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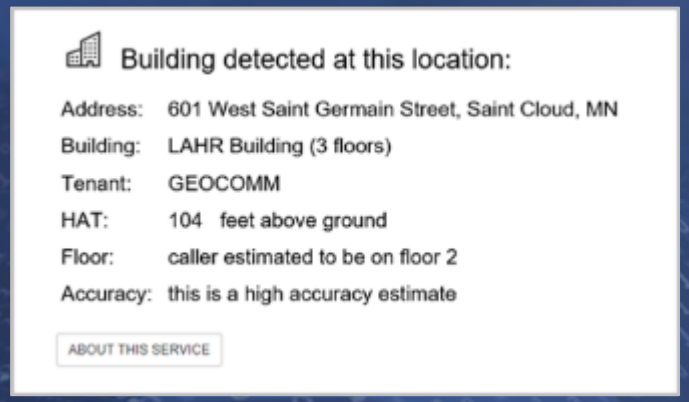

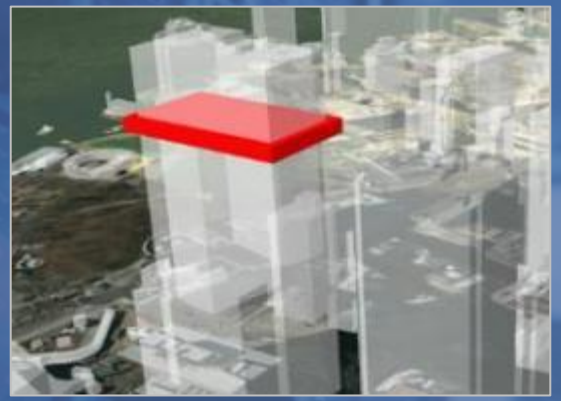

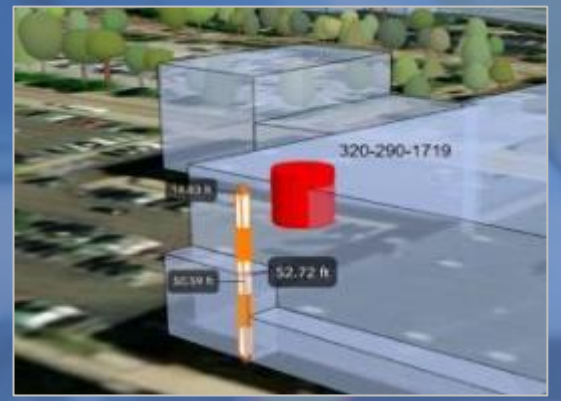

Using Z-Axis and Indoor Maps to Locate 9-1-1 Callers Faster

October 26, 2023

601 W Saint German ST
Floor 2
Room 202
Saint Cloud
Minnesota

Latitude: 45.567066°
Longitude: -94.183014°
HAE: 200 m

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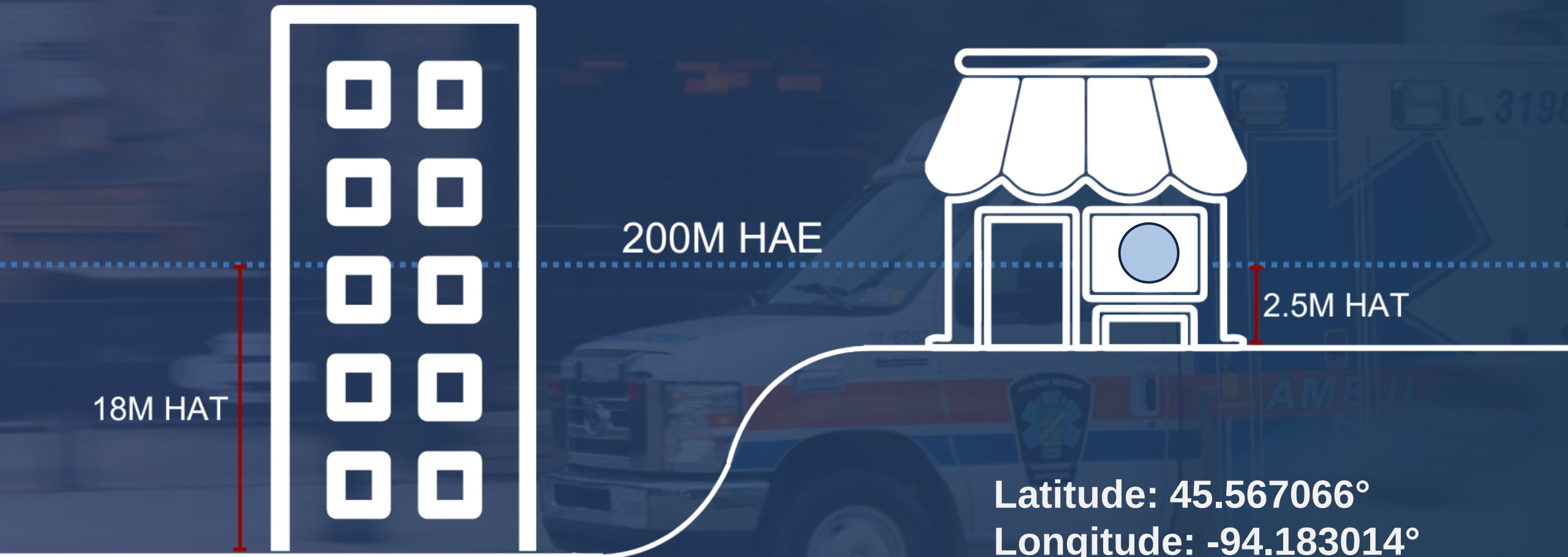
Translating Height Above Ellipsoid (HAE) into a Caller Location



Latitude: 45.567066°
Longitude: -94.183014°
HAE: 200 m

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Definition of Dispatchable Location:

Dispatchable location is the validated street address of the 9-1-1 calling party, plus additional information such as suite, apartment, or similar information necessary to adequately identify the location of the caller.

For 9-1-1 calls placed from multi-story buildings or campus environments, dispatchable location will typically require specific floor and room information in addition to the street address.

FCC FAQ

Why is a dispatchable location important- 2D Example

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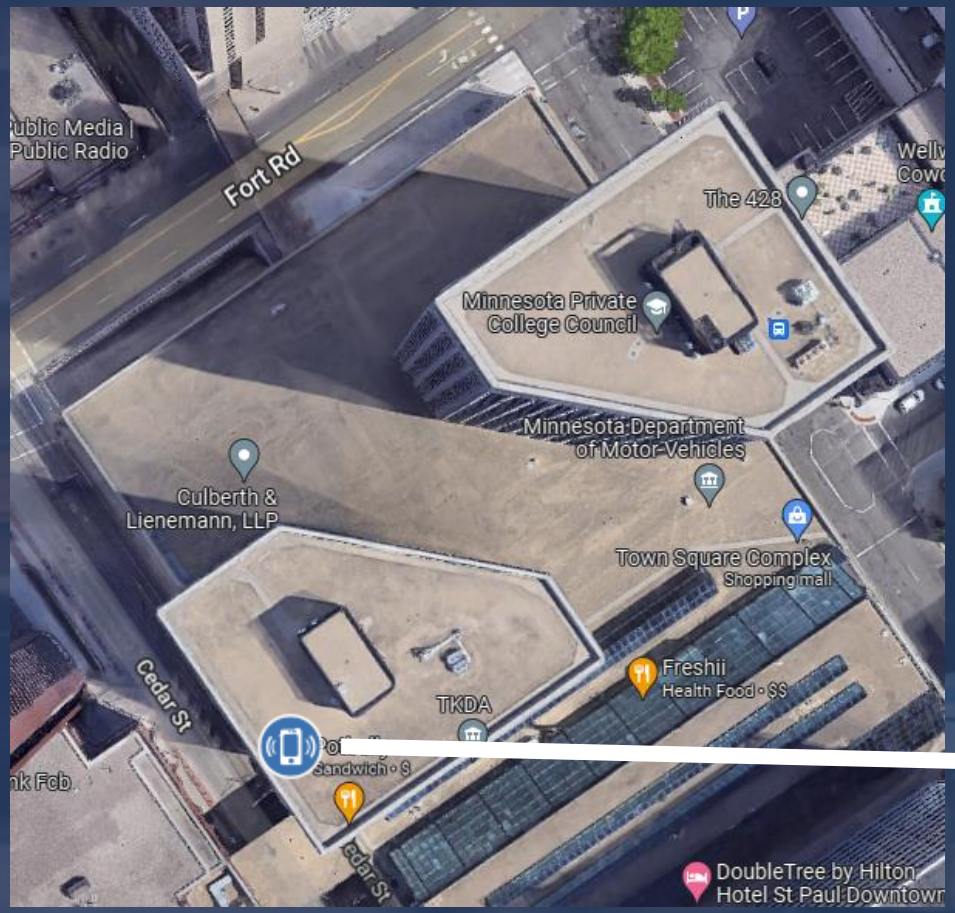
Why is a dispatchable location important- 3D Example



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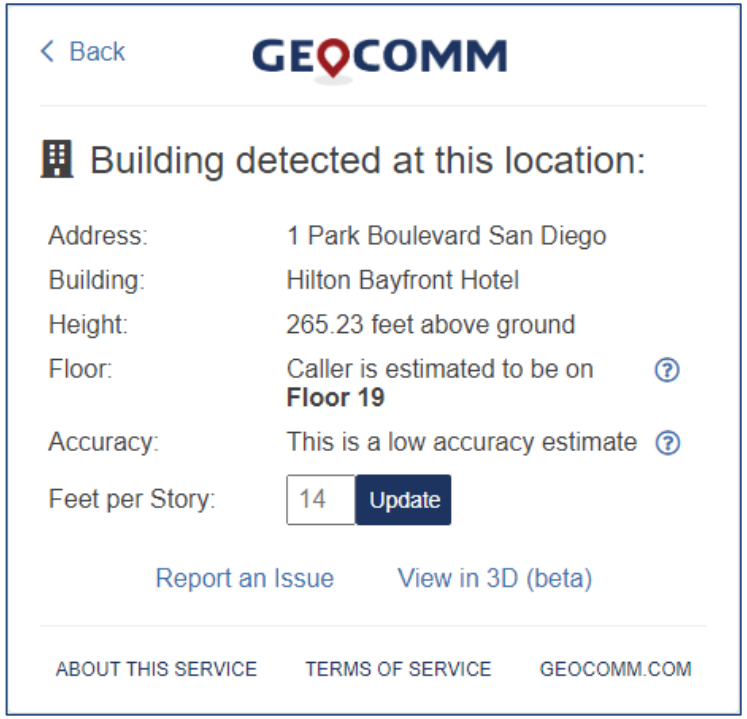
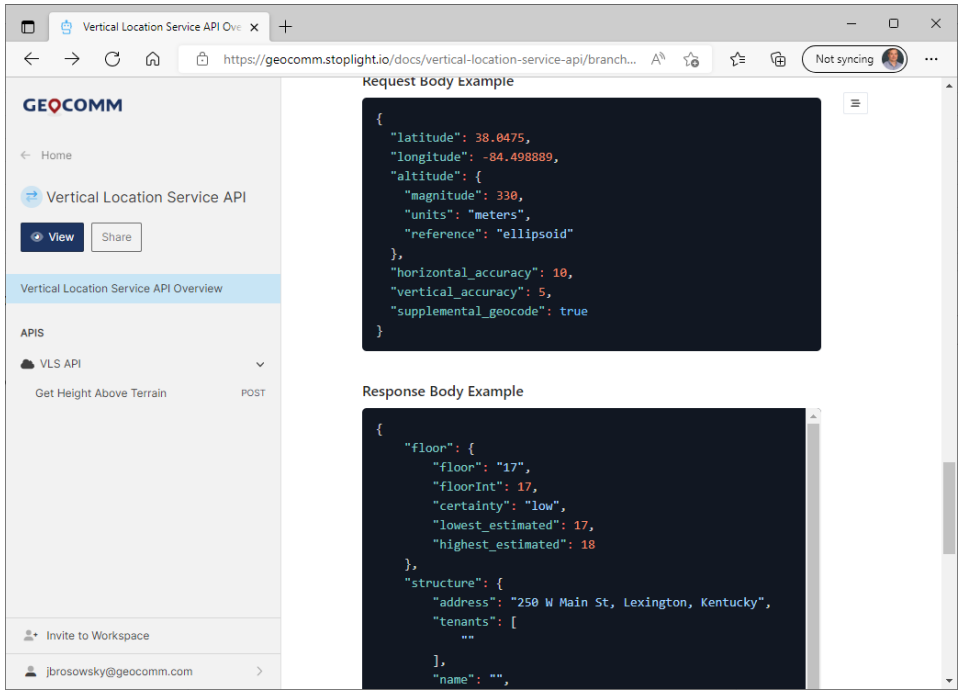
Delivering a Dispatchable Location

Vertical Location Services converts latitude, longitude, and height above ellipsoid or orthometric height into dispatchable locations comprising height above ground, estimated street address, building name, and floor level, along with 3D building and 9-1-1 caller location visualization:

Open a web interface via URL parameters:



An application can call the GeoComm VLS API directly:

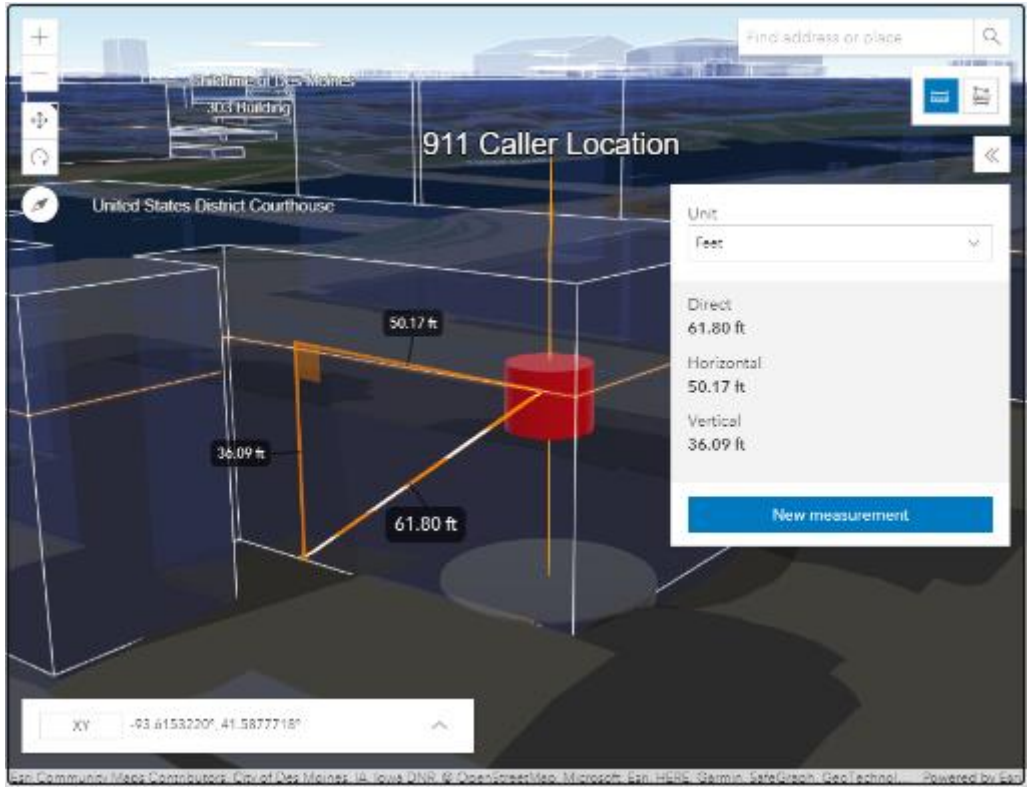


3D Mapping of 911 Call Data

Tactical 9-1-1 caller visualization and mapping. Can run stand-alone or integrated into existing 9-1-1, CAD, and responder solutions.

3D Tactical Tools

3D tactical mapping and visualization of 9-1-1 caller location including 3D measuring tools and interactive line of sight calculation.



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Local 3D WebScenes

Include locally created Esri 3D Webscenes into 3D View from your local LiDAR fights, feature tags, and 3D Mesh data.

< Back GEOCOMM

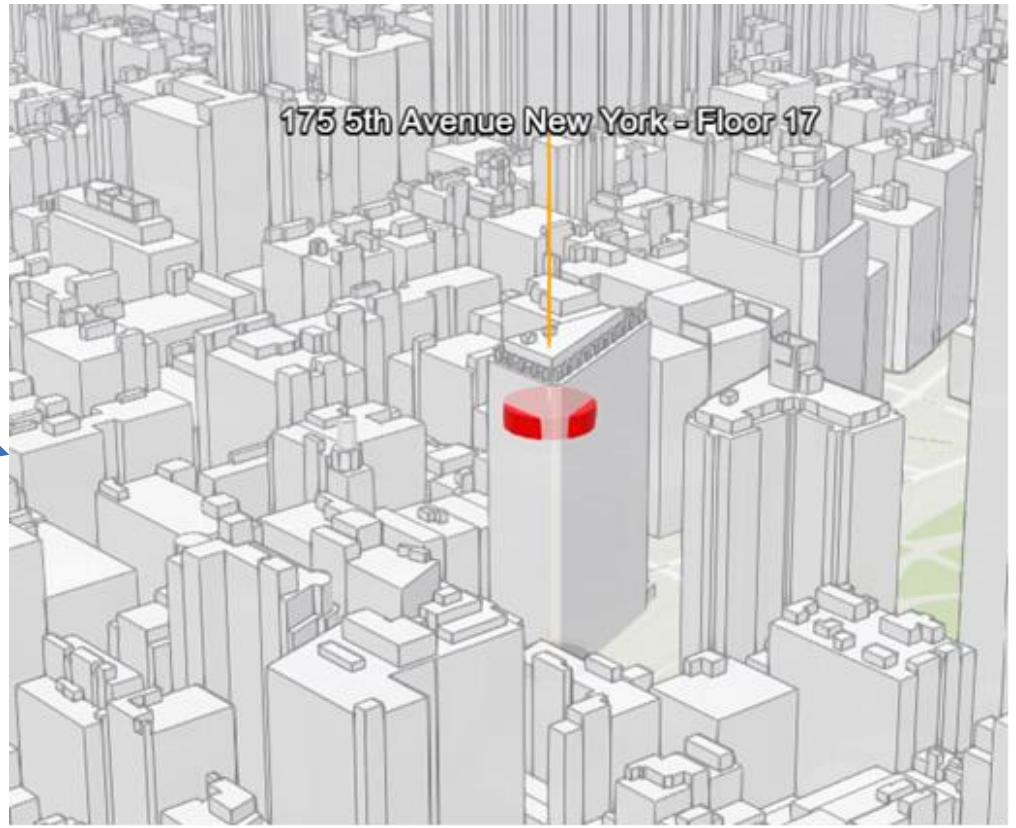
Building detected at this location:

Showing results near 40.7409 , -73.9897 ↔ *82 feet*

Building:	Flatiron Building
Address:	**175 5th Avenue New York Floor 17**
Height:	229.13 feet above ground ↕ 20 feet
Floor:	Caller is estimated to be on **Floor 17** *(Likely range: Floor 16 - 17)*
Accuracy:	This is a low accuracy estimate
Feet per Story:	14 Update

View in 3D (beta) View Indoor Map Provide Feedback

ABOUT THIS SERVICE TERMS OF SERVICE GEOCOMM.COM



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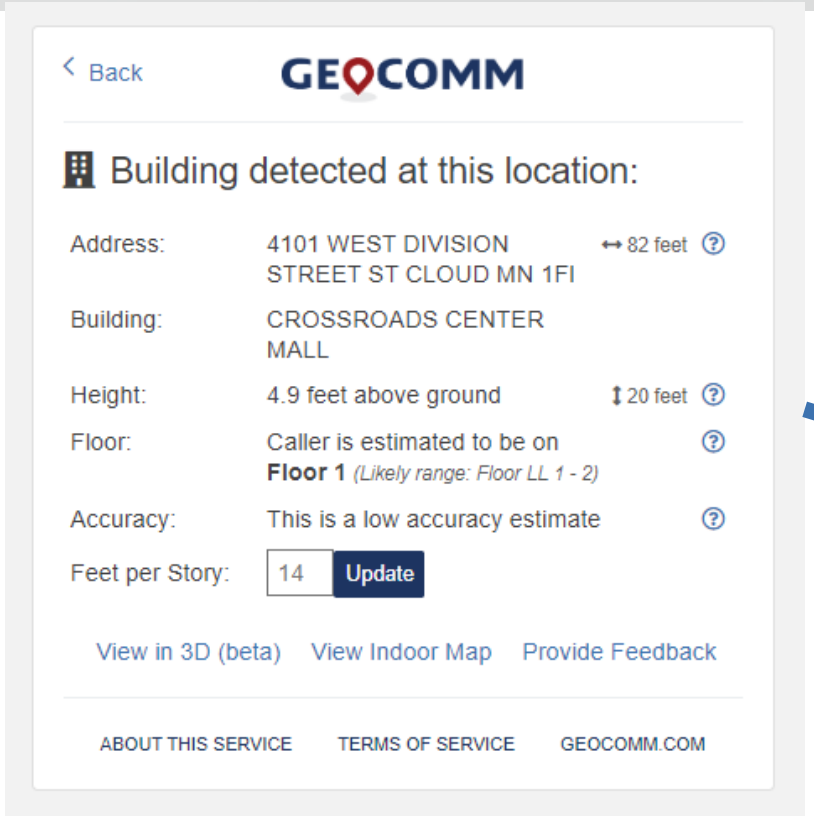
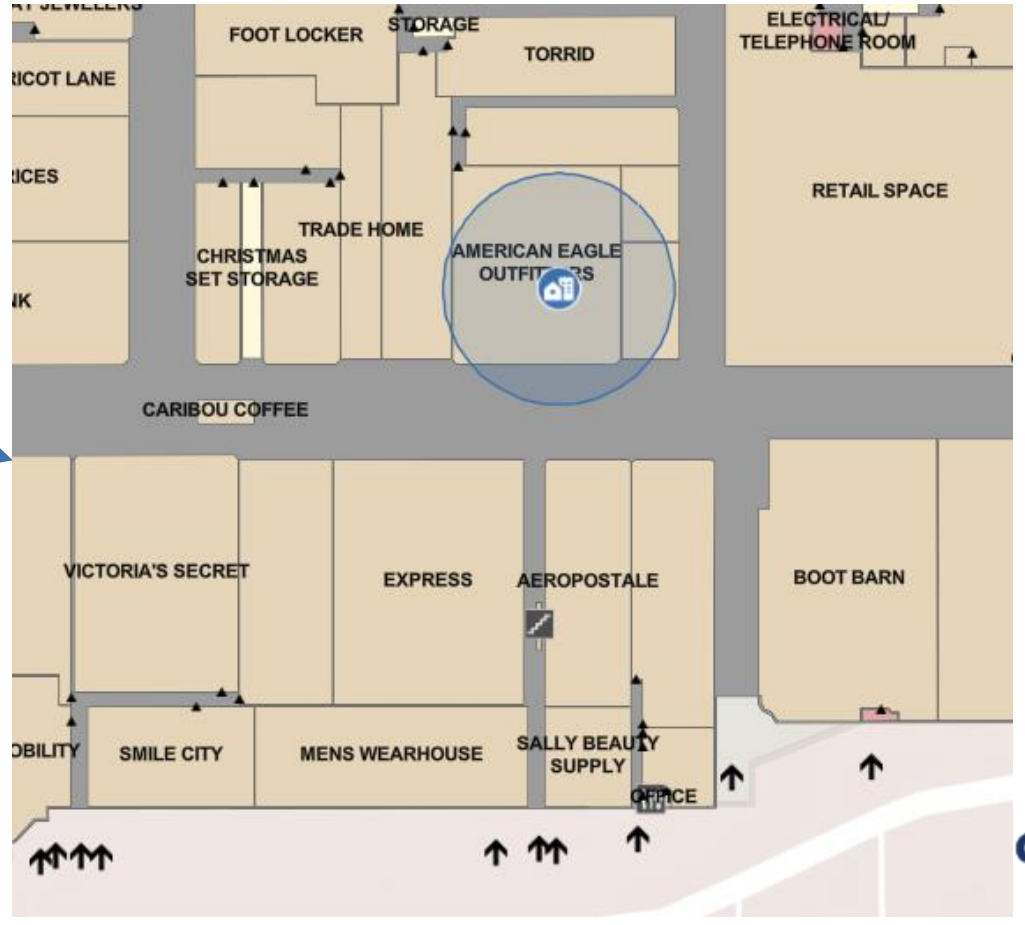
Z-Axis and Indoor Maps

Integrate with Locally Authoritative Data, including GeoComm Indoor Maps, to improve accuracy of the translation, along with important contextual information.





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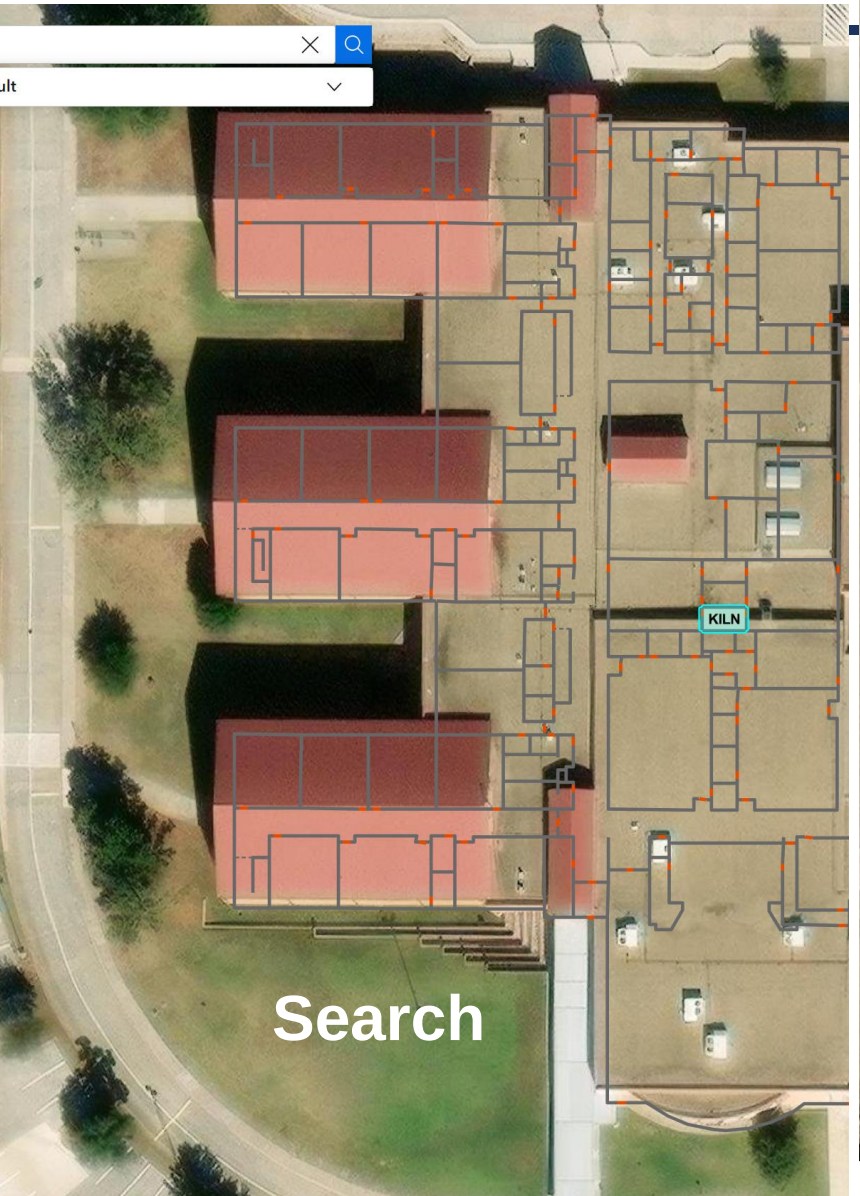
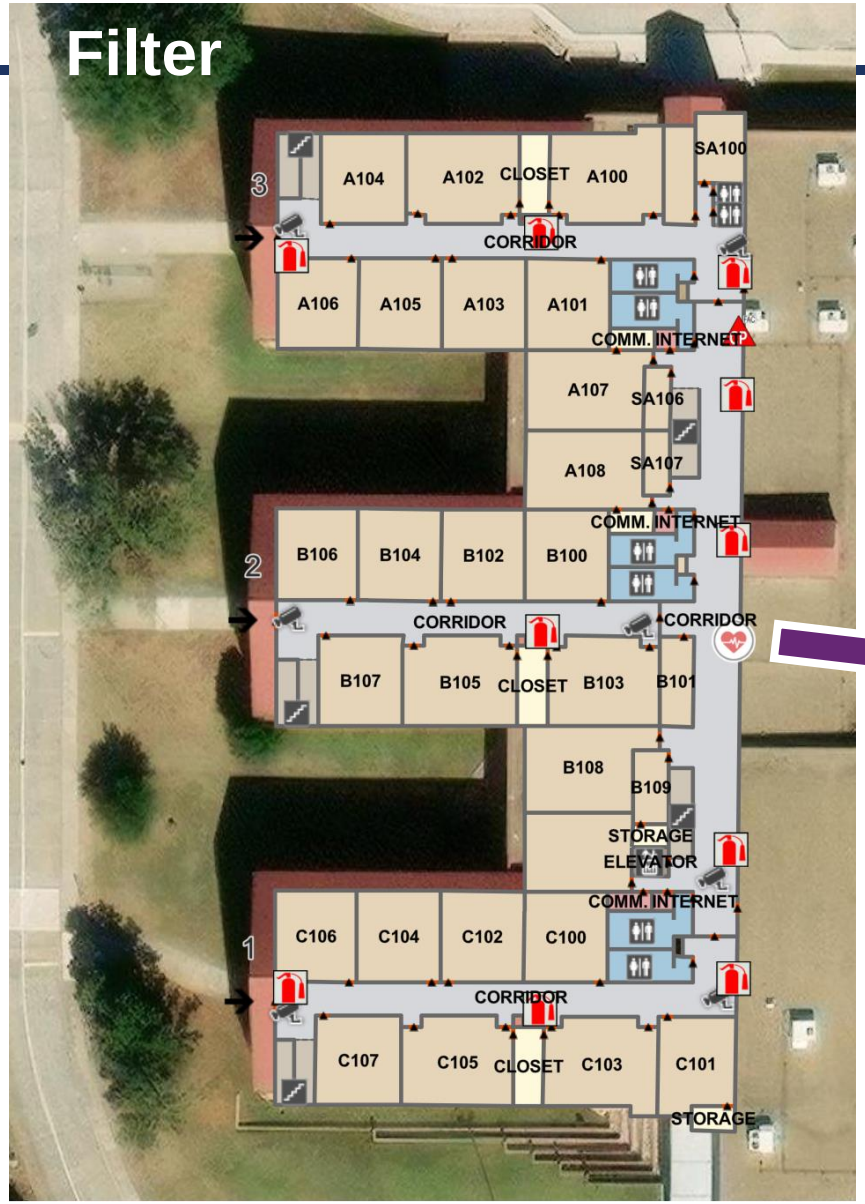
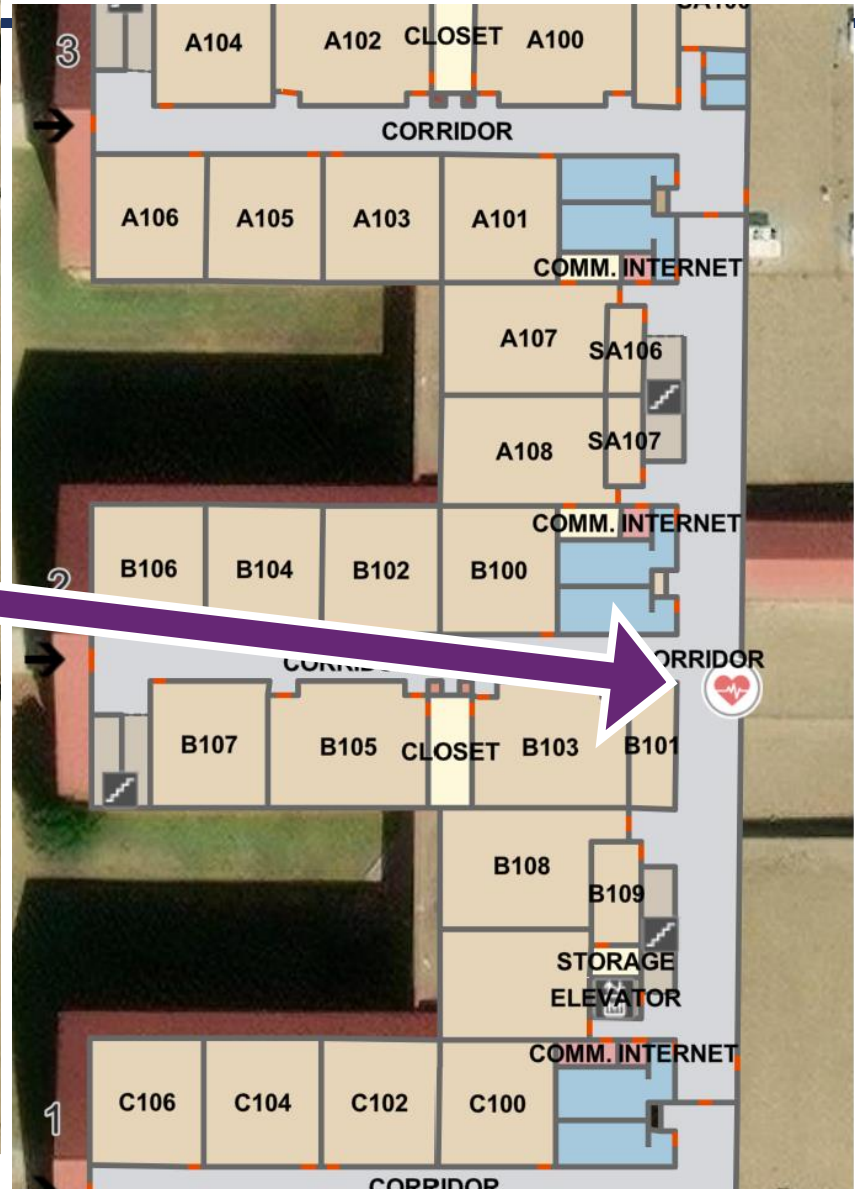
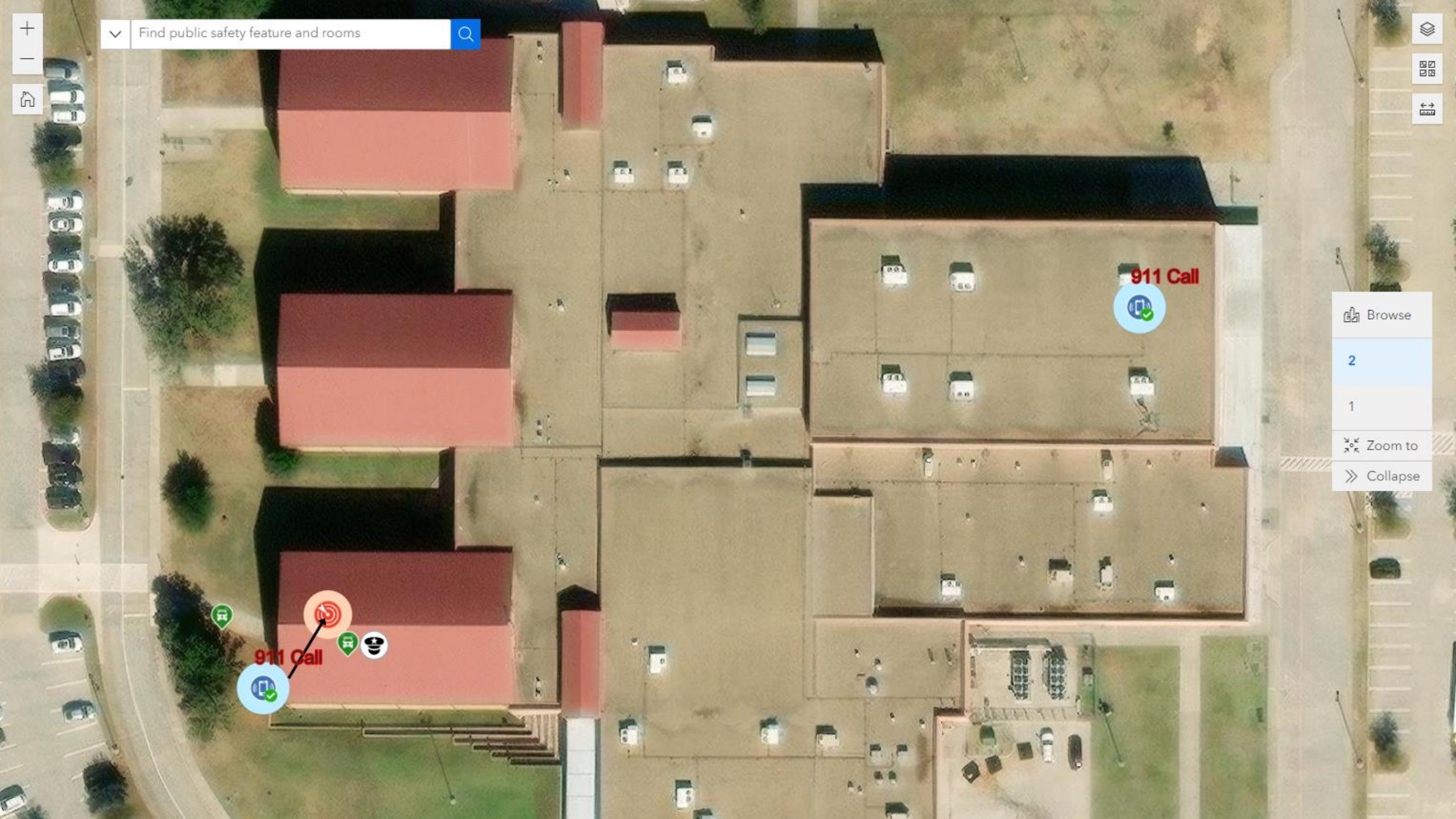
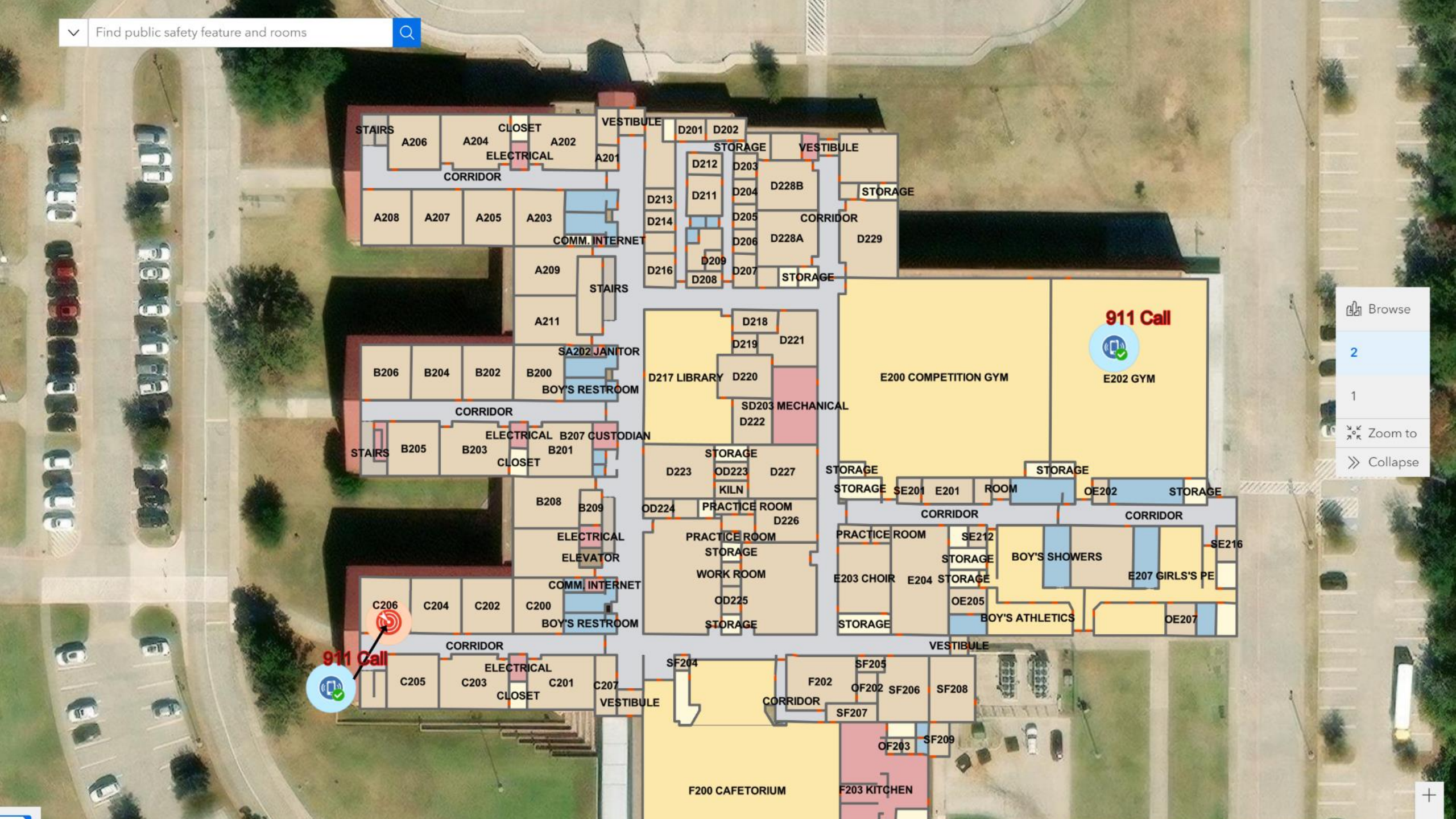
Why Build Indoors Maps in GIS?








Find public safety feature and rooms
911 Call
911 Call
Browse
2
1
Zoom to
Collapse


Find public safety feature and rooms
STAIRS
A206
A204
CLOSET
ELECTRICAL
A202
A201
VESTIBULE
D201
D202
STORAGE
VESTIBULE
CORRIDOR
D212
D203
D211
D204
D228B
STORAGE
D213
D214
D205
CORRIDOR
A208
A207
A205
A203
COMM. INTERNET
D206
D228A
D229
D209
D216
D207
D208
STORAGE
A209
STAIRS
A211
911 Call
D218
D219
D221
SA202 JANITOR
B206
B204
B202
B200
D217 LIBRARY
D220
E200 COMPETITION GYM
E202 GYM
BOY'S RESTROOM
SD203 MECHANICAL
CORRIDOR
D222
ELECTRICAL
B207 CUSTODIAN
STAIRS
B205
B203
B201
CLOSET
STORAGE
D223
OD223
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KILN
STORAGE
SE201
E201
ROOM
OE202
STORAGE
B208
B209
OD224
PRACTICE ROOM
D226
CORRIDOR
CORRIDOR
ELECTRICAL
PRACTICE ROOM
PRACTICE ROOM
SE212
SE216
ELEVATOR
STORAGE
STORAGE
BOY'S SHOWERS
WORK ROOM
E203 CHOIR
E204
STORAGE
E207 GIRLS'S PE
COMM. INTERNET
OE205
C206
C204
C202
C200
OD225
BOY'S ATHLETICS
OE207
BOY'S RESTROOM
STORAGE
STORAGE
CORRIDOR
VESTIBULE
911 Call
SF204
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C205
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CLOSET
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CORRIDOR
SF207
OF203
SF209
F200 CAFETORIUM
F203 KITCHEN
Browse
2
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Collapse

Find public safety feature and rooms
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911 Call
E200 COMPETITION GYM
E202 GYM
D217 LIBRARY
SD203 MECHANICAL
D200 RECEPTION
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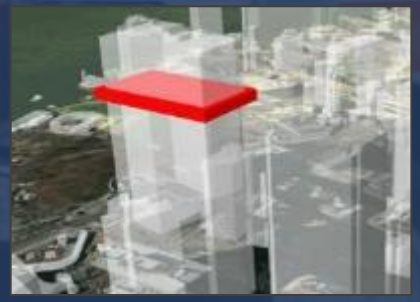
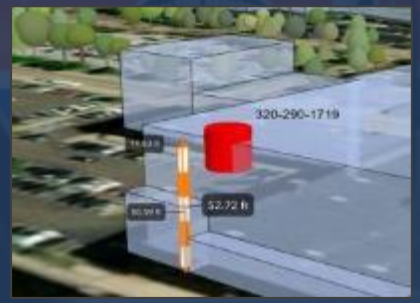
COMM. INTERNET
SA202 JANITOR
B207 CUSTODIAN
ELECTRICAL
CLOSET
STAIRS
ELEVATOR
VESTIBULE
CORRIDOR
STORAGE
ROOM
KILN
WORK ROOM
PRACTICE ROOM
BOY'S SHOWERS
GIRL'S SHOWERS
E208
SE212
SE216
Grid Upon Request
Fire
Law
Medical
Maxar, Microsoft
Powered by Esri

Next Steps

Learn More about GeoComm Vertical Location Services at https://www.geocomm.com/vertical-location-services/





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