



Saint Paul
PUBLIC SCHOOLS

Major Capital Projects:

Board of Education
monthly progress update

Facilities Department

December 2020



Project Timeline

1. Gate Check 1: Five-Year Capital Improvement and Deferred Maintenance Implementation Plan

Work identified in the five-year plan has been prioritized over the represented five-year horizon. Specificity of scope, schedule and budget vary for projects contained in the plan.

Board action requested: Approval of prioritization of work as represented in the plan.

2. Gate Check 2: Project Charter

The project charter is a product of internal pre-design work for projects estimated to be over two million dollars. The project charter contains the defined scope based on the evaluation of building condition, programmatic need, and initial stakeholder engagement. The preliminary schedule and project estimate are included.

Board action requested: Approval of the project charter indicating acceptance of the identified scope and understanding of the project schedule and rough order of magnitude of cost. Approval indicates the Board's direction to issue a request for proposal to secure design services.

3. Gate Check 3: Project Budget

Once a project has moved through schematic design, solutions have been identified and developed with sufficient detail to estimate a construction cost and set a final project budget. Finalization of the design and construction drawings will be informed by this budget.

Board action requested: Approval of final project budget. Approval indicates the Board's direction to proceed with construction bidding so long as the project remains within the allotted budget.

4. Gate Check 4: Construction Award

Per public procurement practices, work will be advertised for bid and bids will be received by the Purchasing Office and vetted for response compliance. Project consultants will vet the value of bids against anticipated costs and provide the District with a formal recommendation to award based on the lowest responsible bid.

Board action requested: Approval of vetted and recommended vendors to award work and enter into contractual agreement for construction.

5. Gate Check 5: Project Closeout

This gate check will be presented at the beginning of the project closeout phase and again upon final fiscal closeout of the project. The project closeout period begins at substantial completion of construction. The Substantial Completion certificates indicate beneficial occupancy and shift of focus to completion and inspection of punchlist items and entry into warranty period. There are still outstanding financial obligations during the closeout phase of the project, but an initial evaluation of the overall use of budget can be conducted. The second presentation of this gate check will occur when all contractual obligations are complete and all final payments have been issued. This can occur twelve to eighteen months after completion of construction. Except in the rare circumstance in which Substantial Completion and final closeout occur simultaneously, the Board will see the following two reports during this gate check:

- Gate Check 5.1: Initial Project Closeout (Substantial Completion)
- Gate Check 5.2: Final Project Closeout

Board action requested: Acceptance of report(s).

Project Financial Information

- A. Rough Order of Magnitude Cost Estimate:** In the initial planning phase, the cost of a project gets refined along the way as the scope of work is fine tuned and more in-depth information is gathered on the condition of the building and overall site. Through this process, the initial costing evolves from a rough estimate referred to as a "Rough Order of Magnitude" to a final budget. (Presented to the Board at Gate Check 1 and 2.)
- B. Original Budget:** Final project budget approved by the Board at Gate Check 3.
- C. Committed Costs:** Contractual obligation of funds for project work.
- D. Invoiced to Date:** Invoices are submitted and approved through Procore, the project management environment used by the District. The value represented indicates all invoices submitted and approved by the project team.
- E. Construction Award:** Total of all construction contracts.
- F. Construction Cost Changes:** Value of all change orders issued to construction contracts.
- G. Percent Change:** Calculation of construction change orders against total construction award.
- H. Total Forecasted Cost:** Anticipated cost of the fully delivered project at the time of the report including known committed, pending, and potential costs as identified by the project team.
- I. Construction Percent Complete (as invoiced):** Percent of completion is calculated based on the value of work in place as indicated on the vetted and approved pay applications submitted by contractors against the total value of construction commitments. As this is based on billed amounts, there is frequently a 30-60 day lag to represent the work in full.



Saint Paul
PUBLIC SCHOOLS

American Indian Magnet: December 2020 Project Update



Location:
1075 Third St. E.
Saint Paul, MN 55106

Grades: PreK-8
Enrollment (SY19-20): 638

Project website:
<https://www.spps.org/aimsfmp>

Project summary

Project number: 1160-19-01

Funding: Certificates of Participation (COP)

Project type: Addition and renovation

Square footage:

- Existing: 103,000 sf
- Proposed: 131,626 sf

SPPS project team:

- Angela Selb-Sack, Senior Project Manager
- Larry Opelt, Project Manager
- Michelle Bergman Aho, Project Coordinator

Design team: Cuningham Group

Construction management: H+U Construction

Project scope

- Additions with new PreK-8th grade classrooms, administration area, media center (Long House), kitchen, and cafeteria.
- New playground and site improvements.
- Renovation of existing building including learning spaces, academic support spaces and restrooms.
- Replacement of all finishes, HVAC and controls, plumbing, lighting, required upgrades to fire suppression and fire alarm systems.

New this month

- Site work is concentrated on the footing and foundations for the new three-story academic and single-story administration additions.
- Installation of the new boilers is complete. The building's heat is now served by four high-efficiency condensing boilers.

December 2020 Project Financial Information

Original Budget	Committed Costs	Invoiced to Date	Construction Award	Construction Cost Changes	% Change	Total Forecasted Cost	Construction % Complete (as invoiced)
\$53,300,000	\$42,935,339	\$6,257,400	\$33,756,040	\$364,535	1.08%	\$43,422,952	9.81%

Project Timeline

Phase: <i>Planning</i> → <i>Design</i> → <i>Construction</i> →							
BOE Gate Check:	Five Year Plan	Project Charter	Budget Approval	Contract Award			Closeout
Key dates:	✓ Oct. 2018	☐ N/A	✓ Feb. 2020	✓ May 2020			☐ Fall 2024

American Indian Magnet



From top then left to right:
Old boiler; footing and foundation for new gym entry; framing of foundation for new addition; new boilers
(November 2020)



Saint Paul
PUBLIC SCHOOLS

Education and Operations Services*

December Project Update

Location: 1930 Como Ave., Saint Paul, MN 55108

Project website: <https://spps.org/districtservicefacility>

*Formerly known as the District Service Facility.

Project summary

Project number: 4000-16-01

Funding: Certificates of Participation (COP), Capital Bonds (CAP), Long-Term Facilities Maintenance (LTFM)

Project type: Addition and renovation

Square footage:

- Existing: 228,836 sf
- Proposed: 248,836 sf

SPPS project team:

- Pam Bookhout, Project Manager
- Michelle Bergman Aho, Project Coordinator

Design team: TKDA

Construction management: Kraus-Anderson

Project scope

Addition with flexible office space and training center; clear entry, reception desk and improved wayfinding. Teams' spaces for informal and formal collaboration; replacement of all finishes in remodeled areas, new water main, new electrical service, improved lighting and updated restrooms in remodeled areas.

New this month

- A new electrical service has been installed with new electrical rooms built in various areas, new panels, and new transformer pad. Two exterior points of access from Xcel Energy's power have been simplified to one. Existing systems were switched over to the new service on Nov. 16.
- Contractors have been installing windows in the new addition. Interior framing, insulation, mechanicals, etc. are underway and spaces are taking shape.
- New lighting poles were installed in the new north parking lot and are now powered up.

December 2020 Project Financial Information

Original Budget	Committed Costs	Invoiced to Date	Construction Award	Construction Cost Changes	% Change	Total Forecasted Cost	Construction % Complete (as invoiced)
\$17,120,000	\$11,738,005	\$3,889,923	\$8,011,456	\$255,311	3.19%	\$11,860,444	26.60%

Project Timeline

Phase: <i>Planning</i> → <i>Design</i> → <i>Construction</i> →							
BOE Gate Check:	Five Year Plan	Project Charter	Budget Approval	Contract Award	Closeout		
Key dates:	✓ Oct. 2018	☐ N/A	✓ Feb. 2020	✓ May 2020	☐ Fall 2021		

Education and Operations Services



Images from top then left to right:
Electrical switchgear for new service; interior mechanical work; electrical lines; exterior panels and windows
(November 2020)



Saint Paul
PUBLIC SCHOOLS

Frost Lake Elementary: December 2020 Project Update



Location:
1505 E. Hoyt Ave.
Saint Paul, MN 55106

Grades: PreK-5
Enrollment (SY19-20): 526

Project website:
www.spps.org/frostlakefmp

Project Summary

Project number: 1100-19-01

Funding: Capital Bonds, Long-Term Facilities Maintenance

Project type: Addition and renovation

Square footage:

- Existing: 73,415 sf
- Proposed: 98,493 sf

SPPS project team:

- Rosemary Dolata, Project Manager
- Michael Christen, Project Coordinator

Design team: U+B Architecture & Design

Construction management: Kraus-Anderson

Project Scope

- 32,000 sf addition with new PreK and K classrooms, dividable gym, kitchen, cafeteria, secure main entry and service entrance.
- New playground, re-routed bus traffic and new drop off curb cuts.
- Renovation of existing building with learning and academic support spaces, restrooms; demolition of parks and recreation building connected to school.
- Replacement of all finishes, HVAC and controls, lighting; new fire suppression and fire alarm systems.

New this month

- Below-grade electrical service was rerouted to service the building addition.
- Concrete floor was poured in addition's lower level.
- Temporary windows are now in place allowing interior work to continue through the winter.
- Building addition roof was completed in November.
- Ductwork material is on site for mechanical work.
- Exterior insulation installation moved up to reduce temporary heating expenses during winter.

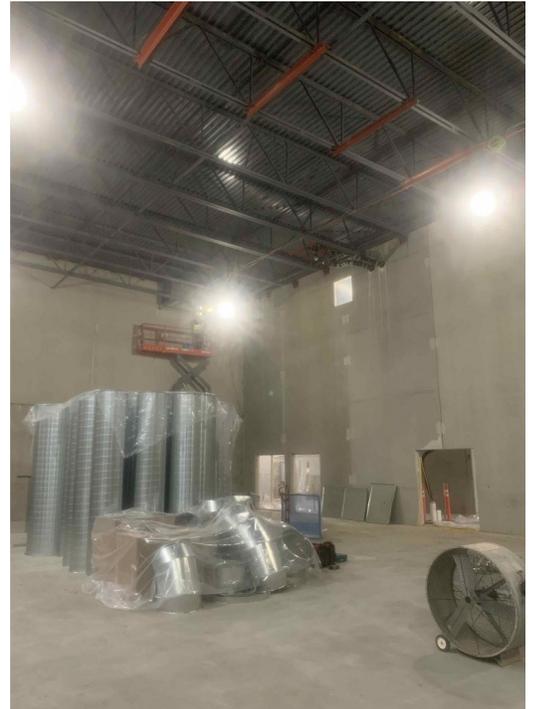
December 2020 Project Financial Information

Original Budget	Committed Costs	Invoiced to Date	Construction Award	Construction Cost Changes	% Change	Total Forecasted Cost	Construction % Complete (as invoiced)
\$36,000,000	\$22,988,089	\$4,255,484	\$17,650,292	\$179,575	1.02%	\$23,095,896	12.15%

Project Timeline

Phase: Planning		Design			Construction		
BOE Gate Check:	Five Year Plan	Project Charter	Budget Approval	Contract Award			Closeout
Key dates:	✓ Oct. 2018	☐ N/A	✓ Dec. 2019	✓ May 2020			☐ Aug. 2022

Frost Lake Elementary



From top then left to right: Below-grade electrical service rerouted to building addition using directional boring; concrete floor poured in the lower level of building addition — photo shows future cafeteria; temporary windows now in place allowing interior work to continue through the winter; building addition roof was completed in November; ductwork materials are on site in anticipation of beginning mechanical work (November 2020)



Saint Paul
PUBLIC SCHOOLS

Humboldt High School: December 2020 Project Update



Location:
30 Baker St. E.
St Paul, MN 55107

Grades: 6-12

Enrollment (SY19-20):
1,163

Project website:
<http://www.spps.org/humboldttmp>

Project summary

Project number: 2142-16-02

Funding: Certificates of Participation (COP)

Project type: Addition and renovation

Square footage:

- Existing: 230,829 sf
- Proposed: 255,276 sf

SPPS project team:

- Angela Selb-Sack, Senior Project Manager
- Michael Christen, Project Coordinator

Design team: Cuningham Group

Construction management: H+U Construction

Project scope

- Two three-story additions to create new middle school house; right-sizing of learning spaces to support existing student population; relocation of main entry to make easily identifiable and adjacent to parking.
- Renovation of existing building including learning spaces, academic support spaces and restrooms.
- Replacement of all finishes, HVAC and controls, plumbing, lighting; required upgrades to fire suppression and fire alarm systems.

New this month

- Restoration of the construction parking and storage across the street was completed.
- Remainder of project work to be concentrated in auditorium. There is a slight pause in major work in this area waiting for theater rigging to arrive. Once on site and installed, the lighting, mechanical, ceiling, and seating will follow.

December 2020 Project Financial Information

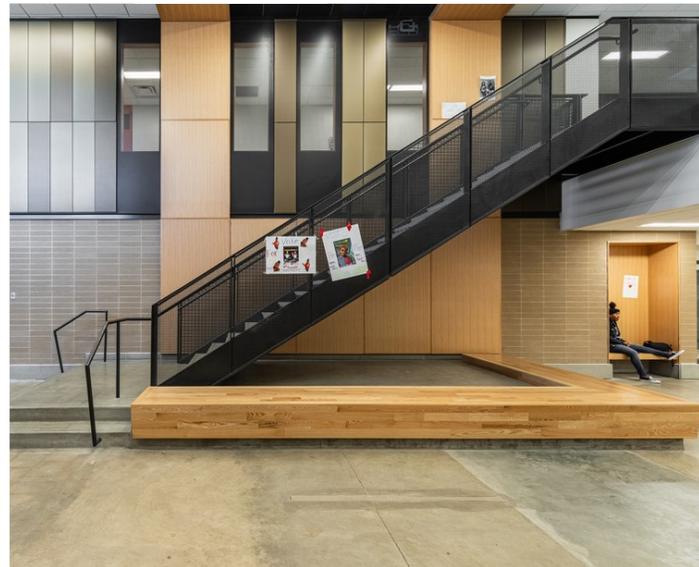
Original Budget	Committed Costs	Invoiced to Date	Construction Award	Construction Cost Changes	% Change	Total Forecasted Cost	Construction % Complete (as invoiced)
\$48,000,000	\$48,249,758*	\$40,963,893	\$37,257,624	\$2,938,826	7%	\$48,000,000	90%

*Surety payment of \$ \$1,915,916 due to a contractor that went out of business will offset the value over the approved budget.

Project Timeline

Phase: <i>Planning</i> → <i>Design</i> → <i>Construction</i> →							
BOE Gate Check:	Five Year Plan	Project Charter	Budget Approval	Contract Award	Closeout		
Key dates:	✓ May 2016	☐ N/A	✓ N/A	✓ March 2017	☐ Spring 2021		

Humboldt High School



From top to right: Restoration of the construction parking and storage area; finished spaces: inclusive restroom; main office and entrance area with staircase; bulletin board (November 2020)



Saint Paul
PUBLIC SCHOOLS

Johnson Senior High School: December 2020 Project Update



Location:
1349 Arcade S.
Saint Paul, MN 55106

Grades: 9-12

Enrollment (SY19-20):
1,243

Project website:
www.spps.org/Page/39804

Project summary

Project number: 1150-19-01

Funding: Long-Term Facilities Maintenance (LTFM)

Project type: Building systems upgrades

Square footage:

Existing: 281,369; Proposed: N/A

SPPS project team:

- Jason Jones, Project Manager
- Josie Geiger, Project Coordinator

Design team:

- TKDA
- Tim Hoseck, Engineer
- Lon Fiedler, Engineer

Construction team: N/A

Project scope

- Significant replacements to the HVAC system
- Lighting replacement

New this month

- No satisfactory bid was received, therefore all bids were rejected. The project scope will be reevaluated and sent out for bid again at a later date.

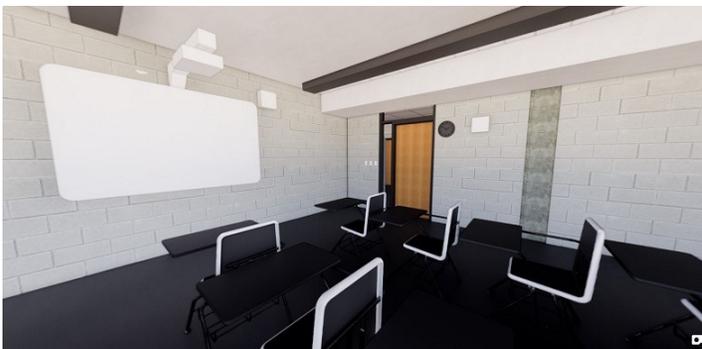
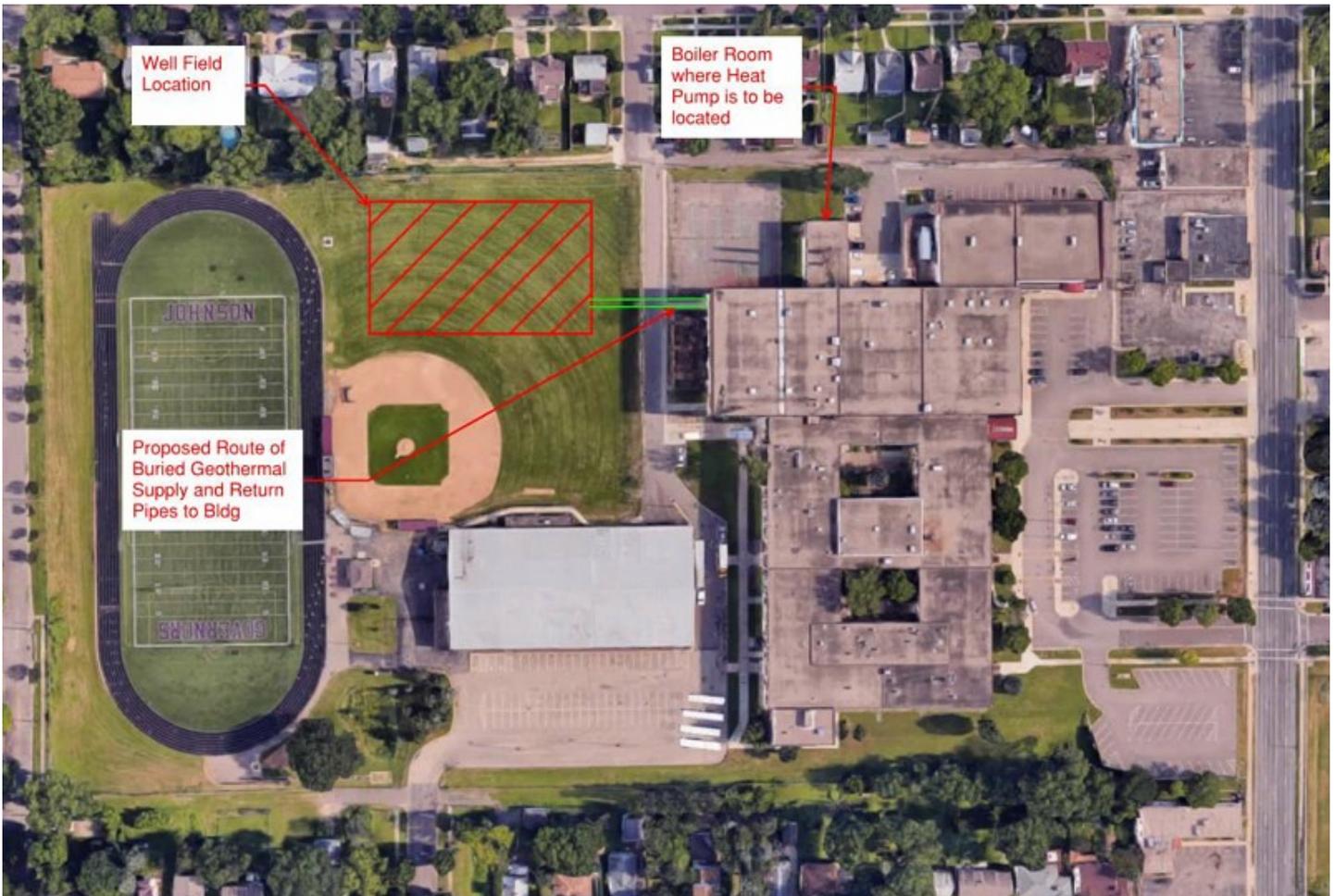
December 2020 Project Financial Information

Original Budget	Committed Costs	Invoiced to Date	Construction Award	Construction Cost Changes	% Change	Total Forecasted Cost	Construction % Complete (as invoiced)
\$16,500,000	\$1,184,037	\$697,699	TBD	N/A	N/A	N/A	N/A

Project Timeline

Phase: Planning		Design			Construction		
BOE Gate Check:	Five Year Plan	Project Charter	Budget Approval	Contract Award			Closeout
Key dates:	✓ Oct. 2018	☐ N/A	✓ Oct. 2020	☐ Jan. 2021			☐ Fall 2022

Johnson Senior High School



Top image: Site photo showing location of geothermal well field

Bottom images: Rendering of what a typical classroom will look like with the drywall soffit and new air ductwork hidden within it; rendering of what the typical hallway spaces will look like; new ACT ceilings and LED lighting with new air ductwork above ceiling.



Saint Paul
PUBLIC SCHOOLS

Phalen Lake Hmong Studies: December 2020 Project Update



Location:
1089 Cypress St.
Saint Paul, MN 55106

Grades: PreK-5
Enrollment (SY19-20): 662

School website:
<https://www.spps.org/phalen>

Project summary

Project number: 1200-19-01

Funding: Certificates of Participation (COP)

Project type: Building systems upgrades

Square footage:

Existing: 77,899 sf; Proposed: N/A

SPPS project team:

- Vaughn Kelly, Project Manager
- Josie Geiger, Project Coordinator

Design team:

- Architect, The Adkins Association Architects
- Mechanical Engineering, IMEG
- Electrical Engineering, IMEG
- Structural Engineering, A.M. Structural Engineering

Construction management: N/A

Project scope

Significant upgrades to HVAC systems for improved indoor air quality, increased circulation of fresh air, and efficient maintenance of appropriate temperatures.

New this month

- Phase 1 is coming to a close as the City's Certificate of Occupancy inspection is expected on December 7.
- The new air handling equipment is functional.
- Existing boilers have been connected to new steam-to-hot-water heat exchangers followed by new heat piping throughout the areas affected by Phase 1.
- New ductwork in the gymnasium is complete and the contractor has cleared out after using the gym as a staging area during Phase 1.
- Phase 2 is scheduled to begin in summer 2021.

December 2020 Project Financial Information

Original Budget	Committed Costs	Invoiced to Date	Construction Award	Construction Cost Changes	% Change	Total Forecasted Cost	Construction % Complete (as invoiced)
\$7,175,000	\$5,736,109	\$4,244,506	\$5,101,850	\$254,601	2.34%	\$5,908,665	74%

Project Timeline

Phase: <i>Planning</i> → <i>Design</i> → <i>Construction</i> →							
BOE Gate Check:	Five Year Plan	Project Charter	Budget Approval	Contract Award			Closeout
Key dates:	✓ Oct. 2018	☐ N/A	✓ Feb. 2020	✓ March 2020			☐ Fall 2021

Phalen Lake Hmong Studies



Images from top to bottom:

Pumps and piping for hot water heating system; gymnasium is complete and area cleared of contractor's staging equipment; entry with new ceiling and lighting (November 2020)



Saint Paul
PUBLIC SCHOOLS

Roofing Replacements: December 2020 Project Update

- **Dayton's Bluff:** 262 Bates Ave., St. Paul, MN 55106 / Grades: PreK-5 / Enrollment (SY19-20): 300
- **LEAP High School:** 631 N Albert St., St. Paul, MN 55104 / Grades: 9-12 / Enrollment (SY19-20): 176
- **Hubbs Center:** 1030 University Ave. W., St. Paul, MN 55104 / Adult Basic Education
- **Note:** As part of the on-going roof replacement program, Bridgeview's roof replacement has been postponed to the next funding cycle.

Project summary

Project number: 0175-20-01

Funding: Long-Term Facilities Maintenance (LTFM)

Project type: Building system replacement

Square footage:

Existing: N/A; Proposed: N/A

SPPS project team:

- Vaughn Kelly, Project Manager
- Josie Geiger, Project Coordinator

Design team:

- Architect: Miller Dunwiddie
- Mechanical and Electrical Engineering: Emanuelson-Podas
- Structural Engineering: BKBM

Project scope

Roofing replacements at:

- Dayton's Bluff Achievement Plus Elementary
- Hubbs Center (Adult Basic Education)
- LEAP High School

New this month

- All three buildings—Dayton's, LEAP, and Hubbs—are substantially complete.
- The metal cladding at Hubbs was finished in November and coordinates with the existing, faded metalwork in a way that appears intentional.
- The multi-shade blue is a nod to the aesthetic of AGAPE which is just across University Avenue.
- This cladding is the last step in solving a long-standing issue with water intrusion all around the penthouse.

December 2020 Project Financial Information

Original Budget	Committed Costs	Invoiced to Date	Construction Award	Construction Cost Changes	% Change	Total Forecasted Cost	Construction % Complete (as invoiced)
\$4,343,000	\$3,361,317	\$3,043,576	\$2,688,588	\$434,061	16.14%	\$3,374,232	91%

Project Timeline

Phase: Planning		Design			Construction		
BOE Gate Check:	Five Year Plan	Project Charter	Budget Approval	Contract Award			Closeout
Key dates:	✓ Oct. 2018	☐ N/A	✓ Jan. 2020	✓ April 2020			☐ Fall 2020

Roofing Replacements



All photos from Hubbs:

1st row - Before photos (spring 2020): Roof/penthouse; second angle roof/penthouse.

2nd/3rd rows - After photos (Nov. 2020): Relationship of Hubbs to AGAPE; facade from University Ave; facade from AGAPE



Saint Paul
PUBLIC SCHOOLS

Washington Technology Magnet: December 2020 Project Update



Location:
1495 Rice
Saint Paul, MN 55117

Grades: 6-12

Enrollment (SY19-20):
2,136

Project website:
<https://www.spps.org/Page/38519>

Project summary

Project number: 4040-19-01

Funding: Capital Bonds (CAP)

Project type: Athletic improvements

Square footage:

Existing: N/A; Proposed: N/A

SPPS project team:

- Vaughn Kelly, Project Manager
- Mike Christen, Project Coordinator
- Charles Colvin, Environmental Specialist

Design team:

- Architect and Electrical Engineering: Wold Architects and Engineers
- Civil Engineering: BKBM
- Landscape Design: Calyx Design Group

Multi-sports field with artificial turf; pole-mounted lighting; 8-lane track; discus, shot put, and long jump areas; resurfaced tennis courts; grass practice field

New this month

- The synthetic turf field is complete and the track asphalt is installed and is awaiting rubber surfacing in the spring.
- Field events are largely installed, including a long jump pit, shot put area, and the concrete pad for discus.
- Site remediation continues with excavating the stormwater management system which was pumped free of water and non-structural soil removed. Clean fill is being installed along with a structural geogrid to support the new stormwater system. An impermeable liner will be placed followed by the chamber manifold. The system should be operational in December.
- **Note:** Excess project costs and the majority of project changes are due to discovered soil remediation issues. These types of costs are funded through a separate funding source specifically earmarked to address such issues and do not impact the capital bonds funding athletic improvements.

December 2020 Project Financial Information

Original Budget	Committed Costs	Invoiced to Date	Construction Award	Construction Cost Changes	% Change	Total Forecasted Cost	Construction % Complete (as invoiced)
\$4,669,000	\$6,061,956	\$3,504,220	\$3,904,046	\$1,367,138	35%	\$6,065,997	61%

Project Timeline

Phase: Planning		Design			Construction		
BOE Gate Check:	Five Year Plan	Project Charter	Budget Approval	Contract Award			Closeout
Key dates:	✓ Oct. 2018	☐ N/A	✓ Jan. 2020	✓ March 2020			☐ Nov. 2020

Washington Technology Magnet



Images from top then left to right: Field during punchlist; center logo installed on field; track asphalt sheetflowing water; stormwater excavation prior to pumping water; excavation being filled with structural soil and geogrid; excavation being filled with structural soil and geogrid
(November 2020)



Saint Paul
PUBLIC SCHOOLS

Window Replacements: December 2020 Project Update

- **Journeys:** 90 Western Ave. S., St Paul, MN 55102 / Grades: 9-12 / Enrollment (SY19-20): 66
- **Wellstone:** 1041 Marion St., St Paul, MN 55117 / Grades: PreK-5 / Enrollment (SY19-20): 580
- **Saint Paul Music Academy:** 27 Geranium Ave. E., St. Paul, MN 55117 / Grades: PreK-5 / Enrollment (SY19-20): 598
- **Riverview:** 160 Isabel St. E., St. Paul, MN 55107 / Grades: PreK-5 / Enrollment (SY19-20): 433
Note: Riverview's window replacement has been postponed to the next funding cycle.

Project summary

Project number: 0201-20-01

Funding: Long-Term Facilities Maintenance (LTFM)

Project type: Building system replacement

Square footage:

- Existing: N/A; Proposed: N/A

SPPS project team:

- Pam Bookhout, Project Manager
- Andrew Sivanich, Project Coordinator

Design team: Paul Meyer Architects

General contractor: S & J Contracting (selected contractor for Journeys and Saint Paul Music Academy)

Project scope

Select window replacements at:

- Journeys Secondary School (work completed in 2020)
- Wellstone Elementary (work completed in 2020)
- Saint Paul Music Academy

New this month

- **Journeys Secondary:** As of Nov. 20, window replacements have reached substantial completion.
- **Wellstone:** Substantial completion of window replacements was on Sept. 4.
- **St. Paul Music Academy:** Window work currently out for bid; Board of Education will review bids at their December meeting.

(**Riverview:** Window replacement has been postponed to the next funding cycle.)

December 2020 Project Financial Information

Original Budget	Committed Costs	Invoiced to Date	Construction Award	Construction Cost Changes	% Change	Total Forecasted Cost	Construction % Complete (as invoiced)
\$2,172,500	\$1,130,835	\$1,062,413	\$991,100	\$40,059	4%	\$1,130,835	98%

Project Timeline

Phase: <i>Planning</i> → <i>Design</i> → <i>Construction</i> →					
BOE Gate Check:	Five Year Plan	Project Charter	Budget Approval	Contract Award	Closeout
Key dates:	✓ Oct. 2018	☐ N/A	✓ Jan. 2020	✓ Feb. 2020	☐ Fall 2021

Window Replacements



From top to bottom from the Saint Paul Music Academy:
Elevation showing types of windows; example of leaking on exterior panels (November 2020)