

# CPT\_S 484 - Phase II: Presentation

---

Team Theia:  
Logan Cribbs, Yaru Gao, Chandler Guthrie, Matthew Hill,  
Julian Hutchins, Erik Winiski

# Scenario 1

## AS-IS:

- Josh is trying to go from his office at work to the restroom. The restroom is on a different floor of the building, so he needs to use the elevator. He remembers the way to the restroom.
- However, the restrooms were renovated and are now on a different floor entirely.
- Josh is now going to the wrong location for the restroom.

## TO-BE:

- The Theia app will ask Josh to give his current location and the destination.
- The app will calculate the route, detect there has been a change to the location , and ask if he needs assistance to the new location.
- Theia will then navigate Josh to the correct location.

# Scenario 2

## AS-IS:

- Bobby was walking to a indoor coffee shop to get some coffee.
- Once arriving at coffee shop he receives coffee and while walking to make a call.
- He trips over a broken tile in the floor and drops his phone saving the coffee.
- Bobby lost his phone and has to search the area for it without knowing where it is.

## TO-BE:

- Bobby opens the Theia app in the background as he knows where the coffee shop is.
- Bobby gets the coffee, tries to make a call but then trip on broken tile saving the coffee but dropping the phone
- The Theia registers that there has been too much jerking of its sensors and plays a ringtone and vibrates.
- Bobby goes towards the noise of his phone and finds it immediately.

# Scenario 3

## AS-IS:

- Sara is new to her school and needs to find a classroom she has only ever gone to once. She knows how to get to the help desk from where she is currently located.
- She is shy and attempts to ask one of the staff if they could help her find her classroom.
- However, she couldn't build up the courage. Instead, she feels confident in finding the classroom based on previous knowledge.
- She ends up lost and does not know where to find help.

## TO-BE:

- Sara will tell the Theia app that she is lost and needs assistance.
- The Theia app will detect if she is close to/in a room, or if she is on the way to a destination.
- If Sara is not close to/in a room, assistance will be sent to her location. Otherwise, if she is, a chat window between her and assistance will be started.

# Scenario 4

## AS-IS:

- Harry is on his way to the terminal assigned to him in the airport.
- Harry uses his walking stick to travel the tactile paving setup
- As he is walking forward using his walking stick it goes in between a person's legs not detecting them there.
- This bad timing causes a accident between the person and himself which creates commotion.

## TO-BE:

- Harry opens the theia app and holds the camera in front of him while in navigation mode and heads towards the terminal in the airport.
- As he is navigated by the theia app a person appears in front of him.
- Theia notifies to Harry that a object is closely in front him.
- Harry stops for a moment until Theia says its clear to keep moving forward.
- Harry continues to the terminal without any problems

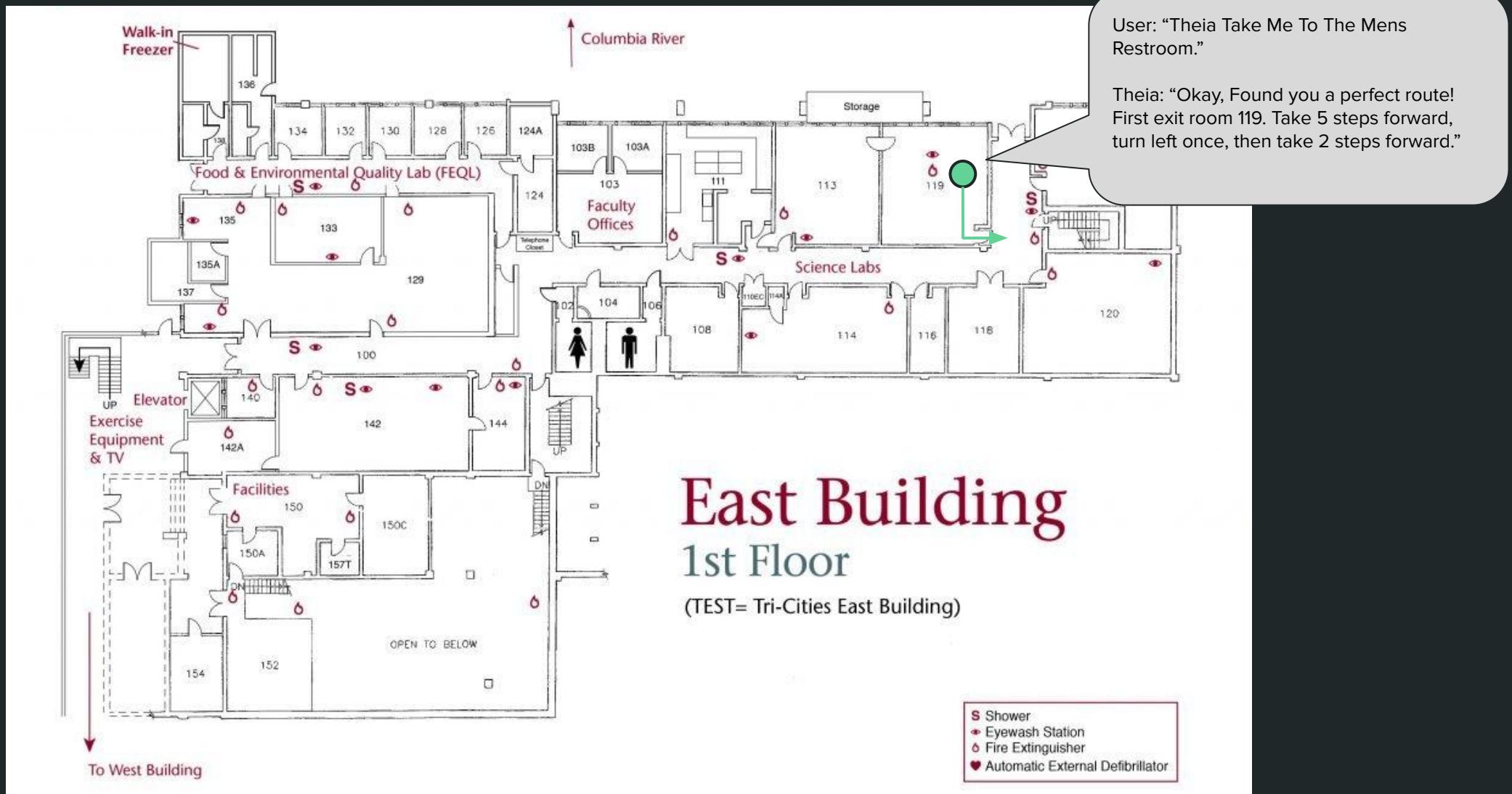
# Theia App During Navigation



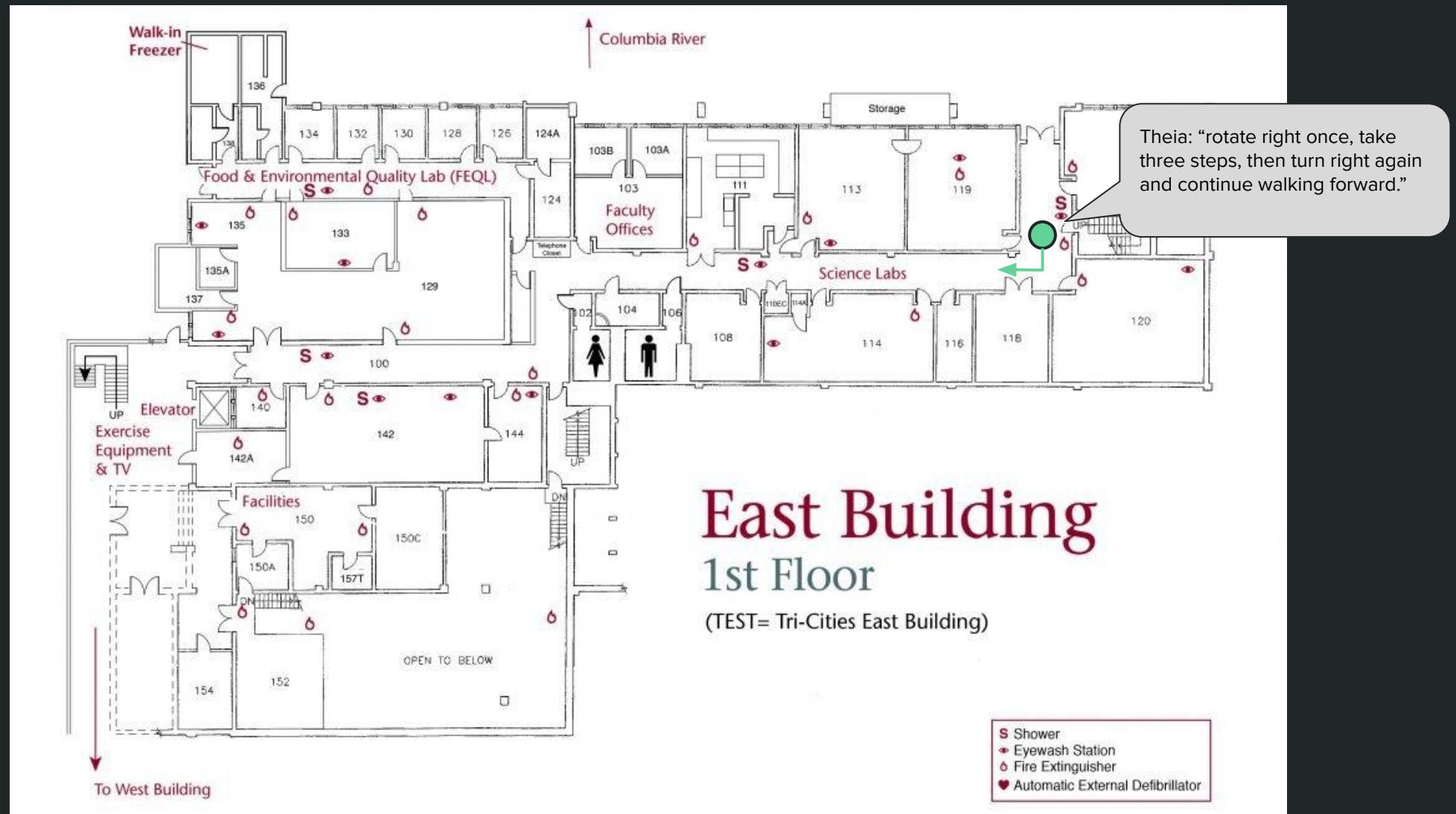
User



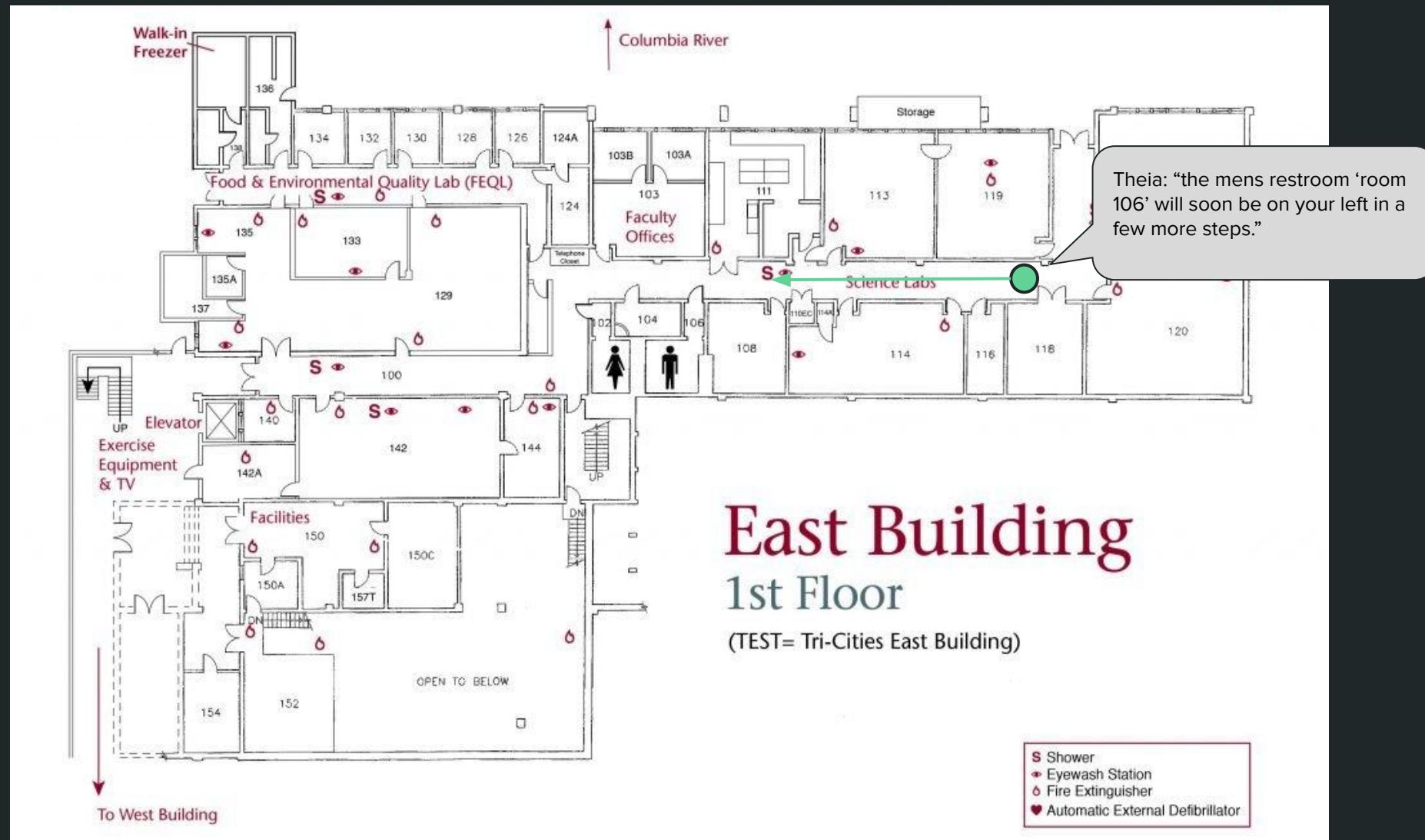
Direction



# Theia App During Navigation



# Theia App During Navigation



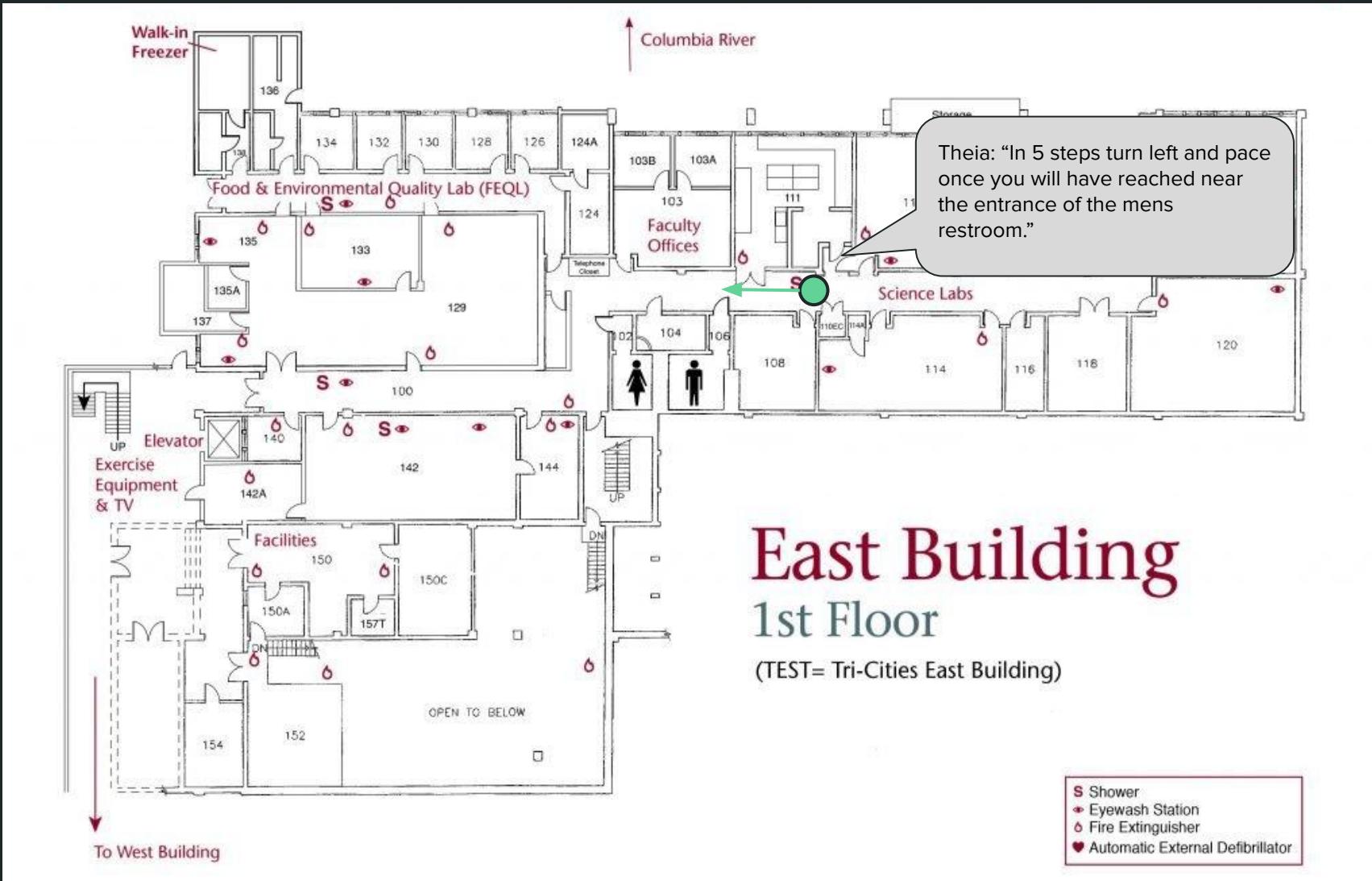
# Theia App During Navigation



User



Direction



# Theia App During Navigation



User



Direction

