



# President's Advisory Council

Reimagine **possible**

June 17, 2020

Built Environment and Infrastructure

Janelle Johnson, Metza Templeton, Louis Morpew,  
Carl Messe, Andras Greg, Amy Kern, Gabriel Christie,  
Jeno Balogh

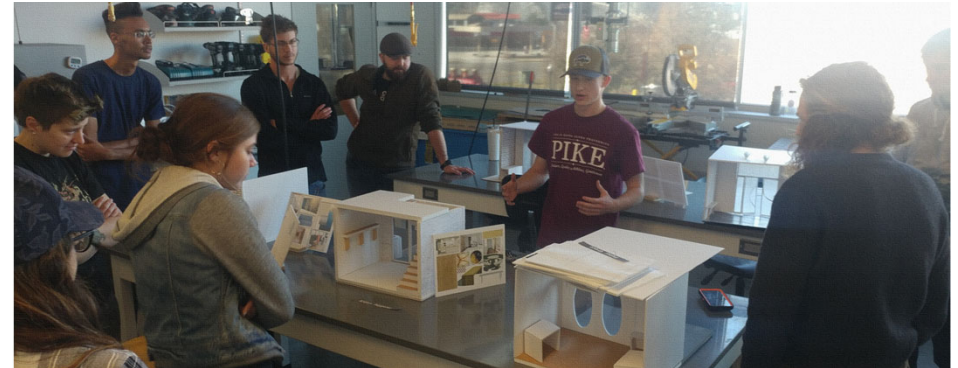
# Recent Actions & Accomplishments

- Stakeholder Involvement Report \_\_\_(Janelle Johnson)
- Recommended Configurations \_\_\_(Jeno Balogh & Andras Greg)
- With a Post-Covid campus in mind \_\_\_(Amy Kern)
- Signage\_\_\_ (Louis Morpew)
- Accessibility\_\_\_ (Metza Templeton)

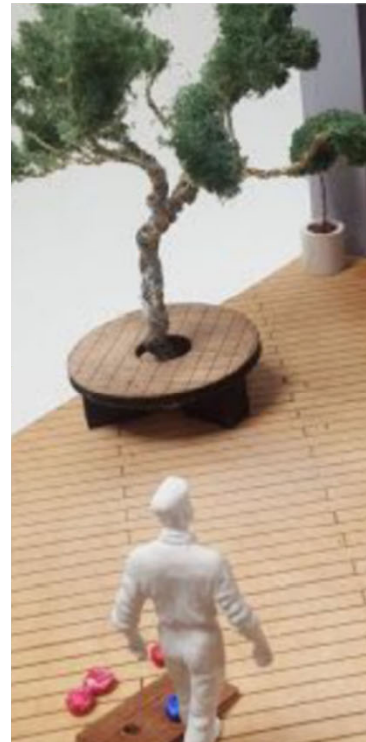


# Industrial Design Model Making Students

40 current students envision WC  
With 50+ architectural models

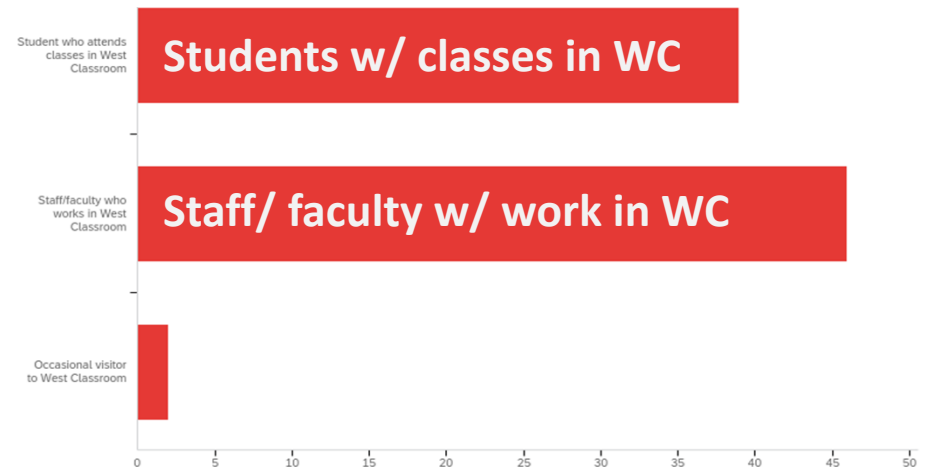


The goal is to clean, comfort modern space students to b



# Stakeholder Survey (n=85)

*Please rank the following aspects of the West Classroom Building in order. Ranking the item higher on the list means you feel it is more important and/or urgent to address.*



#	Field	Minimum	Maximum	Mean	Deviation	Variance	Count
1	Welcoming vibe	1.00	9.00	5.49	2.39	5.71	85
2	WiFi	1.00	9.00	3.39	2.28	5.20	85
3	Student work spaces	1.00	9.00	3.76	1.90	3.62	85
4	Classroom technology	1.00	9.00	4.33	2.32	5.40	85
5	Bathrooms	1.00	9.00	3.96	2.45	5.99	85
6	Signage/how to find rooms and offices	1.00	9.00	6.02	2.08	4.33	85
7	Accessibility for students with mobility/vision issues	1.00	9.00	4.69	2.31	5.34	85

# Focus Group

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## Participants:

- Professor who's worked in West Classroom for many years
- Student who takes classes in WC and also works in Office of Orientation. They hold a lot of registration events and portions of orientation in West Classroom
- Student who takes classes in WC
- Associate Professor who's worked in WC for many years

## Methodology:

- Introductions by the group; assurances that data would be anonymous; 30 minute time limit
- Shared online survey demographics (n=85; approximately half students and half staff/faculty) with the group
- Reviewed methodology of online survey, asking respondents to rank importance of issues in WC (top three responses were WiFi, student work spaces, and bathrooms) and open-ended response
- Shared survey data with focus group participants to generate examples and supporting evidence

## Themes that emerged:

- Wifi and cell phone reception
- Student/staff/faculty spaces
- Classrooms (general)
- Bathrooms
- Technology
- Inclusivity and accessibility
- Signage and wayfinding

## Student Lounge

“it's almost always full of students during the day who are up there actually studying. It's also really important because one of the things that we've talked about at MSU Denver is that our students sometimes don't have an identity with the university because they're all commuters- but that's one place where students do come together and they study together.

And I think it's really important to have appealing student workspaces where students can work together and just study.”

## Bathrooms

“I think the **bathrooms are disgusting** and we don't have hot and cold running water. They just put it in paper towels but there's no place, the towels are all over the floor because it wasn't really designed to have the towels in there but it gives students a message about what we think about them when we expect them to use wretched bathrooms.”

## Classrooms

“I think the classrooms that are located in the middle don't have windows or anything, they're very hard to be in. I have two ‘back to back’ three-hour classes in the same room, which has no windows. I don't know if there would be a way to redesign the building to make sure that each class has a window, maybe some way to open it up, brighten up the space would make it a lot more inviting to be in I guess.”

## Signage & Wayfinding

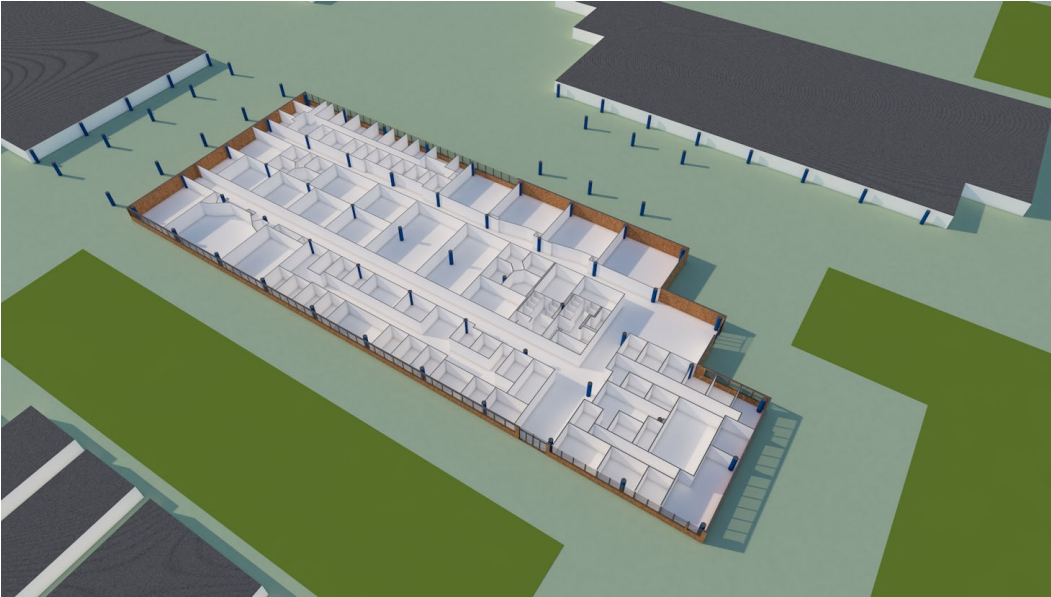
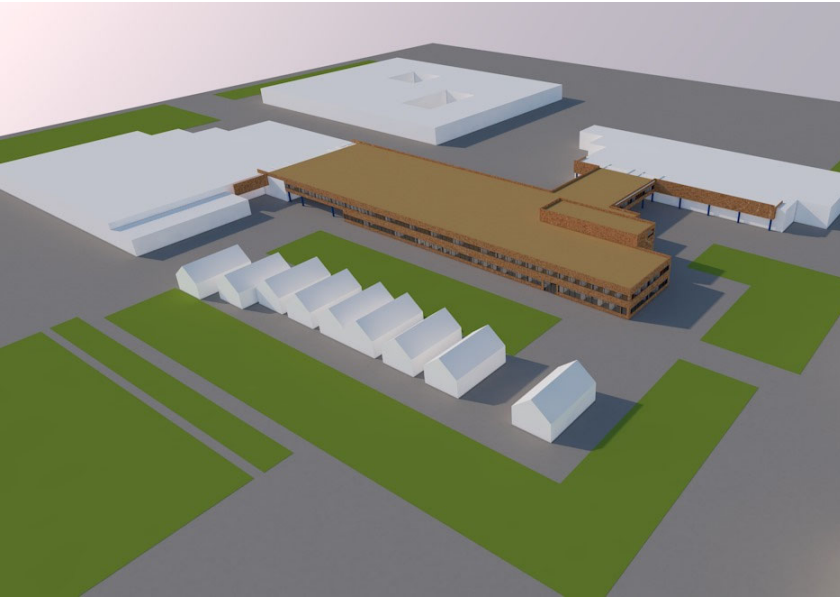
“From an orientation standpoint, I think West is one of our hardest buildings to kind of lead our students through. At the end of the orientation we typically take students to computer labs throughout campus. The biggest one is probably West and when students leave they don't really know how to exit the building because it's so confusing We have incoming students and that's one of their first kind of views of MSU, being in a really cramped computer lab.”

## Inclusivity & Accessibility

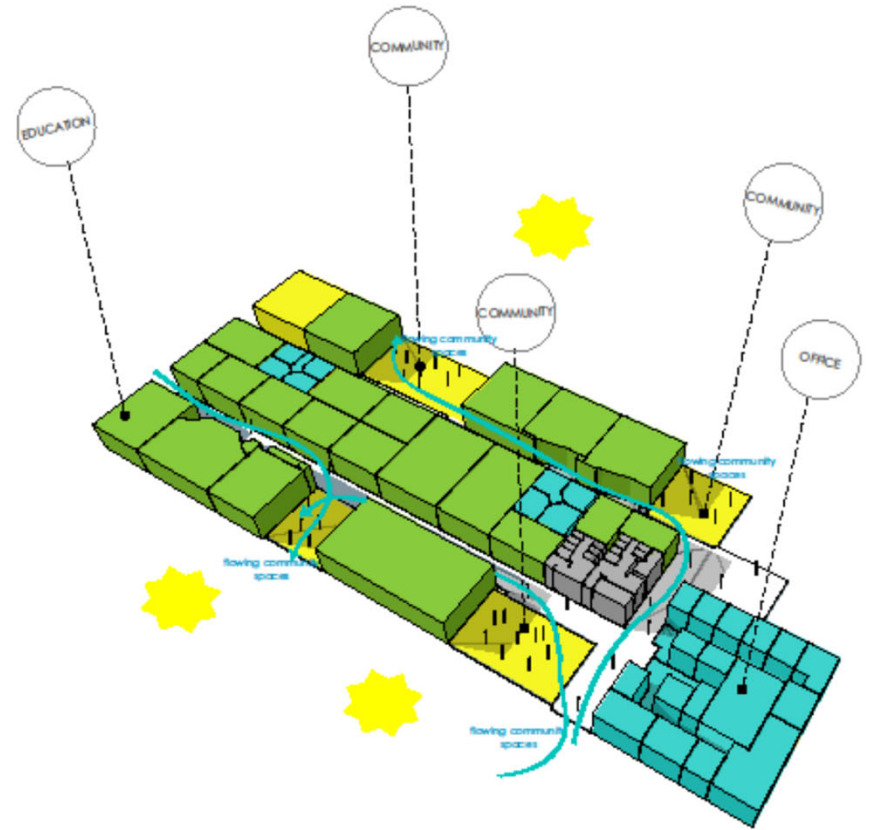
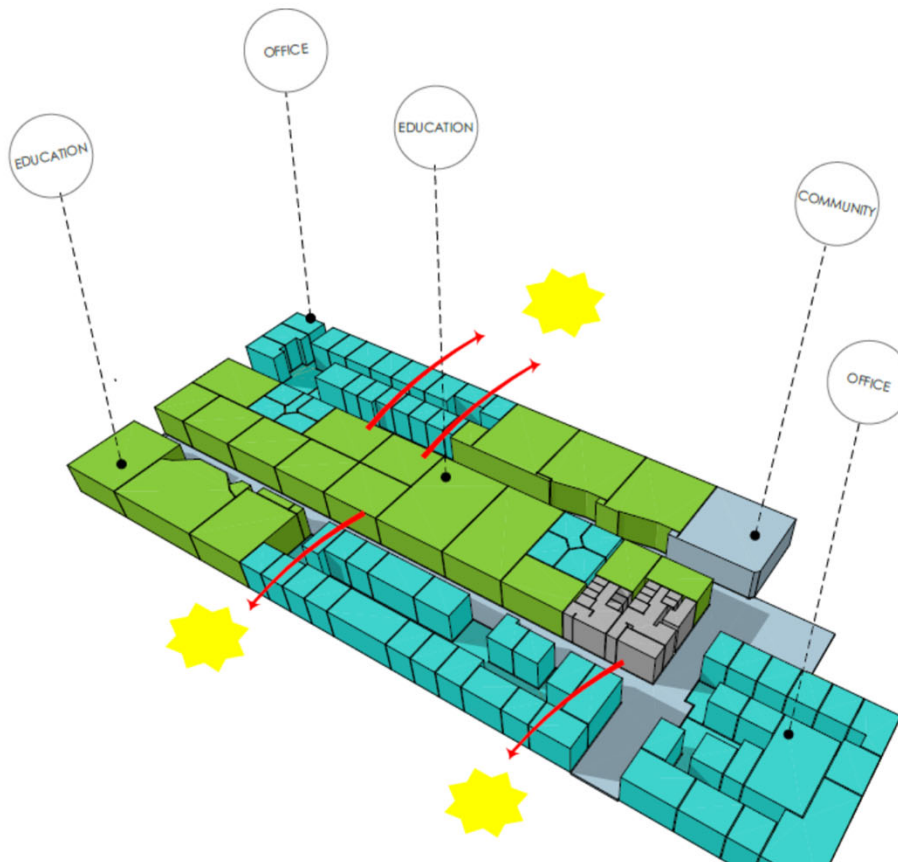
“I know that we've had a few incoming students ask for gender inclusive restrooms when we were in West and telling them that we don't really have any, it was kind of embarrassing. So I think that that comment on gender inclusive bathrooms is very, very important.”

“I have a quadriplegic student in that building and this is just a maintenance thing that the handicap doors often do not work in that building ... I really feel for him. He has to travel around a lot trying to find a door that will actually open, I mean because being a quadriplegic, he can't really hit those things really hard. It's difficult sometimes for him to get into that building.”

# West-Classroom Building 3D Model



# West-Classroom: Recommendations



## PROGRAM

- Expanding the small number of community spaces
- Opening dark corridors to natural light
- By removing just a few partition walls
- By rethinking interior design

## RESULTS

- Re-arranged floor plan
- Student-friendly community spaces
- Natural light in public spaces



# West-Classroom: Reconfigured



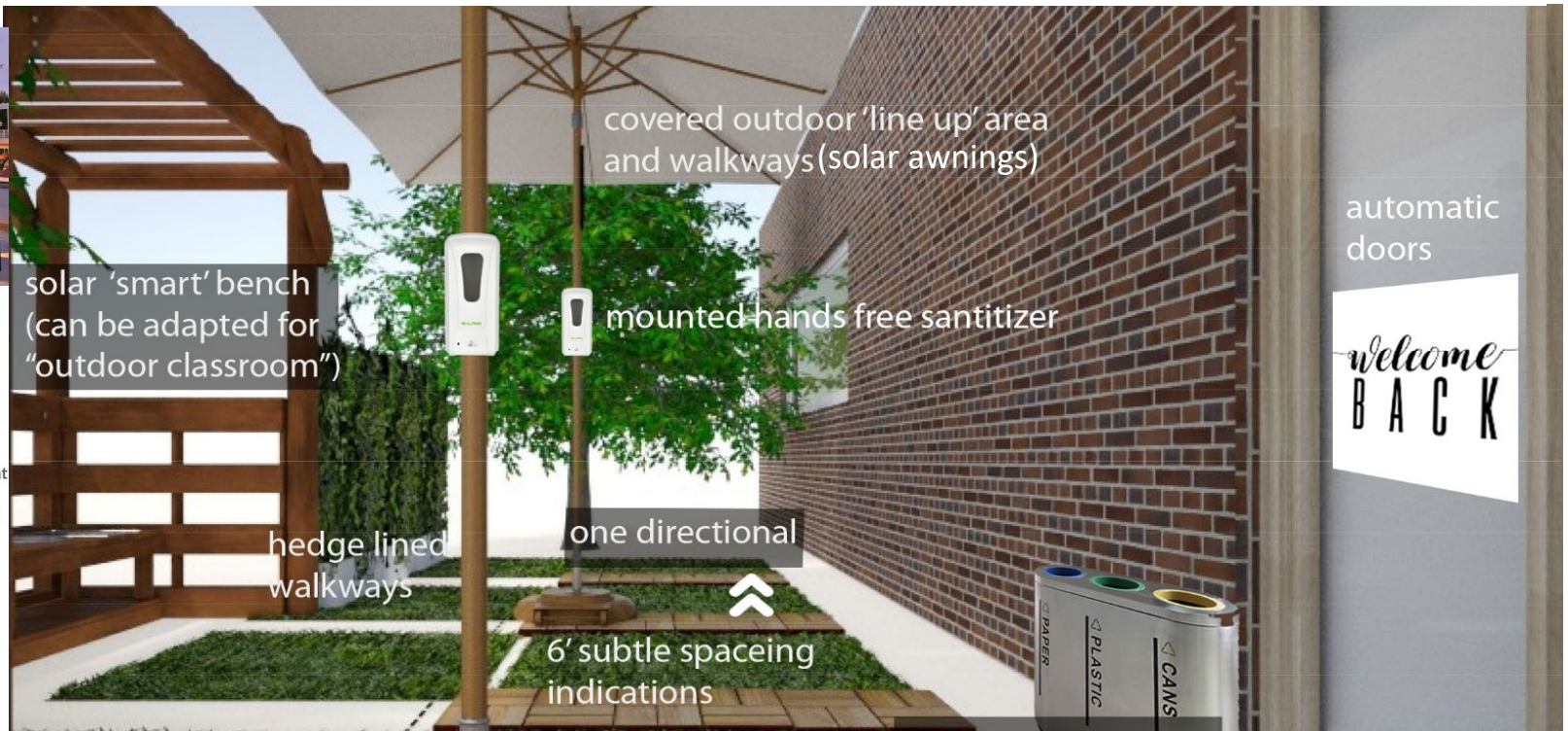
# West-Classroom Post Covid

key considerations

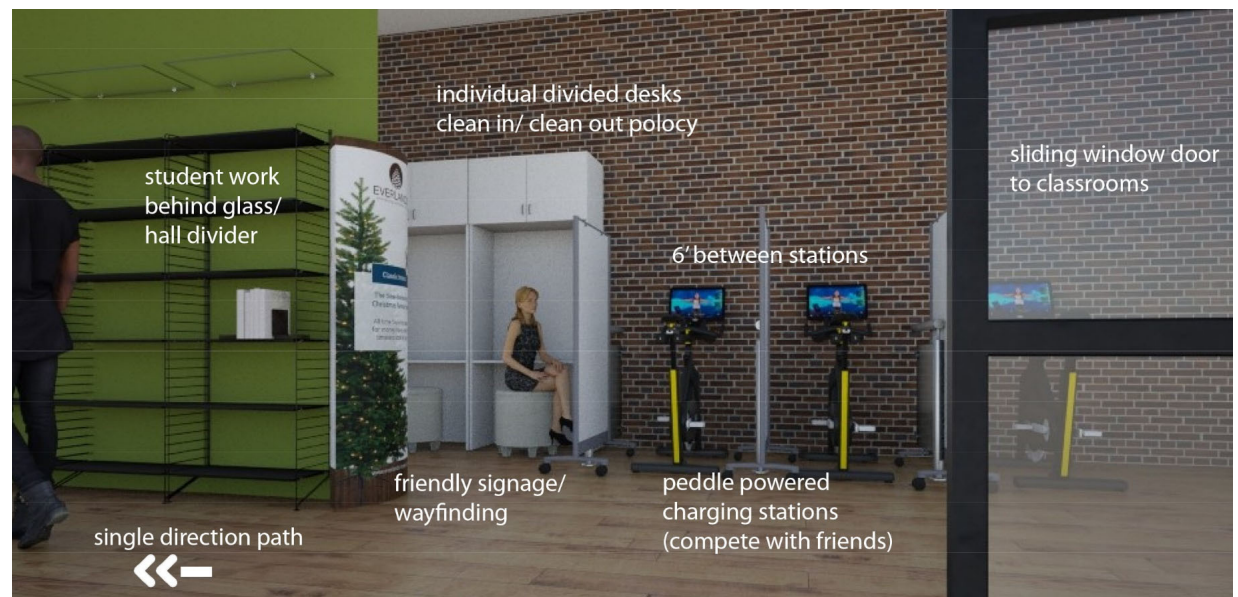
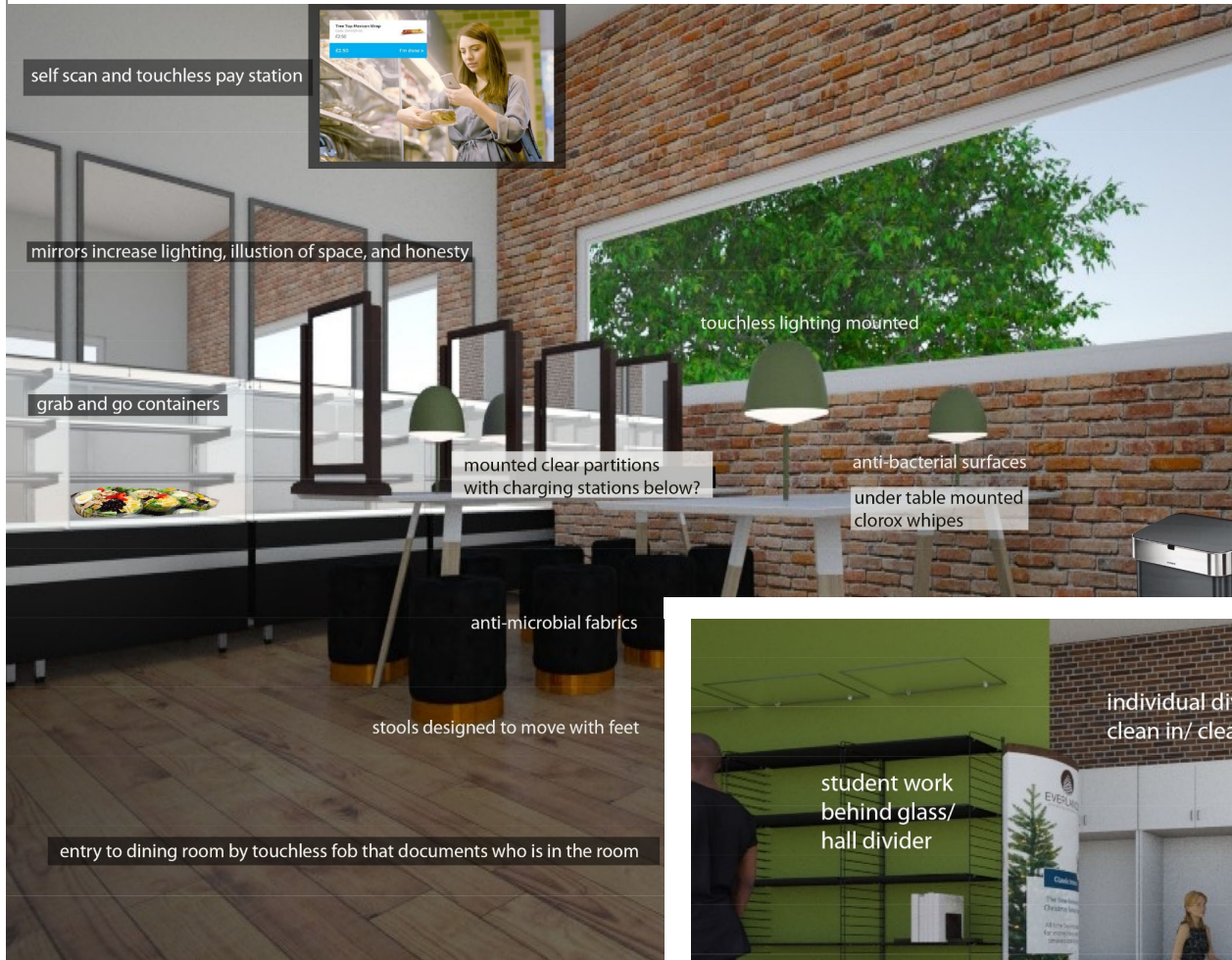
- Design for adaptability and flexibility as circumstances change
- Add division with screens, panels or multipurpose barriers
- Reduce barriers to use independent tech (improve wifi / add charging stations)
- Provide friendly, consistent visual cues for safety and clarity
- Design for disinfecting & for hands free scenarios
- Design for Hybrid Community interactions
- Inclusivity- everyone has equal levels of safe participation



- Powered by solar energy
- Storing energy for days when there is no Sunshine and during night
- Sensors for CO<sub>2</sub>, noise, temperature humidity and air pressure
- Wi-Fi spot
- USB charging ports, charging cards, wireless charging
- Place to rest and socialise

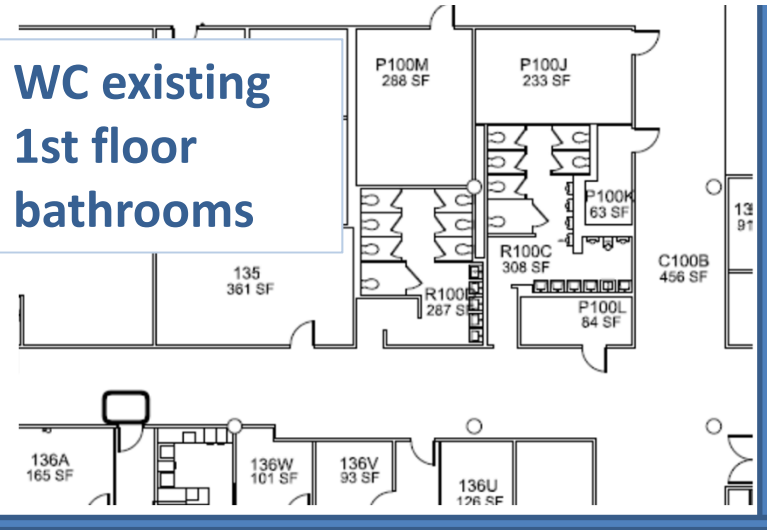


# West-Classroom Post Covid



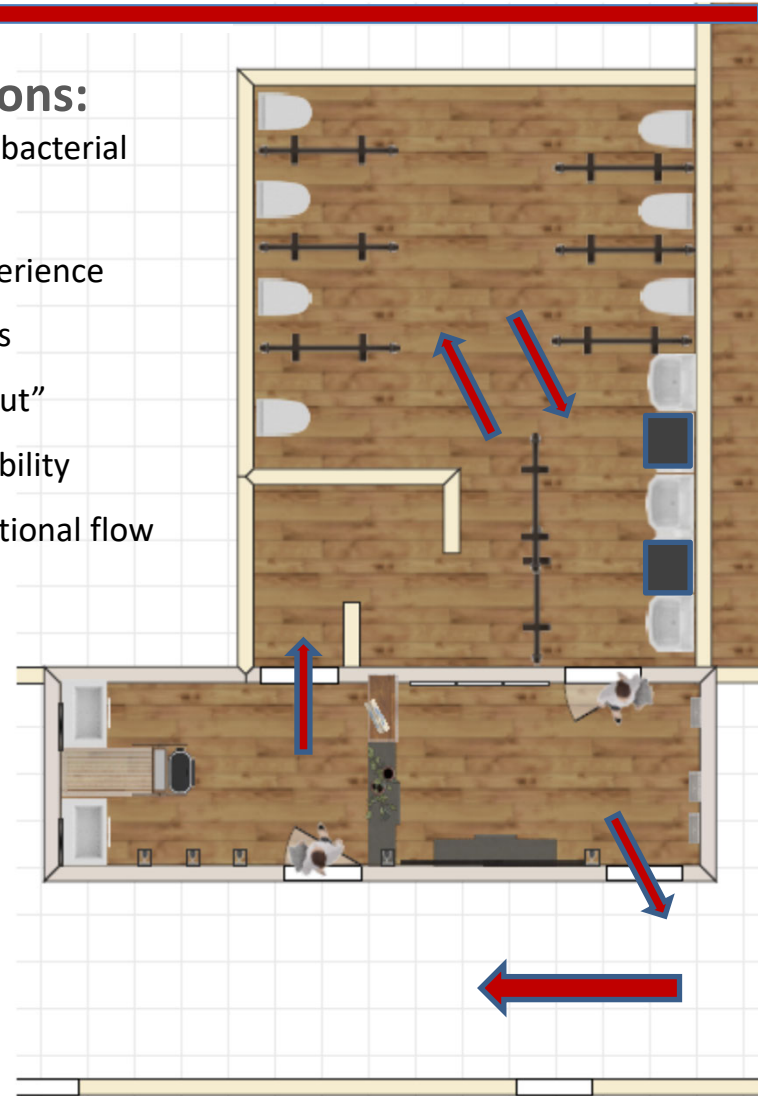
# West-Classroom Post Covid Bathroom

## WC existing 1st floor bathrooms



## Key considerations:

- Antimicrobial & Antibacterial wallpaper
- “Powder-room” experience
- Swing Doors on stalls
- “Clean-In”/”Clean-Out”
- Mirrors increase visibility
- Area to wait & Directional flow



Proposed NEW  
Addition and Exit



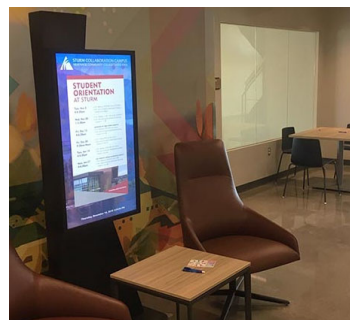
# Outdoor Digital Signage

- Replace printed outdoor maps with digital signs. Repurpose metal canopy stand if possible.
- Prominently and boldly display the building name and address. Show West Classroom specific content. Optional touchscreen or voice-activated content control to view campus info, wayfinding map, etc.
- Quantity = 2, one at each entrance
- Budgetary Price = \$50,000 & Timeline: 3 months



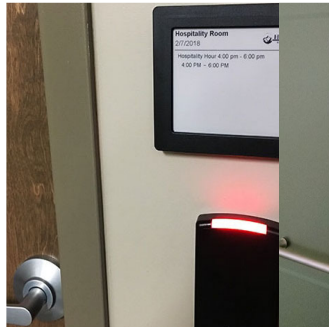
# Indoor Digital Signage

- Replace/supplement printed indoor signs in the two student lounges.
- Wall mounted and/or floor stands. Show West Classroom specific content – event schedules, calendars, class changes and cancellations, etc. Show campus messages, health and safety info. Optional voice-activated content control.
- Quantity = 8, four in each lounge
- Budgetary Price = \$40,000 & Timeline: 2 mo.



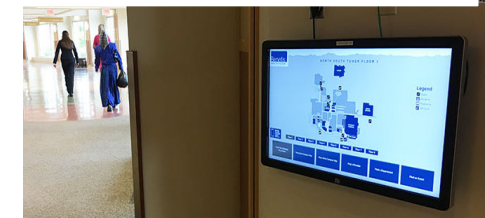
# Room Digital Signage

- Replace paper room signs with electronic paper (e-ink) on all classrooms and meeting rooms.
- Wireless, battery powered electronic room signs display the upcoming class/meeting schedule or in progress.
- Quantity = 40, one outside each room
- Budgetary Price = \$25,000
- Timeline = 2 months



# Wayfinding Digital Signage

- Replace printed maps with interactive wayfinding displays.
- Touchscreen and voice-activated content control to navigate the West Classroom and quickly find a destination. Select a directory and see your destination highlighted on floor maps. Get turn by turn directions sent to your mobile phone and/or audibly announced for ADA compliance.
- Quantity = 2, one for each entrance
- Budgetary Price = \$60,000 & Timeline = 6 months



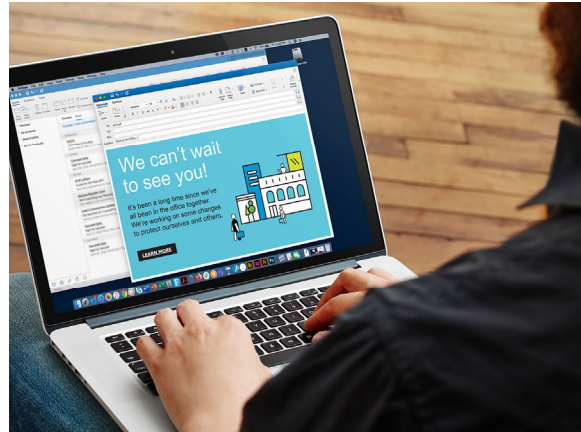
# West Classroom Digital Signage Summary

- Total Budgetary Cost = \$175,000
- Prices include displays, touchscreens, mounts, enclosures, software, content development, training, support and installation. Power and data cabling are additional.
- 8 months for project completion.
- 100% turnkey deployment by Visix



# Accessibility Considerations

- Prepare all students with new protocol information that is accessible
- Remove all barriers to technology (signage, language, visual impairment, etc.)
- Cleaning wipes and sanitizers accessible to everyone
- Make sure faculty are also accommodated (chairs, mobile screens, etc.)
- Modify existing chairs





# Q&A

Thank you from Built Environment & Infrastructure

Janelle Johnson, Metza Templeton, Louis Morpew, Carl Messe, Andras Greg, Amy Kern, Gabriel Christie, Jeno Balogh



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OF DENVER