases)

3,675 "lab" reported COVID-19 cases/followed up on about 3,000 cases

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Flu Vaccine (Clinics and Homebound) 450

Pneumonia Vaccine 0

Shingles Vaccine 2

Lead Screenings 0

Mantoux (TB) Tests 0

Tuberculosis follow-up/medication compliance 4

Vitamin B12 Injections 4

Annual medical records Camp Inspection 0

(Boys and Girls Club and Summer Camp Clinics)

Wellness Program for Town Employees

Referrals

In addition to the services provided above, the Public Health Nurse coordinated with school nurses on vaccine requirements, control of Communicable Diseases, student physicals, and COVID-19 cases within the schools. The Public Health Nurse managed the Need Drop Off Program which is a service to Billerica residents. The Public Health Nurse continued to coordinate community COVID-19 updates with the Town Manager's Office for Social Media postings and Information Technology for the Public Health Nurse website. The Public Health Nurse has continued COVID-19 Case Investigations for the community (since the first case that was reported on March 13, 2020) and when COVID-19 vaccine was available, the Public Health Nurse coordinated several clinics that were available to residents.

Respectfully submitted,

Mike Grady

Current Chairman

NMCOG

NORTHERN MIDDLESEX COUNCIL OF GOVERNMENTS

The Northern Middlesex Council of Governments (NMCOG) was established in 1963 under Chapter 40B of the Massachusetts General Laws and is one of thirteen (13) regional planning agencies in the Commonwealth. NMCOG serves nine communities in the Greater Lowell area, including Billerica, and provides professional technical assistance in the areas transportation, economic development, emergency management, land use, community development, permitting, smart growth, housing, historic preservation, open space and conservation, geographic information systems (GIS), pre-disaster mitigation and emergency response, and environmental protection. The Council's governing body is comprised of a chief elected official, Planning Board member and alternate from each member community.

The agency strives to bring a regional and interregional perspective to all areas of planning and resource management by fostering cooperative efforts between municipalities and encouraging collaboration between the public and private sectors. NMCOG promotes the interests of the local communities at the state and federal levels, and often acts as a liaison between the municipalities and other levels of government.

The Council maintains a staff of professional planners and technicians to assist in developing and implementing its policies. The Council meets monthly (usually the third Wednesday of each month) at 40 Church Street, Lowell, and all meetings are open to the public. Since the COVID-19 pandemic, all meetings have been virtual. Each NMCOG

member community pays an equal per capita assessment, which is used to provide the local match for various State and Federal grant programs. The Council's annual budget includes \$92,742 in local assessments, of which, \$12,786 represents Billerica's share.

NMCOG devotes a large share of its resources to transportation issues. The Council continues to assist the Town in acquiring funding and advancing the designs of the Yankee Doodle Bike Path, the Route 3A rehabilitation project, and intersection improvements at Boston Road, Lexington and Glad Valley Road. In addition, NMCOG continues to assist with implementation of the Middlesex Turnpike improvement project. NMCOG conducts an annual traffic-counting program, collecting over one hundred counts at various locations throughout the region. Many of these counts are conducted within the Town. The traffic count data is incorporated into a regional traffic count report made available on NMCOG's website at www.nmcog.org. In an effort to address changes in travel due to the COVID 19 pandemic, NMCOG continues to coordinate with MassDOT and the Town to monitor travel throughout the Town and region.

NMCOG continues to assist the Lowell Regional Transit Authority (LRTA) in the following areas: obtaining Federal capital and operating assistance, marketing programs to improve ridership and revenue, statistical monitoring and analyses, and planning evaluation of the LRTA's route structure and scheduling. Transportation services are available to Billerica seniors through the RoadRunner program. The LRTA provides fixed-route bus service Monday-Saturday along three routes in Billerica.

NMCOG is working with Billerica and eleven other communities in addressing the EPA Small Municipal Separate Storm Sewer System (MS4) permit requirements through the Northern Middlesex Stormwater Collaborative (NMSC). The Collaborative focuses on permit compliance by: undertaking a common public education and outreach program that is customized by each participating community; providing training for municipal staff and boards; developing and utilizing a regional GIS system for mapping stormwater infrastructure across municipal boundaries; and assisting with the procurement of stormwater related goods and services.

Under contract with the Town, NMCOG staff serves as the Town's Sealer of Weights and Measures. The Sealer of Weights and Measures is charged with enforcing the laws, rules and regulations relating to the use of weighing and measuring devices in commercial transactions. The types of devices tested include scales, weights, fuel dispensers, vehicle tank meters used in the sale of liquid fuel, and supermarket scanners.

NMCOG staff assisted the Town with development of the Green Community Annual Report, submitted to the Massachusetts Department of Energy Resources (DOER). The Town was designated as a Green Community in December 2018, and became eligible for state grant funding to advance energy efficiency initiatives. NMCOG also receives Affordable Access Regional Coordination (AARC) grant funding from the Massachusetts Department of Energy Resources (DOER) to increase access to clean energy and energy efficiency technologies for low-income residents and for low-income affordable housing owners and developers.

The Northern Middlesex Council of Governments (NMCOG) has completed an update of Greater Lowell Comprehensive Economic Development Strategy (CEDS), which is funded by the U.S. Economic Development Administration (EDA). The CEDS summarizes the economic resources of the region, establishes an economic development vision for Greater Lowell, identifies goals, and establishes a regional Five-Year Action Plan with priority projects to foster continued economic growth and vitality. The CEDS also incorporates the concept of economic resilience, e.g. the ability to withstand and recover from economic shifts, natural disasters, pandemics and the impacts of climate change. Regions must update their CEDS every five years in order for local communities to qualify for EDA assistance under the Public Works and Economic Adjustment Assistance programs and the CARES Act.

In response to the COVID-19 pandemic, NMCOG began work with the Town, along with other communities in the region, and the Greater Lowell Comprehensive Economic Development Strategy (CEDS) Committee to develop and implement the Greater Lowell Economic Recovery and Resiliency Plan (ERRP). Phase I of the ERRP identifies impacts of the COVID-19 pandemic on the region's healthcare system, food security, housing, employment, and business operations. The ERRP also identifies federal and state resources utilized for pandemic relief in the region, and develops strategies and recommendations to address COVID-19 going forward. Phase II of the ERRP, currently underway, focuses on implementation of the strategies and recommendations and will outline steps to ensure that Greater Lowell communities are prepared for future disasters. Work on the ERRP is primarily funded by a grant from the U.S. Economic Development Administration (EDA)."

In 2021, NMCOG staff worked with Billerica, other regional communities, and the CEDS Committee to prepare and submit an application to the EDA for regional designation as an Economic Development District (EDD). Designation as an EDD would provide increased access to EDA's public works assistance grants for individual municipalities including Billerica.

Respectfully submitted:

Andrew Deslaurier, Councilor, Billerica Board of Selectmen

Christopher Tribou, Councilor, Billerica Planning Board

Mary McBride, Billerica Alternate

Board of Registrars Report

BOARD OF REGISTRARS' REPORT

In accordance with Massachusetts General Laws, the Board of Registrars hereby submits its report for the Fiscal Year ending June 30, 2021.

FY 2021 was a very busy year. There were three elections: the State Primary on September 1, 2020, The Presidential Election on November 3, 2020, and the Town Election on April 10, 2021. Due to special legislation passed to combat the Covid-19 pandemic the State Primary was moved to September 1st from the third Tuesday of September. The Presidential Election was held on November 3, 2020. Turnout was a very heavy for the Presidential Election. Billerica had nearly an 81% voter turnout.

As mandated by State Law, the Annual Town and School Census was taken in January. Census forms were mailed to all residences in Town. Once the forms were returned, the information uploaded to the computers. This information is crucial for voter list maintenance, for residency verification, school enrollment projections, State Aid reimbursements as well as many other uses. Prior to June first each year, this information is provided to the Jury Commissioner for jury pool selection.

Plans are underway for the redrawing of Precinct lines which is mandated by the Federal Census. This office anticipates the addition of one Precinct.

The number of Voters on file for the 2020 Presidential Election was 30,663 and by precinct the numbers were as follows:

Precinct 1	3,084
Precinct 2	2,851
Precinct 3	2,799
Precinct 4	2,370
Precinct 5	2,863
Precinct 6	2,752
Precinct 7	2,663
Precinct 8	2,981
Precinct 9	2,752
Precinct 10	2,766
Precinct 11	2,782

The breakdown was a follows:

Party	7,047		Democratic
	3,583	Un-enrolled	Republican Party
		Libertarian Party	114
			19,641

		Interdependent 3 rd Party	23	
	Reform Party	1		
	Green Rainbow Party	14		New Alliance
Party	1		Conservative Party	33
			Green Party USA	4
		America Independent Party	17	
		MA Interdependent Party	20	
	Pizza Party	10		
	United Independent Party	134		Constitution
Party	2		Socialist Party	7
		Pirate Party	7	
		Working Families Party	2	
		America First Party	2	
	Veterans Party America	1		

James H. Davis, Jr. was re-appointed to a three-year term on the Board. This term will expire on March 31, 2023.

The Board Members assisted on Election Days, delivering extra materials as needed and picking up the voting machines and returning them to the Town Clerk's office at the close of the day.

A special thanks to Senior Clerk Lori Blake for her hard work in keeping the office running smoothly. This was an especially busy election year and her dedication and attention to detail ensured that the voting rights of all the citizens of Billerica were preserved and the integrity of the election process was and continues to be upheld.

The Board thanks the many persons who have assisted them throughout the year, the Election Officers, the DPW Workers, the School Custodians, the Police Officers and the Town Maintenance Staff. You all played a very important role in making the Elections in Billerica run smoothly.

Respectfully submitted,
Clerk/Board of Registrars

Shirley E. Schult, Town
James H. Davis, Jr., Chairman

Donald H. Lovegrove
Michael J. Rea, Jr.

Council on Aging

Overview

The Billerica Council on Aging continues to invest in efforts to:

- Erase ageism and/or built-in biases about aging.

- Focus our strengths to meet the needs of Billerica's older and younger seniors while leveraging intergenerational potential.
- Reinforce our stance as a community health and wellness center for seniors by addressing a range of needs from checking blood pressures to loneliness, isolation and increased mental health counselling, leveraging clinical skills of community partners and consultant.
- Offer some programming to younger seniors seeking a different experience that is punctuated by active living and lifelong learning.

Optimizing Our Impact Despite Covid

Our Center reopened on July 6th, 2020, after having been closed to the public for several months due to the Covid emergency. With guidance from the Town Manager and Board of Health, we reopened our doors to patrons with a limited set of activities, primarily exercise programming. Classes were reduced in size to adhere to social distancing requirements, masks were required, symptom checks were performed at the entrance and monitors oversaw all activities to be sure everyone complied with the protocols that had been established.

Highlights

We continued to upgrade, refine and advance our core programs using feedback to maximize benefits to our patrons

- Food Insecurity: We managed the third year of the weekly Lahey Fresh Produce market combining it with non-perishable food boxes from Greater Boston Food Bank for 80 patrons each week, as a drive-through, July 16th to October 29th.
 - Drive-through Lunch Events: The Martin Luther King drive-through attracted 35 patrons while we hosted 40 patrons for the 2021 Chinese New Year drive through. We continued with Grab and Go meals for St. Patrick's Day and two more drive-through events sponsored by the Sunshine Gals and Wood Haven Retirement Community, Tewksbury.
 - We distributed food boxes with both perishable and non-perishable items, many of which were donated to us by the Billerica Public School's food program, to over 700 seniors during the year.
- We maintained our Senior/Veteran Tax Work-Off Program from Aug 1, 2020, to Feb 28, 2021. Despite Covid challenges for placement we had 66 Seniors and 9 Veterans enrolled in the program compared to the FY19-20 period when we had 95 Seniors and 13 Veterans.
- We introduced a new 2021 Health and Wellness Expert Series with Lahey Hospital and Medical Center produced on BATV. Program began with Diabetes (Heather Elias, MD) and Heart Health, (Lee Joseph, Cardiologist) and Christine Kovacs, Rheumatologist covered an Update on Arthritis. In addition, Matthew Page Sheldon, Licensed Mental Health Clinician and Executive Director of The Front-Line Initiative covered "Mental Health during the Pandemic".
- Programs Under the Tent: We rented a 20x40 foot traditional frame tent for 2 months, funded by Elder Services of Merrimack Valley (now AgeSpan), which allowed for added summer programming including an August 2020 session where the Town Manager read "Your Inside Shape" to kids and family members. We were able to continue card making classes, knitting and social time group sessions using the tent. The tent was also used for a variety of musical performances including a Mothers' Day sing- along concert with

Singer/Guitarist, Howie Newman (supported by Mass Cultural Council), Wendee Glick and Steve Heck who entertained with selections from the Great American Songbook and David Bates for a Fathers' Day Celebration. We also held educational programs including Keep Safe / Keep Moving with our Fire Department and a World Elder Abuse Day program with community partners with handouts and giveaways.

- Our AARP Tax Aide Program completed 84 additional 2019 tax returns in July 2020 (in addition to the 210 completed prior to March 2020 Covid shutdown) then completed 320 2020 tax returns in February through April of 2021.
- NEW Programming on our Local TV station, BATV: We added several exercise programs including 60+ Strength Training, Joe Fish Exercise, Yoga with Nicole, Pat Fino Chair Aerobics and Cardio Boost. We also offered more entertainment and history programs, including Sheryl Faye as Anne Frank, Mabel and Jerry, Robert Neary performed Neil Diamond and history of the US Postal Service by Henry Lukas.
- We continued to address social isolation effectively through a range of interventions.
- After a brief pause, by September 2020 Our Respite Companion Program was back in operation. Our Companions are Billerica residents many of whom have cared for older family members for years. They form a deep bond with our clients built on trust so that seniors can truly share their concerns especially during the isolating period of Covid. Companions offer comfort and assist with various in-home tasks. They are CORI screened and CPR certified.

Continuing To Innovate

We seized opportunities to try new things that would help us be more successful in the long run. Weekly staff sessions helped us devise best possible approaches to deal with rapid change. A committed staff team allowed us to be the **only** COA out of 350 COAs in the Commonwealth to be fully opened as of July 2020. We took several steps to increase safety in the building.

- Three months of extensive work by our Admin lead led to launch online program registration and payment within My Senior Center. This was done to increase safety in our lobby by reducing crowding and to move toward cashless registration and payment.
- All Exercise programs (6 programs per week) resumed as of July 1, 2020, and classes were free of charge for 9 months, costing us \$2,000/monthly. This was done to reduce person to person transactions at the front desk during the height of Covid 19 and to encourage patrons to return for fitness programs in a safety conscious environment.
- Limited participation in social programs which restarted in July of 2020. Patrons were required to register to attend and there were strict limits on participation.
- Working with our local Board of Health, we implemented numerous health and safety protocols and required strict adherence to those protocols in the building. Any activity that could not be conducted within those protocols, such as games, was not allowed to resume.
- Zoom programming was a hit with a range of uses. These included performers like Roger Trembley on his accordion, musician John Root who sang and played the flute, clarinet, saxophone and keyboards and other such programs. We had several health-based offerings such as Brain Healthy Eating and Gut Health programs by registered dietician Leigh Hartwell. We also transitioned our monthly Dementia Memory Café to Zoom.
- Since many in our Social / Craft groups like Knitting were uncomfortable being in the facility, we held weekly Zoom sessions with them throughout the year. Once spring and our tent arrived, many of them then returned to these activities as they were held outside of the building.

- October 2020: Worked with our Board of Health to deliver 160 flu shots on site. SalemFive provided pens for safe form completion while Benchmark Billerica and Stoneham Bank fielded informational booths in our rear parking lot.
- Additional programs returned safely in May and June of 2021; including use of our Fitness Room, Horseshoes, increased Transportation availability and more entertainment programs such as Name that Tune.

Leveraging Community Support to Increase Our Resilience

Building and strengthening relationships ahead of time with community organizations was a significant lever during these 12 months. With the support of Friends of the Billerica COA, Stoneham Bank, Fallon Health, Billerica Lions Club, Cabot Corporation and The Sunshine Gals and others, we weathered a rough year plagued by uncertainty.

Looking Out and Forward

We survived during this period through equal parts of creativity and placing the life quality of local seniors first. As a staff team along with volunteers who ventured to rejoin us while the pandemic raged, we developed deeper trust among us and a focus on WE CAN. As we look to July 2021 and beyond, we aim to:

- Sustain Core Operations.
- Bring back more programming and patrons slowly and safely.
- Re-establish the building's inner welcoming atmosphere – now sterile.
- Summon as much creativity and boldness as possible thinking about the future.
- Continuing to work with the Billerica Public Library and other local organizations to maximize intergenerational programming.
- Working with town leadership, vision, and plan for a new senior center that:
 - Maximizes the life quality of the 'young old' and the 'old old' in town.
 - Accommodates population growth and evolving needs in the senior population.
 - Depends less on volunteer capacity but on a right sized cadre of aging service professionals fully trained to address the needs of the older and younger consumer.
 - Maximizes synergies of co-locating with the Recreation Department.

Emergency Management

The Billerica Emergency Management Department is comprised of 1 full time Director, and 30 volunteers. Our volunteers are members of the Billerica Auxiliary Police Department, and the Billerica Citizens Emergency Response Team.

The Billerica Emergency Management Department is the town agency responsible for coordinating federal, state, local, voluntary, and private resources during emergencies and disasters. Our department provides leadership to: develop plans for effective response to all hazards, disasters, or threats; train emergency personnel to protect the public, provide information to the citizens, and assist individuals, families, and businesses to mitigate against, prepare for, and respond to and recover from emergencies, both natural and manmade.

These plans have been put into use these many months due to the COVID Pandemic. Billerica Emergency Management has been refocused due to the pandemic. Its members have worked diligently in assisting in COVID testing and vaccine sites. They have also inventoried, and distributed PPE supplies to Town employees when required. We have also worked closely with MEMA in keeping Billerica supplied with COVID related information in fighting the Pandemic.

Billerica EMA has worked on and completed a complete and functional Mass Care Sheltering Plan which can meet the sheltering needs for Billerica residents. However, during a large scale regional event or prolonged emergency response situations we realized that our local shelter resources could become overburdened. To enhance the overall mass care sheltering capabilities I have also written an update to a Regional Sheltering Plan which I entered into with the Towns of Wilmington and Tewksbury. By using a regional approach we can increase our response by sharing resources and manpower. We have also incorporated a Regional Medical Needs Sheltering Plan which would open a shelter at the Tewksbury State Hospital for individuals with needs greater than a general population shelter can provide.

We have also been able to complete a generator plan for the Council of Aging which gives us the ability to set up a warming center for the Town in case of widespread power outages. I have completed a functional Debris Management Plan. A debris collection strategy establishes a systematic approach for the efficient removal of debris so that the Town of Billerica can recover quickly after a natural disaster. Having a FEMA accepted plan in place can expedite not only the process but can enhance the Federal procedure for applying for financial disaster reimbursement.

The Billerica Auxiliary Police Department consists of 20 volunteers. Their mandatory training consists of 45 weeks at the Northeast Regional Police Institute, with annual re-certification. They are all certified First Responders, CPR & First Aid trained, and many are certified EMTs. Its members are also required to be fully NIMS trained, along with associated Emergency Management Institute training, and American Red Cross Shelter Management trained. All of this training along with the cost of uniforms and personal equipment are paid by the member, at no cost to the Town of Billerica

The following is a breakdown of man-hours expended by the Billerica Auxiliary Police Department for the calendar year 2021:

EMERGENCY CALL OUTS: 6.0 hours

Emergency call outs consist of emergency pumping of residential and municipal properties, emergency generator dispatch for residents, emergency lighting unit dispatch, assisting in missing person searches, security details, assorted traffic details, and personnel standing by in snow and flood emergencies. Many of these duties have been limited due to the pandemic. All duties requested by either the Billerica Police or Billerica Fire Departments.

WEEKLY PATROL: 631 hours

Patrol of all municipal property, schools, parks, playgrounds, cemeteries, DPW, water treatment plants, pumping stations, power plants, beaches, and library. Foot patrols are also mandated for elderly housing units and senior centers.

TOWN EVENTS: 432 hours

Town events have been limited to assisting with COVID testing and vaccine sites, and helping with the influx at the Food Pantry.

TRAINING: 105 hours

This mandatory training is done monthly and reflects the training required for a special police officer.

TOTAL MAN-HOURS EXPENDED 2021: 1,174 hours

These hours do not reflect the man-hours required for maintenance and repair of emergency management equipment.

I hope this memo sheds some light on the invaluable service the Billerica Auxiliary Police Department provides to the Billerica Emergency Management Department and the Town of Billerica

Sincerely,

William J. Laurendeau, Director

Billerica Emergency Management

Conservation Commission

The Billerica Conservation Commission is comprised of seven members appointed by the Board of Selectmen for a term of three (3) years each. The following Conservation Commission Members served in Fiscal Year 2021: Paul Hayes (Chair), JoAnne Giovino (Vice-Chair), Diane DePaso (Secretary), Jack Bowen, Betsy Gallagher, Marlies Henderson, and Jeff Connell. The Conservation Department works closely with the Conservation Commission, serving as a liaison between the Commission and the community including residents, landowners, businesses, engineers, land use consultants, attorneys, utility companies, wetland and stormwater peer reviewers, Town departments and various federal and state government agencies. During Fiscal Year 2021, Conservation Department staff consisted of Isabel Tourkantonis - Director of Environmental Affairs; Mike DeVito - Conservation Land Use Assistant; and Liz Ells - Senior Clerk.

The Conservation Commission serves three primary purposes:

- Administers and enforces state and local wetlands protection laws, as well as the state's Massachusetts Stormwater Management Policy when a projects triggers review under the Massachusetts Wetlands Protection Act;
- Manages Town-owned conservation land and monitors conservation easements and restrictions; and
- Conducts outreach and education regarding the Town's natural resources and watersheds.

Regulatory Review

The Billerica Conservation Commission is the official municipal agency specifically charged with the protection of Billerica's natural resources. One of the key duties and responsibilities of the Commission is to administer and enforce the Massachusetts Wetlands Protection Act (M.G.L. Ch.131, Sec. 40) and its Regulations (310 C.M.R. 10.00) and the Billerica Wetlands Protection Bylaw (Article XXII of the General Bylaws). The Commission maintains an active regulatory review schedule since the Town has two major waterways and their expansive watershed areas: the Concord River which the Town's sole public drinking water source, and the Shawsheen River.

The Commission generally meets twice a month, on the 2nd and 4th Wednesday of every month. In Fiscal Year 2021, the Commission held twenty (20) public meetings and reviewed the following wetlands permit applications and formal requests associated with small to large-scale projects: forty (40) Notices of Intent; two (2) Abbreviated Notices of Resource Area Delineation; three (3) Requests for Determination of Applicability; two (2) Requests for Extension Permits; and twenty-nine (29) Requests for Certificate of Compliance (as-built reviews). Formal permits and/or decisions and approvals issued by the Commission included: thirty-one (31) Orders of Conditions; one (1) Order of Resource Area Delineation; two (2) Determinations of Applicability; one (1) Extension Permit; and eleven (11) Certificates of Compliance. The difference in the number of permit decisions versus the number of applications filed is the result of hearings on certain projects that continued from one fiscal year to the next.

Staff also reviewed emergency and maintenance-related project work involving septic system failures, and roadway and drainage infrastructure repairs, which posed an immediate threat to the environment and/or public safety.

In addition, Conservation staff reviewed, and in many cases completed site visits associated with approximately four-hundred and ninety-four (494) building applications for various construction projects. Staff also reviewed

approximately ninety-eight (98) Occupancy Permit requests. Site plan reviews are also regularly completed by Conservation staff as part of the Planning Board and Zoning Board of Appeals review processes.

Throughout the year Conservation staff also reviewed thirty-five (35) tree safety issues reported by residents and collaborated with the Billerica Parks and Trees Division when needed. Staff also conducted daily site visits and inspections required for new and ongoing wetlands application reviews (Notices of Intent, Requests for Determination of Applicability, Requests for Certificates of Compliance, pre-construction meetings, post-construction inspections and monitoring, etc.) and construction activities to ensure project sites remain in compliance with permit conditions (*e.g.*, are properly stabilized and that adequate short and long-term best management practices are implemented to protect nearby wetlands and waterways).

Enforcement Orders and violation notices are issued when significant violations of state or local wetlands protection laws and regulations occur. During Fiscal Year 2021, Department staff actively worked on resolving enforcement matters and violations that required mitigation and restoration of altered wetland resource areas and/or buffer zone. Conservation staff responded to and investigated numerous complaints of potential wetland violations (*i.e.*, tree clearing, alteration of vegetation, filling, grading, building activities, etc.) and recommended appropriate corrective-action to restore impacted wetland and buffer zone areas.

Coordination and Collaboration

Each year the Commission, primarily through the Conservation Department, coordinates and collaborates with local, state and federal environmental agencies on matters pertaining to wetlands permitting, enforcement and the management and protection of open space lands – these include but are not limited to the Massachusetts Department of Environmental Protection (MassDEP), Massachusetts Environmental Policy Act Office (MEPA), Division of Conservation Services (DCS), Department of Conservation and Recreation (DCR), National Park Service (NPS), Massachusetts Department of Transportation (MassDOT), Shawsheen River Watershed Association (SRWA), Sudbury Valley Trustees (SVT), Sudbury, Assabet & Concord Wild and Scenic River Stewardship Council, OARS, local Eagle Scout Troops and Town Departments.

As a member of the stormwater group, Conservation staff participated in several technical meetings with staff from DPW- Engineering Division and the Board of Health Department to review and discuss the Town's Stormwater Management Program and overall compliance with the U.S Environmental Protection (EPA) National Pollutant Discharge Elimination System (NPDES) Small MS4 General Permit. This permit controls water pollution by regulating point sources that discharge pollutants (litter, sand, bacteria, chemicals such as fertilizer and herbicides from lawns, and oil and gas from cars) into water systems. The program is aimed at keeping stormwater, which drains to wetlands and waterbodies clean.

Beaver Management Program

The Conservation Department oversees the funds needed to manage the Town's Beaver Management Program. The Department oversees the beaver management consultant and works closely with the Board of Health, which is

authorized by the state to issue emergency beaver permits whenever human health, safety or property is threatened. To address serious public concerns associated with beaver-related flooding and to protect the Town's roadways and infrastructure, the Town retained the services of Beaver Solutions, LLC in the year 2000 to develop and implement a town-wide Municipal Beaver Management Program. Currently, approximately sixty (60) beaver problem/conflict sites are successfully managed by this Program. This is achieved by utilizing innovative water control devices, which are specially designed road Culvert Protective Fences or Flexible Pond Leveler pipes installed through beaver dams and designed to prevent detection from beavers. Approximately forty-five (46) of these problem/conflict sites are successfully managed non-lethally. The remaining fourteen (14) "No Damming Zones" (critical and highly sensitive zones – *e.g.*, commuter rail, flood prone areas, and older, densely developed sections of Town such as Nutting Lake) are managed with beaver trapping and dam breaching.

Land Management

A substantial portion of the Commission and staff's time involves working to protect Billerica's wetland resources (*i.e.*, vegetated wetlands, floodplain, waterways, riverfront, ponds, etc.) by coordinating and overseeing the regulatory permitting review of activities that may affect these sensitive resource areas. Another key function of the Commission is to protect and preserve the Town's natural resources by acquiring land for conservation, preservation and passive recreational purposes and acting as trustees in perpetuity of the Town's conservation land.

In Fiscal Year 2021 the Conservation Department and Commission continued proactive steps to open passive recreational opportunities for residents along the Concord River. Working with the Community Preservation Committee (CPC), funding was secured by a vote at Town Meeting for the planning, design, permitting and construction of the Katie Durand Memorial Park project proposed at 8 Carter Avenue. The Katie Durand Memorial Park will facilitate access to this stretch of the Concord River, which falls within the designated National Wild and Scenic River system. The park as designed will include handicap accessibility and site features such as picnic tables, interpretive environmental signage about the river and wildlife, a circular access road with parking and associated stormwater management, and a memorial area and pollinator garden honoring Katie Durand, former Conservation Assistant. In addition, funds have been approved for the survey and design of a canoe and kayak put-in along the Shawsheen River at the end of Sheridan Street. The proposed project will provide a small parking area, interpretative educational signage, and a boardwalk to facilitate access to this section of the river.

Outreach and Education

A goal of the Commission and Conservation Department is to continue to raise public awareness on the importance of protecting the Town's natural resources. Informational *wetlands protection* fliers and tri-fold brochures, which demonstrate the Town's commitment to resource land preservation, are available through the Conservation Department and Conservation Commission webpage. The color brochures include geographical information system (GIS) based maps that illustrate the location of Town recreational and conservation properties and provide information on walking trails, playground, open space, and other amenities, as well as interesting historical facts. The brochures serve as valuable tools for individuals and community organizations to become better acquainted with the recreational and natural areas of Town.

Respectfully submitted,

Isabel S. Tourkantonis, PWS

Director of Environmental Affairs

Billerica Conservation Department

Paul Hayes, Chair

JoAnne Giovino, Vice-Chair

Billerica Conservation Com

Fire Department

The Billerica Fire Department is pleased to submit our Annual Fire Department Report. Our primary objective is to keep Billerica a safe and well prepared community. Through continuous and current training in mitigation of fire and medical emergencies, hazardous conditions and rescues we are able to uphold and enhance our commitment to protect our residents and their property. We have been able to continue our efforts in prevention of fires and emergencies through our inspectional services as well as the S.A.F.E. (Student Awareness of Fire Education) and Senior S.A.F.E. (Senior Awareness of Fire Education) Programs. We have expanded our working relationships with the police, paramedics, and teachers to train middle school children in CPR. The COVID-19 pandemic has affected some of our program delivery, but our policies and procedures were adapted to continue the expected level of emergency response.

The Billerica Fire Department responded to 5735 incidents during the fiscal year 2021.

The responses break down as follows:

Response Type:	# of Responses
Animal Control	16
Assist Public	19
Bomb Threat	0

Box Alarm	214
Box Service	117
Brush Fire	51
Building Fire	36

Burning Complaint	84
Burn Permits Issued	759
Carbon Monoxide	109
Code Enforcement	6
Dumpster Fire	4
Electrical Problem	13
Elevator Emergency	5
Fire Alarm Activation	219
Fire Drill - Other	0
Fire Drill - School	25
Gas Leak	2
Hazardous Materials	23
House Lockout	25
Hydrant Inspection /Shoveling	42
Total Runs:	5735

Investigations	175
Medical Emergency Call	3228
Mutual Aid (Given or Received)	40
Odor of Gas	83
Public Relations	16
Rescue	3
Residential Alarm	115
Special Incident	12
Vehicle Accident	73
Vehicle Fire	19
Vehicle Lockout	118
Water Problem	31
Wires Arcing	53

TRAINING ACTIVITY DURING FISCAL YEAR 2021

During the year Billerica Firefighters received new or continuous training on the following topics:

Fire/Rescue Training

- Pump operations and Hydraulics review
- Hydrant Assist Valve review
- Mass Fire Academy – Recruit training
- Operation of master stream appliances
- Aerial operations
- Foam equipment & large diameter hose
- Brush fire equipment
- Tank Truck and Portable Pumps
- Ice/Water Rescue
- Ice Rescue Technician
- Boat refresher
- Vehicle Stabilization & Extrication
- Compressor SCBA filling review
- Portable Hydraulic Jaws
- Forcible Entry
- Rapid Intervention Team (RIT) refresher

- Ground Ladder review
- Portable Fire Extinguishers
- Building Construction
- Vacant Building Safety
- Rope Rescue
- Trench Rescue
- Water Supply

Medical Training

- NCCR curriculum
- CPR & Narcan Refresher
- Asthma Treatment
- Treatment & Transport of Obese
- Allergic Reaction Management
- Carbon Monoxide Poisoning
- Traumatic Brain Injury
- Narcotics Overdose

- 51A – Mandated Reporter
Driver Training

- First 15 Minutes of Roadway Safety
- Annual Driving Review

Officer and Administrative Training

- Incident Command System 100,200,700
- OSHA 30
- Quarterly Captains Meetings

Hazardous Materials Training

- HAZMAT Decon

Building Tours

- Tewksbury LNG Plant
- Verizon building
- School Fire & ALICE drills
- 164 Lexington Rd.

The Training Division was adversely affected by the COVID-19 pandemic beginning in March 2020 and throughout FY21. With the sporadic inability to put groups of members together and contact restricting policies, we relied on online training programs to refresh and maintain the skills for fire/rescue and medical training. The Training Division would like to thank all Billerica Town Departments, the School Department and the Billerica Emergency Management for their continued assistance. We would also like to thank and acknowledge Lantheus Medical Imaging, the Gutierrez Company and Holland Used Auto Parts for the use of their equipment and facilities in many of our training sessions.

GOALS FOR FISCAL YEAR 2021

- Continue information gathering for the preplanning program for pre-incident and hazard awareness.
- Continue to utilize the towns PeopleGIS software to centralize preplanning information.
- Expand collaboration with the Mass. Firefighting Academy to host additional training programs.
- Continue to seek grant money for training and equipment.
- Continue working with local industry on emergency training drills.
- Continue work with School and Police Departments on ALICE and Active Shooter Response programs.
- Implement new incident reporting software.

MAINTENANCE OF EQUIPMENT

The following equipment was inspected, calibrated, tested, repaired or replaced as part of the ongoing maintenance and testing program:

- Independent testing, certification and repair of all SCBA equipment
- Independent testing and repair of all ground ladders
- Independent testing, certification and repair of aerial ladder
- Independent certification and testing of the Cascade and Compressor System
- Maintain and repair all radio equipment
- Replace out of date radio equipment
- Independent Pump testing ,certification and repair of all pumping apparatus
- Testing, inspection and repair of all hose
- Replacement of damaged hose
- Maintain thermal imaging cameras
- Maintain and repair department boats and motors
- Calibration and repair of all gas meters and radiation detection equipment
- Maintain and repair gas powered saws and fans
- Maintain all computer and related equipment
- Replacement or repair of protective clothing per NFPA 1851 standard
- Inspection and records of protective clothing per NFPA 1851 standard

GRANTS RECEIVED

The following equipment and training was received with much appreciation through grants and/or donation to the Town:

- SAFE Grant (\$6,380.00)
- Senior SAFE Grant (\$2,880.00)

FIRE PREVENTION BUREAU

The fourth quarter of FY20 was challenging for the Fire Prevention Bureau. With the shutdown, we had reduction of Building Plans Reviews, Fire/Life Safety permits, and Certificates of Compliance (sale of home inspections). Annual Fire Code Permitting and required Fire Code Inspections suffered significant delays. The statistics reflect what happened in the Town.

PERMITS ISSUED

Open Air Burning	759	Cannon and Mortar	0
Aboveground/Underground tanks (new)	3	Carbon Monoxide Alarm Systems (comm.)	0
Building Radio Amplifier	5	Carbon Monoxide Alarm Systems (resid.)	233
Blasting	3	Residential Fire Alarm Systems	233
		Certificate of Compliance	705
		Fire Alarm Systems (comm.)	94

Fire Works	0	Suppression Systems	11 Tank
Flammable/Combustible Liquids	0	Removals	1
Aerosols	0	Haz-Mat Fire Code Permits	368
Storage of Explosives	0	Industrial Ovens	10
Hot work Operations	0	Black Powder	1
Ovens and Furnaces	0	Flammable Solids	0
Hot Work/Welding	71	Gases and Cryogenics	0
Propane (Install & Storage)	64 Oil	Dust Operations	0
Burner	104 Certificate	Haz-Mat processing	0
of Occupancy-Residential	50		
Certificate of Occupancy-Commercial	60		
Sprinkler System	101 Fire		
		PLANS REVIEW	
Building plans and Projects		271	
Planning and Zoning Board Projects		63	
Fire Protection/Detection Testing Reports Reviewed	171		

Total Permits Issued 2,876

RECORDS REQUEST

Public Records Requests and Insurance Notices	125
Continuing Education/Training Classes	80

INSPECTIONS/RE-INSPECTIONS

Annual/Quarterly	21	Certificate of Compliance-Smoke Detector	705
Aboveground/Underground Tanks	3	Certificate of Compliance-CO Detector	705 Black
Flammable/Combustible Storage	233	Powders	1
Fire Drills (Incl. Schools & Businesses)	45	Oil Burners	45
Alcohol/Life Safety	28	Propane	37
		Tank Removal	1

Fireworks/First Light Sweep	0	Suppression Systems	4
Industrial Ovens and Furnaces	34	Building Radio Amplifier	5
Hot Work 'Fixed Location'	53	Carbon Monoxide Alarm Systems	50
Fire Alarm Systems	38	Certificate of Occupancy-Commercial	50
Sprinkler Systems-Rough and Final	27	Certificate of Occupancy-Residential	60

INVESTIGATIONS

Fire Cause and Origin	36
Code Enforcement	51
Red Tags	39
Car Fire (FP-33)	19

Fees Collected \$56,900.00

S.A.F.E (STUDENT AWARENESS of FIRE EDUCATION)

The following are the activities and accomplishments of the Student S.A.F.E. (Student Awareness of Fire Education) program for 2021. This program has been severely affected by COVID-19 again this year.

The S.A.F.E. program continued to suspend its' CPR/AED program for all 6th grade students in town.

Middlesex Sheriff Department Youth Public Safety Camp was cancelled for another year due to the pandemic.

Fire Prevention Week- We hosted our annual Fire Department Open House during Fire Prevention Week. Attendance was up from the previous year. Firefighters distributed safety flyers, activity books and more. It was an opportunity for firefighters to discuss fire prevention topics and answer questions from the public. It's an important part of our community risk-reduction mission.

SENIOR S.A.F.E. (SENIOR AWARENESS of FIRE EDUCATION)

Senior SAFE in person actions were minimized during FY21 due to the pandemic and safety considerations to our seniors. Coordinator Captain Bill Paskiewicz in conjunction with the Billerica Council on Aging slowly began to resume in home visits in the Spring of 2021 and hope to regain momentum in the program during the next year. In addition to checking and installing smoke detectors, Captain Paskiewicz spoke to seniors on the following subjects:

- Guidelines from the Department of Fire Services Curriculum Guide Book
- NFPA 'Remember When'
- 'Come Grow Old with Me'
- 'Keep Warm, Keep Safe' program
- Holiday Cooking program
- Smoke alarm testing
- Carbon monoxide alarm testing
- Smoking dangers
- Cooking safety and burns
- Electrical hazards
- Home heating hazards
- Candle safety
- Trip hazards
- Oxygen safety

During home visits elderly residents were taught safety in their homes. Also during visits, alarms were tested and checked for expiration dates and replaced if necessary. Homes were also checked to be sure that house numbers were properly visible for incident response. During emergency response, department personnel identify needs and communicate with the Council on Aging liaison to ensure that seniors are offered all available services, including free smoke detectors.

Members installed smoke and carbon monoxide detectors and changed batteries where necessary. This was possible with units donated by the American Red Cross and through donations from Lantheus Medical Imaging and O'Connor Hardware. COVID-19 impacted the ability to get into the homes of seniors, but emergency visits and installations were not affected.

The Billerica Fire Department would like to thank all other Town Departments and Town Officials for their help and cooperation throughout the year.

Respectfully submitted,
Robert Cole, Fire Chief

Historical Commission

Since the Commission was remiss and did not file an annual report for FY 2019/2020, the Commission's activities for the past two fiscal years are herein summarized.

Local Inventory: The inventory forms the **Sarah Fletcher Murphy house** at 372 Boston Road and the **Edward O. Anderson house** at 7 Brentham Road were completed and accepted by MHC. Continuation sheets were filed for the inventoried properties located at 11 Concord Road and 14-16 Andover Road. The sheets were accepted by MHC and will be included with the inventory forms formerly filed for those buildings. Continuation sheets provide updated information on the history of a property previously inventoried. Although the Smallpox Cemetery situated along the MBTA Tracks between High and Pond Streets had been previously accepted a GPS listing was obtained to complete the inventory form. Future consideration for additions to the Town's local inventory of historic properties are being considered.

Circa Signs: Although the Commission has limited funds devoted to this project three new Circa Signs were installed one on the **Stephen Barrett house** at 201 Pollard Street, another on the **Edward O. Anderson house** at 7 Brentham Road, and the third on the **Sarah Fletcher Murphy house** at 372 Boston Road. A replacement sign was affixed to the **Rufus K. Underhill house** at 67 Andover Road.

Community Preservation Committee (CPC): Travis Brown was chosen unanimously as the Commission representative to the CPC. Preservation Restrictions were signed in relation to CPA funds granted to the Billerica Historical Society for improvements to the organization's headquarters, the Clara Sexton house and to the First Parish Church for improvements to the bell tower, clock, and steeple. Notarized signatures of the Commission members were required for both projects. This occurred during the height of the pandemic which complicated the process. A letter of support was also written in conjunction to the request for preservation material made by Kathy Meagher, Local History Room Librarian. The materials are intended to be used to properly preserve the items currently housed in the Local History Room.

Demolition Delay By-law: An application was filed for the demolition of the barn associated with the inventoried **Charles Henry Hill house** at 332 Concord Road. Although the house was demolished after a tragic fire in 2005, the barn remained extant. After reviewing the inventory form, it was determined that the barn was not included on the local inventory and no action on the Commission's part was necessary. A permit was filed for the demolition of the **Oliver Farmer house** located on Boston Road just north of the Billerica Center Historic District boundary. Thankfully the application was withdrawn. An application was filed for the demolition of the **Otis Lincoln house** at 120 Rangeway Road. The Commission members determined the house was of historic import and a demolition delay hearing was held in May of 2021. After the hearing a six-month demolition delay was unanimously approved in hopes that the house could be saved and that the owner of the property would explore an avenue which would lead to the house's salvation. The six-month delay ends on November 10, 2021. It is unfortunate that the **Peter Hill house** on Concord Road was never inventoried and may be soon razed. The local inventoried **Col. Ranlett house** was razed without the appropriate hearings required by the Demolition Delay By-law. It appears that this occurred as a result of a scrivener's error, which is unfortunate. The developer did promise to place a plaque on the property recognizing the site of the Col. Ranlett house. Apparently, there

were other violations of Town requirements at the location and construction on the property has been temporarily stopped. After this unfortunate incident, the Commission members suggested that annually the Building Department should secure a list of the properties in Billerica that are on the Town's Local Inventory of Historic Properties directly from MHC. The MACRIS inventory maintained by MHC provides all the latest updates and is reviewed constantly for errors and omissions.

Signage: The damaged municipal designated sign at the corner of Mount Pleasant Street and Billerica Avenue was replaced as well as was the missing Middlesex Canal Crossing sign on Rogers Street. A replacement for the municipal Billerica and Bedford railroad sign at the intersection of Lexington Road and Boston Road is currently being arranged.

Wayside Markers and Plaques Inventory: The Commission is in the process of preparing a computer driven map designating the location of Billerica's many wayside markers and plaques. This project is ongoing and will serve as the inventory when complete.

Community Grant Application: The Commission applied for a Community Grant to maintain the High Street MCC marker site. In 2016 the area around the marker was restored with grant funds from EMD Serono. At the time it was anticipated the MCA and the MCC would tend to the care of the small, so called, park. Unfortunately, this did not occur. The grant failed to attract any interest and was rejected. Recently the DPW with approval from Mr. Curran, the Town Manager, has helped out with the maintenance of the site. Their assistance is greatly appreciated by the Commission members.

Each member of the Commission has assigned responsibilities. Alec Ingraham is the Chair and handles research on historic properties, inventory forms and Circa Signs, Mary Leach functions as the secretary posting the meeting and overseeing the Commission's website, Travis Brown is the liaison with the Building Department and monitors demolition requests which require the Commission's review, and Matt Hrono supervises the local historic wayside markers and plaques computer driven map. Andy Boisvert is a new member and is just learning the responsibilities of the Commission.

Respectfully submitted,

Andrew Boisvert
Travis Brown
Mathew Hrono
Alec Ingraham, Chair
Mary Leach

Middlesex Canal Commission

Members: Charles Anderson, Debra Fox, Richard Hawes, and Alec Ingraham

The Billerica Section continued to meet in the Reardon Room of the Middlesex Canal Museum at the Faulkner Mill, 71 Faulkner Street, North Billerica. Those dates were July 8, 2020, September 9, 2020, November 11, 2020, January 13, 2021, March 10, 2021, and May 12, 2021.

Highlights of the Year

1. Members continued to follow COVID protocols for meetings.
2. Members worked to keep Lowell Street and High Street (marker site) mowed and maintained. Flowers were donated by the Billerica Beautification Committee for the planters on Lowell Street.
3. July, 2020 was marked by the loss of Jean Potter, Middlesex Canal Association longtime volunteer at the Canal Museum.
4. Continued sign maintenance was carried out by Alec Ingraham and former Middlesex Canal Commission: Billerica Section member, Andrew Bowen.
5. Members monitored the progress of the work on the future Middlesex Canal Museum at 2 Old Elm Street.
6. The last Cub Scout tour of the Canal Museum took place in March with scouts from the Faulkner Kindergarten and was conducted by Debra Fox.
7. All members whose term expired on June 30, 2021 reapplied and were re-appointed by the Select Board.
8. Charles Anderson resigned as Chairman of the Billerica Section due to ill health. Richard Hawes replaced him as Billerica Section representative to the Middlesex Canal Commission.

Respectfully submitted,

Debra Fox, Secretary

Mosquito Control

The Central Massachusetts Mosquito Control Project (CMMCP) currently provides its services to 44 cities and towns throughout Middlesex and Worcester Counties. The Project's headquarters is located at 111 Otis St., Northborough, MA. Project personnel are available to meet with any town board or resident to discuss the Project's procedures and activities. Our phone number is (508) 393-3055.

CMMCP practices Integrated Mosquito Management (IMM), blending state of the art methods and techniques with expertise, experience, and scientific research to provide our member communities with modern, environmentally sound, cost effective mosquito control. IMM encourages the use of non-chemical means to accomplish the goal of mosquito reduction.

The Mosquito Awareness program which we offer to elementary schools in our district is very popular. Project staff meets with students and teachers to discuss mosquito biology, mosquito habitat, and control procedures. Much of the presentation is directed towards what the children and their families can do to prevent mosquitoes from developing around their homes. Slides, videos, handouts, and coloring books help to make this an interesting program.

As part of our effort to reduce the need for pesticides, our first line of control is our ditch maintenance program. By cleaning clogged and overgrown waterways, mosquito breeding can be reduced, drainage areas are returned to historical conditions, and water quality is improved. Source reduction, the elimination or reduction of a mosquito breeding source (i.e. water-holding containers), is practiced by alerting residents and business owners about potential mosquito producing sites they have created. They are informed about basic mosquito biology, and the need to eliminate these man-made breeding sources. We also now have a tire collection program that removed these larval habitats from the environment and are then brought to a facility for recycling.

Bacterial larval control with Bti (*Bacillus thuringiensis*) is used to treat areas where mosquito larvae are found and source reduction or wetland restoration is not feasible. We have an extensive database of known breeding sites, and we encourage the public to notify us of any areas they suspect could breed mosquitoes. Our field crews will investigate all requests and treat the area only if pre-determined thresholds of mosquito larvae are exceeded. Bti is a naturally occurring product, and is exclusive to mosquito larvae, preserving other aquatic organisms in their habitat. We treated 665 acres of wetland by helicopter with supplemental funding from the Board of Health in 2021, with an average reduction of larvae of 74.77% in treated areas.

Our goal is to handle all mosquito problems with wetlands restoration, source reduction or larval control, but we recognize that there are times when adult mosquito spraying is the only viable solution. In such cases residential areas are treated with pickup truck mounted sprayers. Applications are site-specific and are determined by weather, type of area and mosquito population levels. These applications are initiated **only by request** of town residents. A phone notification system has been installed to announce potential spray areas for member cities and towns on their scheduled evening, and this information is listed on our website.

The project's surveillance program monitors adult mosquito and larval population density, and is the backbone for prescribing various control techniques. We have expanded the adult collection program to monitor for West Nile Virus in our service area. Specialized traps are used as a mobile force for viral

monitoring, and are placed in member towns on a weekly basis for routine sampling. If a WNV or EEE hot spot is identified, surveillance is intensified to sample mosquitoes and these collections are sent in to the Mass. Dept. of Public Health for testing.

We are now running a research and efficacy department which checks for efficacy of our products and techniques, and to research in new or different areas of mosquito control. GIS has been added to our operations to allow better data collection and analysis.

The Project has a website at **www.cmmcp.org** which has extensive information on our program, products we use, and mosquito control procedures. Requests for service can be made through the website, as well as pesticide exclusions.

Respectfully submitted,

Timothy Deschamps

Executive Director

Timothy E. McGlinchy

Director of Operations

Police

POLICE DEPARTMENT

The Billerica Police Department is pleased to submit this Annual Report for the fiscal year 2022. As the town has weathered its second year in the midst of a Pandemic, we have adjusted operations to accommodate and meet new challenges and demands. While still serving the Town of Billerica with traditional police services, to include responding to an ever-expanding array of calls for service, we have slowly ramped up previously impacted services that were placed on hold due to changing protocols related to communicable disease. Divisions such as Criminal Investigations, Traffic Department and our School Resource Officer program are back in full operation after a significant hiatus. We have also resumed the use of our co-response model of responding to select crisis calls involving Emotionally Disturbed Persons with a certified Crisis Clinician as well as in-person follow-up when co-response is not an option. Other ancillary services have also been resumed, including Firearms Licensing and Fingerprint Card/background support. In addition, we have resumed in-person training of our staff, expanding on the use of scenario-based training methods to build increased officer competence while complying with new policy and procedure requirements implemented in July 2021 following landmark Police Reform legislation.

As traffic safety has continued to be a priority of concern for residents, we have continued our participation in the Nationwide Click it or Ticket campaign as well as the You Drink You Drive You Lose program through support from the Governor's Highway Safety Bureau. In addition, we have continued to conduct directed enforcement of targeted areas where pedestrian safety has been a focused concern, including crosswalks and school zones.

We continue to partner and work with other government and private organizations for the improvement of our community. Our department continues to work with our Faith Community, Food Pantry, Health and Building Department, Sheriff's Office as well as our regional, state and federal partners such as NEMLEC, our Middlesex District Attorney, State Police and FBI. Some of these partnerships have included bringing community access to emergency housing/shelter, food, clothing, domestic violence support, vandalism clean up, and search and rescue support.

I would also like to thank the Town Manager and Board of Selectman for my recent appointment to Police Chief for the Town of Billerica. I have been with the department for close to twenty-five years and have worked closely with former Chief Daniel Rosa and other town department heads for many years. Like my predecessor, I look forward to expanding our community engagement with all who live and work within the Town. A major focus of my time as Chief will be to better display the exemplary duty and professionalism of our personnel here at Billerica PD through community partnerships. From our highly trained and committed sworn personnel, professional certified dispatchers, support and clerical staff, to our life saving

Advanced Life Support Paramedics, the men and women of the Billerica Police Department are committed to serving the community with the highest degree of integrity and professionalism.

POLICE DEPARTMENT

Funds Collected

Administrative Fees	\$169,020.40
Handicap Fines	\$2,850
Mass DOT	\$87,404.25
Parking Fines	\$1,520
Solicitor	\$1,175
By-Law Violations	\$370
Firearms Licensing	\$15,700
Animal Control Fines	-
Late Fee	\$145

Respectfully Submitted,

Roy W. Frost

Chief

Shawsheen Tech

The Shawsheen Valley Regional Vocational Technical School District (SVTHSD) is pleased to submit its 2021 Annual Report to the citizens of Bedford, Billerica, Burlington, Tewksbury, and Wilmington. Located on Cook Street in Billerica next to the towns of Burlington and Wilmington, the school celebrated its 51th anniversary this year, perpetuating the highest quality in vocational technical education to area youth and residents.

The representatives of the 10-member Regional School Committee that governs the District are: Nancy Asbedian and Brian O'Donnell from Bedford; Ronald Fusco, Vice Chair and Taryn Gillis, Treasurer from Billerica; Christine Kim and Kent Moffatt, Secretary, from Burlington; Patricia W. Meuse, Chair, and Cheryl Bartolone from Tewksbury; and Robert G. Peterson and Charles Fiore from Wilmington. Bradford Jackson began his tenure as Superintendent/Director of the District in July of 2020.

Shawsheen Valley Technical High School (SVTHS) is one of twenty-six (26) regional vocational technical school districts in Massachusetts. One thousand three hundred and eighteen (1,318) high school students were reported to the Department of Elementary and Secondary education (DESE) in SVTHS's high school foundation enrollment in October of 2021, and more than 400 adults participated in the school's various adult and continuing education courses.

The SVTHS faculty is an exceptional group of talented academic and vocational-technical educators who are highly qualified to teach in their respective disciplines and occupational areas. SVTHS employs one hundred forty-five (145) full-time teachers as well as thirteen (13) paraprofessionals. Of those full-time teachers, ten (10) are department chairs and eighteen (18) are lead teachers. All SVTHS teachers exhibit the character, health, personality, and professional competency worthy of serving the needs of District students.

- Post-Secondary Preparedness & Student Achievements

2021 was a challenging year for students and staff due to the issues associated with the COVID-19 pandemic. School schedules and routines were completely transformed to accommodate social distancing requirements and remote learning became an essential component of keeping students engaged with their learning. We are proud of the incredible resilience, flexibility, and adaptability that all members of the Shawsheen community exhibited during this time, especially our students. In the face of the many changes and challenges that occurred this year, the achievements of our students feel more important and impressive than ever.

Post-Secondary Plans of Graduates. In June of 2021, SVTHS graduated 313 seniors. Fifty-four percent (54%) of the graduates planned to attend a two- or four-year college or other post-secondary schooling in the fall. Thirty-five percent (35%) of the graduates intended to continue working in their trade or another pathway, and four percent (4%) of graduating seniors planned to enlist in the military.

Scholarships and Awards. One hundred fifty-four (154) scholarships were distributed to seventy-six (76) students in the Class of 2021 totaling \$144,300. Twenty-three (23) members of the Class of 2021 were members of the National Honor Society (NHS) and the National Vocational Technical Honor Society.

Cooperative Education Program. At the conclusion of the 2021 school year, fifty-eight percent (58%) of eligible seniors participated in the district's Cooperative Education Program (Co-Op). Students were employed in positions related to their Chapter 74 vocational-technical programs by 154 local employers.

Student Mental Health and Wellness. At SVTHS we recognize the importance of supporting students' mental health needs. In 2019, we deepened our commitment to this belief by adding a School Adjustment Counselor position to our staff. In 2020, we further increased supports with the addition of a second School Psychologist position and a second School Nurse (RN) position. Since then, students' mental health needs have continued to increase due to the COVID-19 pandemic. In 2021, we added a second School Adjustment Counselor position and re-structured roles in the Guidance office to make an additional staff member available to provide services as a School Adjustment Counselor fifty-percent (50%) of the time.

High School Completion. The high school completion portion of the accountability report consists of three measures: the four-year cohort graduation rate; five-year graduation rate; and dropout rate. SVTHS continued to exhibit some of the highest graduation rates in the Commonwealth. The Department of Elementary and Secondary Education factors in 2020 as the most recent year for the four-year cohort graduation rate and 2019 as the most recent year for the five-year graduation rate as follows: four-year cohort graduation rate: 97.3%; five-year graduation rate: 98.7%

SVTHS continued to exhibit one of the lowest dropout rates in the Commonwealth. The Department of Elementary and Secondary Education factors in 2020 as the most recent year for the annual dropout rate as follows: annual dropout rate: 0.2%.

Concurrent Enrollment. SVTHS further expanded student access to concurrent enrollment courses at the start of the 2021-2022 school year with the addition of two additional courses: Calculus I for Science and Engineering; and Intro to Chemistry. This is in addition to three concurrent courses already offered: English Composition I; Statistics; and American Government. Students enrolled in these courses are able to earn college credit from Middlesex Community College before they graduate from high school and those credits can be transferred to other institutions, depending on where students choose to enroll in post-secondary study.

Adams Scholars. The Department of Elementary and Secondary Education recognized the achievements of Shawsheen's senior class on the MCAS exams by naming eighty-five (85) recipients of the John and Abigail Adams Scholarship Award.

Support Services

The SVTHS Support Services Department provides IEP services for students with disabilities for approximately 365 students comprising nearly twenty-seven percent (27%) of our student body.

The most frequently occurring area of need is in the category of Specific Learning Disability, indicating that a history of academic difficulty existed prior to students' arrival at Shawsheen. Nevertheless, SVTHS has a strong graduation rate of students with disabilities with one hundred percent (100%) of seniors graduating in June 2021. This compares to a state average of approximately seventy-three percent (73%) for students with disabilities.

Since the fall of 2020, Shawsheen was approved to be a school-wide Title 1 school. All students, including students with disabilities, have the opportunity to receive targeted instruction and intervention in core subject areas.

This year, ninety-four percent (94%) of freshman students with disabilities passed their 9th grade classes. For upperclassmen in grades 11 and 12, thirty-two percent (32%) of students with disabilities completed advanced courses. All students with disabilities in the class of 2021 have met graduation competency in Math and English as outlined by the state. These results occurred due to a full team-effort on the part of Academic, Vocational/Technical, and Support Services staff to address the needs of our population of students with disabilities. Students who initially experience difficulty passing one or more of the MCAS exams eventually attain graduation status through the district's MCAS remediation programs and re-taking the examination.

Students with disabilities continue to have full access and participation in cooperative education, as well as all extra-curricular activities such as sports teams, SkillsUSA, and after school clubs. Parents of special education students at SVTHS are highly involved in the IEP Team process, with parent attendance at IEP team meetings approaching one-hundred percent (100%). Every effort is made to accommodate parent requests for IEP Team meeting dates to ensure their participation. Prior to the IEP Team meeting, parents provide input for current concerns regarding their student's educational progress. Responses are documented in the IEP and an IEP proposal is created at the team meeting allowing parents to fully participate in the IEP development and understand all the elements of the IEP.

Educational Technology

The Educational Technology Department focuses on the operational and educational functions for the District. The ongoing Covid-19 pandemic created many challenges for Ed Tech. During the 2021 school year, the District transitioned to remote learning for academic weeks only, resulting in the Department mobilizing quickly to deliver instruction to students. To ensure a successful transition to on-line learning, the Ed Tech Department developed a new process to distribute and collect laptops, expanded on-line resources to support virtual learning and provided just-in-time professional development and remote technical support for students and staff.

Community outreach for current and prospective students and parents continued by providing virtual informational sessions using Microsoft Teams Live Event. These virtual events were recorded and posted to Shawsheen's website for easily accessibility. Teachers embraced digital learning and developed a deeper understanding of how digital tools can support all learners. A Digital Learning Professional Development committee was formed and recommendations for potential professional development were created to increase the teachers' proficiency levels for the 2022 school year.

Community Engagement

Adult Evening School. The Adult Evening School offers a variety of vocational/technical courses for adults interested in expanding their knowledge and skills for the 21st century workplace. Programs include adult education enrichment programs, certificate-based and licensing trade programs, and workforce development initiatives; all are designed to help people develop or improve job training skills and enhance the quality of life for residents in our communities. Programs were scaled back severely in FY21 due to the pandemic, but most of the technical licensing courses remained available through virtual platforms like Zoom. Programming is offered during two semesters from September to June, and classes typically include classes in business and computer applications, culinary arts, practical home repair, photography, metal working, and more. Program catalogs are sent home to residents in Shawsheen's school district, which also serves as a marketing publication for the school. For registration materials or general information, interested residents should contact the Director of Community Services and Workforce Development.

MassHire and Workforce Development Training. Shawsheen Valley Technical High School continues to explore and expand its collaboration with our local workforce and career development agencies to support the statewide initiatives to fuel job growth and address employer demand for talent, and to continue to strengthen the Massachusetts economy. This past year, Shawsheen Tech held its third innovative Advanced Manufacturing Training Program in the field of welding, for unemployed and underemployed adults in the evening. This was a response to an emerging skill gap challenge identified in the district's regional labor market blueprint. Programs will continue to be developed this current school year, in accordance with federal and state funding initiatives to upskill the workforce that has changed due to the pandemic. For registration materials or general information, interested residents should contact the Director of Community Services and Workforce Development.

Billerica House of Correction. Shawsheen Valley Technical High School continues to collaborate with the Middlesex Sheriff's Office (MSO) and the Billerica House of Correction (BHOC), through the Director of Community Services & Workforce Development. With the established Culinary Arts program, we are always looking to explore and expand our educational partnerships to incarcerated participants and returning citizens to assist in providing technical training and skill development. This program did not run in 2021 due to the pandemic.

School of Practical Nursing. The Shawsheen Valley School of Practical Nursing remained live during the school year 2020-2021. We graduated 15 students in June 2021. All fifteen completed the 540 live clinical hours required to graduate. Close to 900 graduates have entered the workforce as Licensed Practical Nurses since the program graduated its first class in 1995. All graduates of the class of 2020 have passed NCLEX-PN and are employed. Residents interested in applying should contact the Coordinator of the School of Practical Nursing or visit www.shawsheenpracticalnursing.com.

Summer at Shawsheen. SVTHS hosted its 6th annual "Summer at Shawsheen" program amid the obstacles imposed by the Covid-19 pandemic. This program provided students in our member towns with a variety of summer learning opportunities, sports-based clinics, STEM-based classes,

vocational-technical courses, academic and test-prep classes, and enrichment courses for students entering grades 5-12. Individuals seeking summer program information should contact the Summer Programming Coordinator or the Director of Community Services and Workforce Development.

Project Explore. Due to the pandemic, Project Explore was not offered in 2021. The program is scheduled to run January-March 2022. Project Explore is a free, quality after-school program offered to 7th grade students who reside in the Shawsheen Valley Technical High School District. It provides a great opportunity for students to visit Shawsheen and explore 6 of the 20 different vocational-technical programs. Each sending town is assigned a three-week session of programming, and busing is provided from the middle schools to Shawsheen, and then to a few local stops at the conclusion of the program. Postcards have been mailed to each 7th grade in-district student, and middle schools have been given promotional material. Registration is online at shawsheentech.org. This is a pivotal recruitment opportunity for Shawsheen, while providing career exploration at an earlier age. For registration materials or general information, interested residents should contact the Director of Community Services and Workforce Development.

Aquatics and Swim Program. Our recently renovated Kenneth L. Buffum Pool was closed for most programs such as family swim, lap swim, water aerobics, and swim lessons for most of the year due to the global pandemic. The facility has been cleaned, disinfected, and is adhering to all state and local guidelines. As a result, our Summer and Fall swim lessons programs have returned and both sessions were completely sold out. This fall our Community Lap Swim has re-opened with hopes that Family Swim will resume after the New Year. Individuals seeking swim program information should contact the Aquatics Director at jtildsley@shawtech.org.

Athletics

Athletic Achievements. Student athletes experienced impressive success during the COVID 19-influenced 2021 calendar year which included for the first time ever, four separate seasons: Winter, Fall 2, Spring and this past Fall season. League championships were held only for the Winter, Fall 2 and Spring seasons, which were won by Girls Basketball, Wrestling, Baseball and Tennis. This past Fall season, CAC League titles were won by Golf and Football Cheerleading. Football Cheerleading also won the State Vocational Championship. The success of the athletic program resulted in being awarded the Boston Globe's prestigious Walter Markham award; which is given to the vocational school with the highest combined winning percentage of all the Varsity Boys, Girls and Co-ed sports. Dozens of student athletes were honored with league All Star recognition.

The pinnacle of Shawsheen's athletic year was the ceremony dedicating our gymnasium in honor of our Hall of Fame Wrestling coach Mark S. "Dunnie" Donovan. The dedication is a tribute to the decades of leadership that impacted the lives of thousands of student-athletes.

Vocational/Technical Programs

Construction Cluster

School year 2021 for the four construction programs – Carpentry, Electricity, Masonry & Tile Setting and Plumbing – were very limited in sharing partnerships or creating arrangements for construction projects throughout the communities. The COVID-19 pandemic had an extremely negative impact and social distancing guidelines deprived our students of that valuable experience of doing relevant project-based community jobs. The Construction Cluster was able to complete the following in-house school projects that provided opportunities for collaboration and additional training and development not found in a classroom. A junior Masonry student won a gold medal at the SKillsUSA State competition.

- Patio Project Outside of Cafeteria – Masonry & Tile Setting
- Installation of Drinking Fountains with Bottle Filler – Plumbing
- Stadium Toilet Facility Project – Plumbing & Carpentry
- Stone Zoo's annual ZooLights Winter Wonderland project – Carpentry built a mini-display house in collaboration with Design & Visual Communications

Manufacturing Cluster

Electronics/Engineering Technology. The freshmen draw was an incredible response to the rebranding of the program through the integration of the Chapter 74 Electronics and Engineering frameworks. The program's numbers exploded with final placement first choices of 21, second choices of 14 and third choices of 17. With the new instructional strategies, projects, and attention to detail, the program became one of the most competitive shops-of-choice. Currently there are 16 sophomores enrolled with a maximum capacity for 18. The equipment, instruments, tools, curriculum, and consumables received through the Massachusetts Skills Capital Grant will provide quality engineering education to students for years to come. Expansion will continue, seeking relevant and rigorous curriculum on topics such as automation, robotics, mechanics, and electronics to keep up with industry trends. Presently another grant is being written seeking additional funds through MSCG, requesting Industry 4.0 equipment. Many of the senior students are participating in the Cooperative Education program.

Drafting. Even during the COVID-19 pandemic, all seniors students participated in the cooperative education program. These experiences were quite a testament to the students' ability to find work and add value to a variety of companies throughout our district. Companies ranged from Analog Devices to smaller design and build companies like Watson Brothers Architectural. The junior Drafting students worked collaboratively with the Metal Fabrication & Joining Technologies students and the Advanced Manufacturing Technology students to create and build a specially designed hockey sled for a young man with disabilities. This type of design and build project is an example of students collaborating with other programs while incorporating relevant project-based learning. This project also culminated with meeting the young man and his family at the local Ristuccia Ice Rink to try out the newly designed hockey sleds. In the yearly SkillsUSA competition, an Automated Manufacturing team collected a gold medal at the District's Skills competition and a silver medal at the State Skills competition. The team consisted of a Drafting student and two Advanced Manufacturing Technology students.

Advanced Manufacturing Technology. General Industry OSHA 10-Hour training and Manufacturing Advancement Center Workforce Innovation Collaborative (MACWIC) Level 1

certifications continue to be achieved by the upper classmen. Eighty-five percent (85%) of seniors are participating in the cooperative education program. Collaboration with other programs has expanded, benefiting students' learning in development of higher-level thinking, oral communication, and self-management. A portable coordinate measuring machine (CMM) has been approved for purchase. In the yearly SkillsUSA competition, an Automated Manufacturing team collected a gold medal at the Districts Skills competition and a silver medal at the State Skills competition. The team consisted of a Drafting student and two Advanced Manufacturing Technology students.

Transportation / Product Development Cluster

Automotive Collision Repair and Refinishing. The I-Car curriculum continues to provide invaluable instruction curriculum and materials that engage project-based activities that students embrace. Many of these activities meet the rapidly changing needs of the Auto-Collision industry. The program currently has one hundred percent (100%) of the seniors participating in the cooperative education program. Students continue to use online I-CAR training for industry recognized training and certificates, as well as SP2 for industry safety training. A strong partnership with Jack's Used Auto Parts has been beneficial, allowing students to disassemble vehicles of various makes and models.

Automotive Technology. Following safety guidelines and protocols the upperclassmen continued to work on faculty and customer vehicles to replicate real-world working conditions during the COVID-19 pandemic. All junior students obtained their OSHA 10-hour card as well as being prepared for the Environmental Protection Agency (EPA) 609 certification and ASE entry-level certifications. Teachers started the task of renewing the shop's Automotive Service Excellence (ASE) certification. During this challenging time of COVID-19, the program continued to attract a strong freshman enrollment. By offering a comprehensive curriculum of engine repair, chassis, electrical, brake systems, steering, and suspension we have prepared a high percentage of the seniors to participate in the cooperative education program at local dealerships and independent repair shops. In the SkillsUSA districts students won a gold and bronze medal in the Automotive Service Technology competition.

Culinary Arts/Hospitality Management. Fifty years and counting, the menus might have changed but the Culinary Arts program continues to serve its staff and the community with healthy nutritious meals and luscious dessert options. Due to COVID-19, the Rams' Dining Room was closed to the public, but the program adapted to the times creating a "curb-side pickup" option. This arrangement promoted community service and a true caring for our neighbors as well as restoring a fully operational kitchen environment for the students to refine or perfect their skills. One positive element of COVID-19 was the rise in job opportunities within the industry for the students. The participation in the cooperative education experience has never been higher.

Metal Fabrication & Joining Technologies. COVID-19 provided the opportunity for teachers and students to navigate the adversity of remote learning, utilizing online platforms of ToolingU, an online curriculum that partnered with Lincoln Electric in an effort to keep students engaged with state-of-the-art industry standards. To accommodate social distancing and maintain a safe environment, the workstations were altered and equipment was realigned. These modifications

created surroundings that were conducive to allowing full exploratory cycles, in turn welcoming eighteen permanent freshmen to the program. With various raw materials students have designed and built numerous projects for the community and the district. Projects included structures and decorations for the Stone Zoo's annual ZooLights Winter Wonderland, railings for the new cafeteria patio, and multiple repairs to several on-campus equipment and parts. The Program's new addition of an engine driven welder/generator will make future projects on campus much more relatable to real world applications. A Metal Fabrication senior took home a Gold Medal in the SkillsUSA districts conference for the Welding Sculpture competition.

Heating, Ventilation, Air Conditioning & Refrigeration. Additional commercial and residential projects have been added to the curriculum. Students built and installed a commercial water tower chiller that now allows multiple light commercial cooling systems to be installed and used for troubleshooting H₂O and heating coil applications. Keeping up with industry innovations, several state-of-the-art mini-ductless splits, integrated controls, and the latest technology have been implemented into different project-based activities. Ninety-three percent of the senior class is participating in the cooperative education program. Workplace Safety Programs are still paramount as students continue to achieve their safety credentials that include EPA Section 608 Technician, Construction OSHA 10-hour, and Hot Work certifications.

Arts, Communication and Technology Cluster

Design and Visual Communications. A high percentage of seniors continue their education at post-secondary institutions. Six students successfully completed a dual enrollment program at Montserrat College of Art earning three college credits. For the second year in a row a Design and Visual Communications student was the valedictorian, representing the class of 2021. The Design and Visual Communications Management & Entrepreneurship initiative continues to expand and offer self-employment opportunities to students who do not wish to go onto post-secondary art and design schools. This curriculum provides project-based activities for students to learn how to start their own trade-related business after graduation. Implementation of these lessons integrates a hybrid learning environment to support all students.

Graphic Communications. New equipment with the latest technology continues to be purchased to support the expansion of the program's curriculum and project-based activities. A Roland TrueVis SG2 printer/cutter and a Rollstoller flatbed applicator are the latest equipment to broaden students' skills sets as well helping beautify the school's environment with the final products. Students exhibited a strong showing in SkillsUSA where they received four silver medals and one bronze in the state competition, as well as a gold medal in Employment Application. Graphics was instrumental in designing, creating, and installing most of the COVID-19 safety printable signs and posters.

Information Support Services and Networking / Programming and Web Development. In keeping up with industry trends and recommendations from the Craft Advisory Board, the Program has updated and revised curriculum. Some of the development and growth of lessons included more programming in Java and C+ (for game and program development) Microsoft's Power BI, and cloud-based networking. All of these tasks have been augmented in multiple project-based activities. At the SkillsUSA State competition, an ISSN student won the gold medal, allowing him

to compete in the Nationals competition where he placed 9th in the country! Because of increased enrollments over the last four years, plans are in the development phase to expand the program's footprint. The update will include furniture and equipment to maintain the high standards that the students have come to expect and have also earned.

Business Technology/Marketing. The craft advisory board's feedback and current trends have reinforced the skills and technology being implemented within the program. Through project-based activities and the integration of instructional strategies, students can acquire certifications in Microsoft Office applications including Excel, PowerPoint, Word and Outlook. Advanced curriculum accreditations include Google Advertising, Microsoft Access, and Intuit QuickBooks Accounting. Seven students were invited to compete in the Microsoft Office Specialist U.S. National Championship – invitations are extended to students earning the top scores in Massachusetts. Our program has been experiencing much success with the GMetrix learning platform; students are able to learn, practice and certify in industry-recognized software, realizing success at a faster pace with higher score results. Ninety-two percent (92%) of the seniors are participating in the cooperative education program. As is always the case in the dynamic world of business, the program has been adapting and evolving with technology.

Health Services

Cosmetology. By the spring of 2021, Governor Baker's office allowed customers to return to salons. While implementing COVID-19 safety guidelines and protocols, the Cosmetology program was able to go back to work on live clients, an essential component of the curriculum. Special considerations were permitted from the Massachusetts Board of Cosmetology and Barbering to allow students to accumulate hours toward their Cosmetology licensure. Thirteen seniors graduated with a Massachusetts Class 1 Cosmetology license by the end of the school year and five are successfully participating in the cooperative education program at local salons. Eleven of the fifteen junior students have completed their 1000-hour training and will begin in the fall prepping for the State Board Exam. Certifications continue to be acquired by the upperclassmen, one hundred percent (100%) have completed the Covid-19 Barbicide and Milady Infection Control certificates for the industry. Plans to enlarge the footprint, update equipment, and increase technology of the program are in progress.

Dental Assisting. The program had 13 of the 15 senior students working on co-op in dental offices in the local community. Four students competed in dental assisting at the SkillsUSA District competition which was held at Shawsheen Valley Technical High School. One earned the Gold Medal and one the Silver Medal at the State Competition. A senior went onto the National Competition, which was held at Shawsheen virtually, where she won the Silver Medal. Some of the students have successfully passed the DANB National Certifications in RHS – Radiation Health and Safety and ICE – Infection Control exams. Many have become licensed as Dental Assistants, RDA Registered Dental Assistants for the State of Massachusetts, and are presently employed working as dental assistants.

Medical Assisting. The Medical Assisting Program is accredited by, and affiliated with, the AMT (American Medical Technologists). All senior students continue to gain valuable clinical experience through our Cooperative Education Program or externship at Lahey Hospital and

Medical Center in Burlington. Through collaboration with our very active Craft Advisory Board and their recommendations, the program stays on top of state-of-the-art equipment and meets the needs of the current job market and potential employers. Currently, students are employed in medical offices such as Rheumatology and Internal Medicine, Pediatric Practices, as well as a Veterinary Clinic. The Program continues to expand its cooperative education employer list and its expansion to new clinical opportunities.

Health Assisting. The Health Assisting Program continues to offer bright prospects for students seeking rewarding careers, as ninety percent (90%) of the senior class participated in the cooperative education program. These students provided invaluable help during the pandemic working in rehabilitation, long term care centers and assisted living homes. One hundred percent (100%) of the junior class passed the Certified Nursing Assistant (CNA). Many of the students also medaled at the SkillsUSA state competition, where they were awarded a Silver medal for First Aid CPR, a Silver medal for Nurse Assisting, and a Bronze medal in the Health Know Bowl.

Miscellaneous

Capital Budget / Perkins V Grant. The Carl D. Perkins Career and Technical Education Grant (Perkins IV) is critical to ensuring our programs meet the ever-changing needs of technologies and equipment. SVTHS was approved and received a total of \$97,160. This federal funding strengthened the following Career and Technical programs.

Health Assisting	Patient Simulator	\$10,217
Advanced Manufacturing Technology	Metal Cutting Bandsaw	\$14,882
Carpentry	Vertical Bandsaw	\$6,794
Electricity	Hydraulic Conduit Bender	\$16,701
Heating, Ventilation, Air Conditioning & Refrigeration	Mini Ductless Splits	\$7,174
Metal Fabrication & Joining Technologies	Portable Welder	\$5,051
Metal Fabrication & Joining Technologies	Power Notches	\$14,485
Masonry & Tile Setting	Trailer	\$7,356
Graphic Communications	Printer	\$14,500

SkillsUSA Massachusetts. SkillsUSA is a partnership with business and industry that provides opportunities for students to develop individually and improve teamwork, leadership and professional skills through education, training, service, and competition. With COVID-19 still being an ongoing global pandemic and the advent of the Delta variant, SVTHS decided to hold the State competition internally. On March 11, 2021, three different areas of the school were set up to accommodate one hundred and forty-five (145) students participating in the SkillsUSA District Conference. Sixty-four (64) qualified for the State competition and out of those students forty (40) medals were achieved. Of those, seven (7) gold medals were awarded, sending those students to the National SkillsUSA competition. For the first time ever the 2021 SkillsUSA National Conference competitors competed virtually, in their homes, local business, and at their schools from June 7 to June 22.

Robotics Club. Students engaged in virtual VEX Robotics Competitions, presented by the Robotics Education & Competition Foundation. Due to the pandemic, most VEX Robotics Competitions transitioned to fully remote competitions, where Shawsheen was able to participate in two events. Our related room was transformed into a setting where the students could compete and record the entire competition. The first competition was the Virtual “Change-Up” Skills Event featuring fully remote judging based out of New York, with teams from all over the world competing in this event. Our teams were extremely competitive and placed 10th and 11th overall. The next competition was the Southern New England Championship, where our teams placed 8th and 27th out of 37 teams. In addition to the club competitions, two of the club members participated in the SkillsUSA Mobile Robotics competition at the district, state, and national levels.

e-sports: (a.k.a. electronic sports) eSports is a form of competition using video games which often takes the form of organized, multiplayer video game competitions, particularly between professional players, individually or as teams. SVTHS is in its fourth year of having Massachusetts-recognized varsity level eSports teams. The varsity program expanded to three games over two leagues and had over seventy-five (75) participants; the leagues are regional and state. Games played are: League of Legends (state and regional), Rocket League (regional) and Smash Ultimate (regional).

Conclusion and Acknowledgement

The SVTHS Committee, staff and students gratefully appreciate the support that they receive from the residents of the five-member District. The SVTHS family especially acknowledges the continued financial support of the local town managers, finance committees, and town meetings, who collectively ensure and perpetuate the highest quality in vocational/technical training opportunities for area youth.

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- The District is grateful for the significant contributions provided by SVTHS staff and employees and acknowledges the many contributions of the SVTHS staff who retired during 2021. Those retirees are: Joseph Barrett, Advanced Manufacturing Instructor; Margaret Costello, Culinary Instructor; Robert Galante, Information Support Services & Networking Instructor; Carol Geary, Comptroller; Richard Lavoie, Coop Coordinator; and Mary Jean Matarazzo, Business Technology Instructor.
- Finally, it is essential that we acknowledge and remember our colleague, Mark Donovan, long-time Assistant Dean and legendary Shawsheen Wrestling Coach, who passed away after a hard-fought battle with cancer in October 2021. Throughout his 30-plus years at Shawsheen, Mark touched the lives of thousands of students, serving as a role model for many who needed a strong male presence in their lives. Mark was a fierce supporter of those who he identified as needing someone in their corner. As a colleague, Mark was adored as someone who was always eager to help a friend in need, or who despite his tough exterior, always offered kind words of encouragement. Mark Donovan was the soul of Shawsheen. He was loved and respected by all who knew him. His loss has been, and will continue to be, felt deeply and personally by the adults and students at Shawsheen.

Recreation

Billerica's Recreation Department continues to play a central role in helping define the Town's quality of life. The primary directive of the Recreation Department is to offer low-cost recreational programs, services, trips and special events to the citizens of Billerica. Our recreational, educational and cultural programming reflects the interest and diversity of our community. In addition to programming and special events, we are committed to ensuring our parks and recreational facilities provide a safe and pleasant experience for visitors.

Fiscal Year 2021 brought unique and unprecedented challenges as we navigated the hardships of the Covid-19 pandemic. With health and safety at top of mind, we had to re-think and re-establish what community-based recreation programming would look like during this time of hardship. I am very proud of the work and efforts our department and our staff put forth in juggling the difficult balance of continuing to offer necessary socially and physically enrichment programs, while keeping with the ever-changing health and safety protocols and recommendations. As we continue to adapt to the ongoing pandemic, we are pleased to provide an outlet of escape for those in need of social, physical, and mental stimulus through our programs.

While Covid-19's impact did not allow us to run all of our usual programs, we were able to run many community favorites. This included adapted versions of our summer camps: Superstars and Neighborhood Parks. Adjustments we had to make to ensure safety for participants included: reducing the number of enrolled participants, decreasing the number of participants allowed within one group, requiring masks, requiring social distancing when possible, eliminating field trips, and reducing the number of hours our programs ran on a daily basis. While the programs were not as fruitful as we traditionally would have liked them to be, we received high praise from parents for what we were able to provide. The gratitude expressed by many assured us that we were making the right choices, and we are ever grateful to those who entrust us with the well-being of their children!

One significant obstacle we faced in FY21, as with all years, is a significant lack of adequate indoor recreation space. In a normal year this lack of space hampers our abilities to run certain programs, but in FY21 it brought those programs to a screeching halt. Throughout FY21, we were unable to access school facilities to run recreation programs. This meant all programs offered must be outside. This had a significant impact on our abilities to run programs in the cold weather months. Additionally, in a poll sent to parents in Spring 2021, a majority of the over 500 who responded indicated they would not allow their child to use a porta-potty due to health concerns. Once again, without access to school buildings and an inability to provide adequate restrooms, this greatly impacted our decisions to run shorter programs.

In early 2021, our Director and Commission Chair were asked to join a newly formed "Capital Needs Assessment Committee", where the lack of indoor recreation space is considered to be a top priority. Through this committee, we are hopeful to see traction gained towards a future Billerica Community Center, to allow residents of Billerica a suitable indoor recreation space. We are extremely grateful for the work of John Curran, Clancy Main, and the selectboard for identifying our needs as a top tier priority, and for creating this committee for us to explore a future Community Center further.

Speaking of facilities, in FY21 Spring Town Meeting voted overwhelmingly in favor to support the redevelopment of the PHR athletic fields. This project will be partially funded through the CPC. After working for nearly two years alongside the PHR Committee, we are so thrilled that this project will be moving forward! This project will include the install of two full-size multi-purpose turf fields, two brand new softball fields, a multi-use building that includes: concession, restrooms, and a meeting, a courtyard/game zone, a picnic zone, and other improvements. This project is slated to be completed by Spring 2023. A big thanks goes out to all who have worked tirelessly on this project, or supported it, including the CPC Committee for voting in favor of funding this amazing project.

On the personnel side, FY21 saw our Recreation Maintenance Coordinator, Anthony Amato, transfer from Recreation to a different department in town. Anthony played a pivotal role in keeping our parks clean, maintaining our playgrounds, as well as a wide variety of tasks. Anthony will be missed within our department. At the same time of Anthony's exit, the town formed a new Facilities Department, with most of the tasks formerly completed by our Maintenance Coordinator being picked up by this new department. As such, the position of Maintenance Coordinator was removed from the Recreation Department and rolled into Facilities. We are very much looking forward to working with the Facilities Department and know they will make a positive impact throughout the parks!

With Covid baring down on us for the duration of FY21, keeping parks open presented unprecedented challenges. Keeping these open would not have been possible without the partnership and support of all of our in-town user groups. A specific thank you goes out to: Billerica Little League, Billerica Softball, Billerica Lacrosse, Billerica Soccer, and Billerica Pop Warner for all of your help and diligence in helping to enforce the necessary safety protocols and for your support. Additionally, our department continued to work in lockstep with Mike Haines and the Parks Department. They have done an exceptional job in bringing Billerica playing fields up to a high standard.

In addition to our devoted staff, our volunteers play a critical role in enabling the department to achieve its goals. They provide direct and indirect opportunities and support to participants in our programs and allowing us to continue growing our number of special events. The Recreation Department has received support from the business community allowing us to offer specialized programs and activities for the continuous enjoyment of our citizens, businesses and visitors. We are looking to continue to grow our public/private partnerships in order to maintain and improve the rich diversity of recreation services we can provide to our community. Additionally, the number of volunteer hours from our Recreation Commission, Middlesex County Community Work Program, various Eagle Scouts, and private citizens is invaluable and we cannot thank them enough!

There is no way around the fact that FY21 was a bumpy year, filled with unprecedented challenges. However, I am very proud of our staff's ability to answer the bell and adjust on the fly to continue offering high-quality programs that our town has come to expect. As we move into FY22, we are looking forward to continuing to adapt to the challenges facing our department due to the ongoing pandemic and are confident that we will continue offering an assortment of safe and important services to the community. As always, we continue to be appreciative of the support we have received from the residents, Town Offices, School Department, and all other partners throughout the year.

Respectfully submitted,

A handwritten signature in dark ink, appearing to read "David Grubb". The signature is fluid and cursive, with the first name "David" and last name "Grubb" clearly distinguishable.

David Grubb
Director, Billerica Recreation Department

MUNICIPAL TELEPHONE NUMBERS

PLEASE REMEMBER TO USE THE 978 AREA CODE BEFORE DIALING

EMERGENCY	9-1-1	FIRE	663-3433
POLICE	667-1212	All other purposes	671-0941
All other purposes	671-0900	POISON CONTROL	1-800-682-9211
AMBULANCE	667-1212		

Appeals Board.....	671-0964
Assessors Board	671-0971
Billerica Housing Authority	667-2175
Billerica Municipal Employee	
Credit Union	667-2434
Building Department	
Building Commissioner	671-0959
Plumbing Inspector	671-0960
Wiring Inspector	671-0961
Zoning Officer	671-0959
Cemetery Department Andover Road	
Superintendent	671-0946
Emergency Management	671-0918
Conservation Commission	671-0966
Council on Aging	671-0916
Dog Pound	671-0909
Election and Voter Registration	
Board of Registrars	671-0926
Health Department	
Board of Health	671-0931
Public Health Nurse	671-0932
Library	671-0948
Personnel Board	671-0942
Planning Board	671-0962
Public Works Department:	
Director	671-1313
Chemist	671-0957
Engineer	671-0955
Highway	671-0951
Sewers.....	671-0965
Water Treatment	671-0957
Operation Coordinator	436-9178
Recreation	671-0921

School Department:	
School Department Directory	528-7900
Superintendent.....	528-7908
Ditson Elementary School.....	528-8510
Dutile Elementary School.....	528-8530
Hajjar Elementary School.....	528-8550
Kennedy Elementary School.....	528-8570
Locke Middle School.....	528-8650
Marshall Middle School.....	528-8670
Memorial High School.....	528-8710
Parker Elementary School.....	528-8610
Vining Elementary School.....	528-8630
Shawsheen Valley Tech	667-2111
Sealer of Weights and Measures	454-8021
Selectmen	671-0939
State Welfare Office	
Middle Street, Lowell	454-8061
Tax Collector	
Excise, Real Estate Bills	671-0920
Water/Sewer Bills.....	671-0954
Town Accountant	671-0923
Town Clerk – Certificates/Licenses .	
Dogs, Births, Deaths, Marriages, Unif. Comm.	
Code, Hunting Fishing, etc.	671-0924
Town Hall Custodian	671-0942
Town Manager	671-0942
Town Treasurer	
Tax Title.....	671-0928
Veteran's Services	671-0968