Montclair BOE

District Wide Improvements

AGENDA

- Montclair BOE & PSA Completed Projects Timeline
- Active Projects
- District Wide Building Masonry Improvements
Montclair BOE & PSA Timeline

- 2015: PSA Hired
- PSA Visited All Facilities
- Capital List Compilation and Assessment
- PSA Revisited All Facilities
- Structural Analysis

2015 - 2016
- Floor Replacement at Nishuane School*
- Montclair High School Media Center
- HS Classroom Renovations
- HS Cafeterias A/C
- NE Intercom Upgrade

2016 - 2017
- Bradford School Storm Pipe*
- Charles Bullock De-escalation Room
- HS, NE, Nishuane & Renaissance Site Renovations
- HS Restroom Upgrades (Gym)

2017 - 2018
- George Inness Masonry Repair*
- HS, NE, Watchung Floor Repair
- Glenfield Middle School Planetarium Seating
- Glenfield Re-keying
- Watchung SGI Change in Use

2018 - 2019
- High School Stair*
- Glenfield Truss Repair*
- Fortunato Turf Field
- Woodman Track
- District Wide Site Masonry Restoration
- Watchung HVAC Upgrades
- ESIP

2019 - 2020
- Buzz Aldrin MS Stairs**
- District Wide Building Masonry**

*Emergent Project
**Priority Project

Not all projects included.

Montclair High School
Toilet Renovations
MONTCLAIR HIGH SCHOOL

Paving

MONTCLAIR HIGH SCHOOL

Stair Replacement
NISHUANE ELEMENTARY SCHOOL

Paving

GLENFIELD MIDDLE SCHOOL

Truss Repair
EDGEMONT ELEMENTARY SCHOOL
Exterior Stair Reconstruction

GEORGE INNESS ANNEX
Masonry Repair & Restoration
WATCHUNG ELEMENTARY SCHOOL
Exterior Stair Reconstruction

FORTUNATO FIELD
Turf Replacement
WOODMAN FIELD
Track Replacement

ACTIVE PROJECTS

- District Wide Site Masonry Improvements
- Energy Savings Improvement Program (ESIP)
- In Development:
  - Nishuane Chair Lift Replacement
  - Edgemont School Chair Lift Replacement
  - Glenfield School Attic Insulation
  - Buzz Aldrin Middle School Stair Replacement
DISTRICT WIDE SITE MASONRY IMPROVEMENTS
EDGEMONT SCHOOL

DISTRICT WIDE SITE MASONRY IMPROVEMENTS
RENAISSANCE AT RAND MIDDLE SCHOOL
DISTRICT WIDE SITE MASONRY IMPROVEMENTS
HILLSIDE ELEMENTARY SCHOOL

BUZZ ALDRIN MIDDLE SCHOOL
Stair Replacement (In Development - Summer 2020 Construction)

FUTURE VISION & INITIATIVES:

- PSA reported on potential concerns regarding these stairs per the draft structural analysis issued on January 8, 2019, and included in the final report dated May 29, 2019.
- The District brought to PSA’s attention concerns regarding these stairs on November 25, 2019.
- PSA further investigated the conditions. This involved destructive investigation not previously conducted.
- Treads were demolished to reveal concealed spaces and hidden conditions.
- Since investigations, PSA has been in process of developing construction drawings to replace these stairs.
GEORGE INNESS ANNEX
Stair Replacement (Priority for Future Project)

FUTURE VISION & INITIATIVES:

- PSA reported on a number of visible concerns regarding these stairs per the draft structural analysis issued on January 25, 2019. (Final report was issued May 29, 2019.)
- The District brought to PSA's attention concerns regarding concealed portions of these stairs on December 17, 2019.
- After walls were opened to reveal concealed spaces, PSA further investigated the conditions. This required destructive investigation not previously conducted.
- Since these investigations, PSA awaits direction on how to proceed.

ENERGY SAVINGS IMPROVEMENTS PROGRAM (ESIP)

Dec '15: BOE Approves PSA to assist in ESIP 2016

2017

Aug '16: LGEA Approval Issued to BOE

Jan - May '17: LGEA on Hold

2018

Jan '18: Draft LGEA Reports Issued to BOE for 7 buildings.

2019

Jan '19: Final LGEA Reports Issued to BOE for all Buildings

March '19: ESCO RFP Released

May '19: ESCO Proposals Received

June '19: BOE Awards ESCO

Sept '19: ESCO Presents to Board

2020

Winter 2016:
LGEA Audits Performed:
- Utility Costs
- Building Envelope
- Lighting Systems
- Heating Systems
- Electric Usage & Demand
- Energy Demand

Summer 2019:
IGIA Audits Performed:
- Mechanical BMS
- Lighting Systems
- Building Envelope
- Steam Trap / Plumbing
- Water Conservation
- Pipe Insulation
- Transformer
- Solar
- Plug Load
- Window

2020 Projected Timeline:
- Spring 2020: Honeywell Issues ESP to BOE
- Spring / Summer 2020: Third Party ESP Review
- Fall / Winter 2021: ESP Implementation
DISTRICT WIDE
BUILDING
MASONRY
IMPROVEMENTS

BUILDING MASONRY-BACKGROUND & HISTORY
Buzz Aldrin Cornice
BUILDING MASONRY - PROJECT SCOPE

ADMINISTRATION BUILDING:
Masonry restoration to brownstone base and window sills, and brick repointing.

BRADFORD ELEMENTARY SCHOOL:
Masonry restoration and waterproofing at cast stone/limestone, repair of brick chimneys, and metal coping installation.

BUZZ ALDRIN MIDDLE SCHOOL:
Masonry restoration and waterproofing, lintel replacement, and metal coping replacement.

CENTRAL HEATING PLANT/COAL BUNKER:
Masonry restoration/brick repointing and waterproofing, and structural repairs to former coal bunker structure.

CHARLES H. BULLOCK:
Repointing to cast stone pilastras and wall panels.

EDGEMONT ELEMENTARY SCHOOL:
Cornice repair, lintel replacement, and barrier free ramp repairs.

GEORGE INNES ANNEX:
Cast stone masonry repair, lintel replacement, and concrete slab repairs at “Little Theater.”

GLENFIELD MIDDLE SCHOOL:
Cupola restoration, brick repointing, and lintel replacement.

HILLSIDE ELEMENTARY SCHOOL:
Brick masonry repointing, and lintel replacement.

MONTCLAIR HIGH SCHOOL:
Masonry restoration and waterproofing, parapet masonry and metal coping repairs, and repair Wood Shop concrete floor slab.

NISHIJANE ELEMENTARY SCHOOL:
Cornice restoration and waterproofing, brick masonry, repointing, and lintel replacement.

NORTHEAST ELEMENTARY SCHOOL:
Masonry restoration and repointing, ashlar stonework repairs, lintel replacement, and metal coping on parapet replacement.

MONTCLAIR COMMUNITY PRE-K:
Miscellaneous masonry restoration, brick repointing, waterproofing, and lintel replacement.

RENAISSANCE AT RAND:
Miscellaneous masonry restoration, brick repointing, waterproofing, and lintel replacement.

WATCHUNG ELEMENTARY SCHOOL:
Metal coping and repointing at parapet walls, and lintel replacement.

BUILDING MASONRY - INVESTIGATIONS

EDGEMONT SCHOOL

[Diagram of Edgemont School with various photos and close-ups of masonry details]
BUILDING MASONRY - INVESTIGATIONS
HILLSIDE ELEMENTARY SCHOOL

BUILDING MASONRY - NEXT STEPS

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THANK YOU