

Portland Public Schools Ida B. Wells High School Modernization



WALKER MACY

Design Advisory Group Meeting #5 October 23, 2024



DESIGN TEAM HERE TODAY



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AGENDA

Introduction 00:03

Community Agreements 00:02

Where Are We Now? 00:10

Engagement and Outreach Updates 00:05

What We Heard at DAG Mtg #4 00:10

Sustainability Primer: Indoor Air Quality: 00:10

-Break 00:5-

Feedback Activity & Report Out 00:50

Closing/Next Steps 00:10

meeting notes from DAG #4 are posted on the PPS Bond website! BUT FIRST...

Bond Update

Past meetings on YouTube:

Oct. 8th Board of Education Meeting

Oct. 21st School Facilities Improvement Oversight Committee



Community Agreements



- 1. We embrace student-first thinking.
- 2. We approach conversations with curiosity and question our assumptions, understanding that multiple solutions or approaches can exist at the same time and all be true.
- 3. We assume positive intent and respect one another through our words and actions.
- 4. We understand that we all can't get what we want.
- 5. We encourage a variety of voices in our process, and make space for different communication styles and preferences.

Where Are We Now?



PROJECT TIMELINE

2019 Comprehensive Master Plan

2023-24 Comprehensive Planning

Schematic Design Design Development









TYPICALLY 18-24 MONTHS

We are are here!

Permit Documents

Ready for Construction!



PROJECT TIMELINE



FUTURE

Construction (Timeline TBD)

BUILDING PROGRAM & SIZE

TARGET GSF \approx 316,000 sf PREVIOUS GSF \approx 340,000 sf CURRENT GSF \approx 324,000 sf

AREA REFINEMENT: SMALL ADJUSTMENTS AND REFINEMENTS

PROGRAM REFINEMENT: METAL SHOP REMOVED INDEPENDENT HEALTH CLINIC REMOVED



SITE PLAN



SITE PLAN



Engagement and Outreach Updates



DESIGN CLUB



anything but the fein the ceilings the fields less boring people the repetitiveness new ceilings and walls









- " That looks very comfortable and fun maybe just in the back rest area put some pillows or something smooth."
- " That lime green seating thing looks strange and uncomfortable."





- " I like the wood and the different colors and the font of the letters, I don't know how I feel about the floor because it reminds me of the floor our building has now."
- Having the floor is the same pattern " as the walls kind of throws you off"

COMMUNITY LISTENING SESSIONS

- Affinity Group leaders and student leaders of color
- Gender Sexuality Alliance (GSA) club
- Muslim Student Association & Arab students
- Special Education teachers, staff, parents and caregivers
- Indigenous Alliance
- Parents of Color
- All After Bruce-led audiences

Email <u>rhonda@afterbruce.com</u> to sign up



What We Heard at DAG Meeting #4



LAST TIME: FEEDBACK EXERCISE, SCHOOL COMMONS

Key takeaways for creating welcoming and comfortable spaces:

- Incorporate Warm and Natural Elements
- Emphasize Natural Light
- Use Varied Seating Options
- Prioritize Human Scale and Proportions
- Ensure Accessibility
- Integrate Art and Color Thoughtfully
- Provide Inclusive Signage and Communication
- Create Flexible Spaces
- Balance Aesthetics with Functionality









Warmth and Natural Materials

The warmth of the **exposed wood** structure was generally loved. **Artwork**, especially student art, makes the space feel brighter and more personal.





Connection to the Outdoors

The **covered outdoor seating** area is seen as a major plus. The visual **connection** between the patio, the commons, and the courtyard is loved.





Daylight

The access to daylighting was both praised and criticized. Some people felt the **darker spaces** (upstairs) were more comfortable by being **cozy** and creating variety, others thought the materials should be **lighter to brighten** the space. Several people thought more **skylights** in the space would improve the daylight access.





Seating Variety and Flexibility

More diversity in the types of seating and atmosphere of seating is desired. **Movable**, **flexible** furniture is very important, but there is also a desire for more **built-in furniture to create zones** within the larger space. The slightly darker/smaller upstairs space felt cozy and quiet providing some seating variety.





Safety

Safety was brought up in light of two design features - the **large glass** windows into classrooms, and the railing at the double height space. **High tables** and chairs were generally seen as a safety concern.





Accessibility

The comments on accessibility emphasize the need for wheelchair access and **clear pathways** to ensure equitable navigation throughout the space. The density is also a concern with keeping wide circulation space available for accessibility. The **elevator should be easily visible** as a main connector between the two levels.





Functional Flexibility

This space should support the **everyday needs** of the school in addition to **special events**. Furniture and layout needs to accommodate both. The space should have plenty of **outlets** for charging personal devices **audio-visual** accommodations for events.





LAST TIME: FEEDBACK EXERCISE, SCHOOL COMMONS

How do these images align/ not align with the key takeaways?

Aligning:

- Warmth and Natural Materials
- Connection to the Outdoors
- Daylight

Not Aligning:

- Flexible and Varied Seating
- Daylight

Concerns:

- Safety
- Accessibility
- Functional Flexibility









Sustainability Primer: Indoor Air Quality



Designing Healthy Indoor Air



How Do We Measure Indoor Air Quality?



Background:

Standards and best practices around Indoor Air Quality (IAQ) have been recently changing based on the COVID-19 pandemic and new research around indoor air and learning outcomes.

PPS is committed to current design that will deliver high quality indoor air for school modernization projects.

These best practices are already incorporated into the design and cost estimates.



PPS and design teams received a letter from parents and community members regarding IAQ for new schools.

Goal

Provide healthy air in qualities that enhance academic performance and minimize pathogen transmission.

Air Change Per Hour (ACH)



The room volume of air that's replaced each hour



Air Change Per Hour (ACH)

Outdoor Air In



The room volume of air that's replaced each hour

Stale Air Out

But ACH is only part of the equation



More does not mean better

We need to focus on quality, not quantity





Filtration of Incoming Air

Outdoor Air In



MERV 14 Filter Removes smoke, pollen, and car exhaust

Indoor Generated Pollutants



CO₂, Odors, Pathogens Out



Indoor Generated Pollutants



CO₂, Odors, Pathogens Out



CO₂ Is a Holistic Air Quality Metric

CO₂ Is a Holistic Air Quality Metric



High CO₂ Air Out



CO, Is a Holistic Air Quality Metric



CO₂ should remain ~800 ppm We are designing for this value

CO₂ Is a Holistic Air Quality Metric



CO₂ that is too high (>1000 ppm) will reduce academic performance and increase risk of pathogen transfer

CO₂ Is a Holistic Air Quality Metric



CO₂ that is too low (<700) is unnecessary since is will increase energy use without offering additional health benefits.

CO, is a Holistic Air Quality Metric

Max CO2 PPM vs. Scenario



Scenerio

CO₂ is a Holistic Air Quality Metric

Max CO2 PPM vs. Scenario



We're designing for a CO₂ concentration of ~800 ppm

Here's the formula



Heating and cooling systems are decoupled from ventilation.

Stale Air

Energy Recovery Ventilator



A CO₂ Meter in classrooms will confirm indoor air quality



This design will eliminate the need for portable air scrubbers, even during a future pandemic



A note on ACH_e:

More filtration cannot provide more oxygen



Operable windows in classrooms can decrease CO₂ and airborne pathogens further as needed



In Conclusion

Tout - Tin



Break!

Feedback?





Feedback Activity: A Day in the Life



FEEDBACK ACTIVITY - A DAY IN THE LIFE

- Divide into groups of 5 or 6 people.
- Individually read the 1st scenario on the handout.
- As a group, discuss and answer the question for that scenario.
- Choose 1 person from your group to report out to the larger group on this scenario at the end.
- Repeat for scenarios 2-4.

Feedback?



FEEDBACK ACTIVITY - A DAY IN THE LIFE

Report out

1 person from your group report out about each scenario

Feedback?



Next Steps





Schematic Design Documents Cost Estimate Completed mid-November

Listening Session Recruitment Ongoing

DAG Meeting #6 December 4th

Community Design Workshop December 8th

Feedback?

