

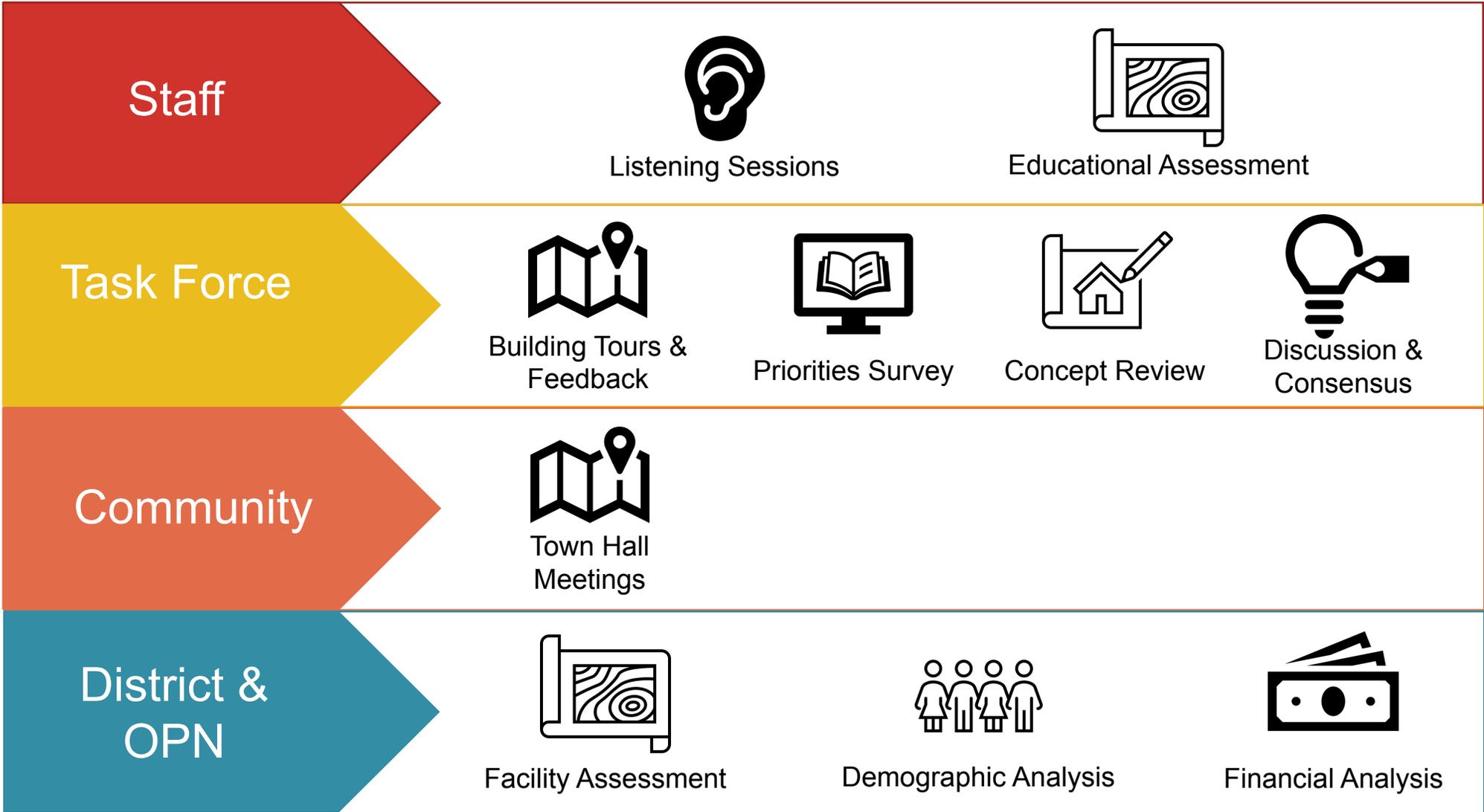
Facilities Master Plan

Task Force Meeting #7

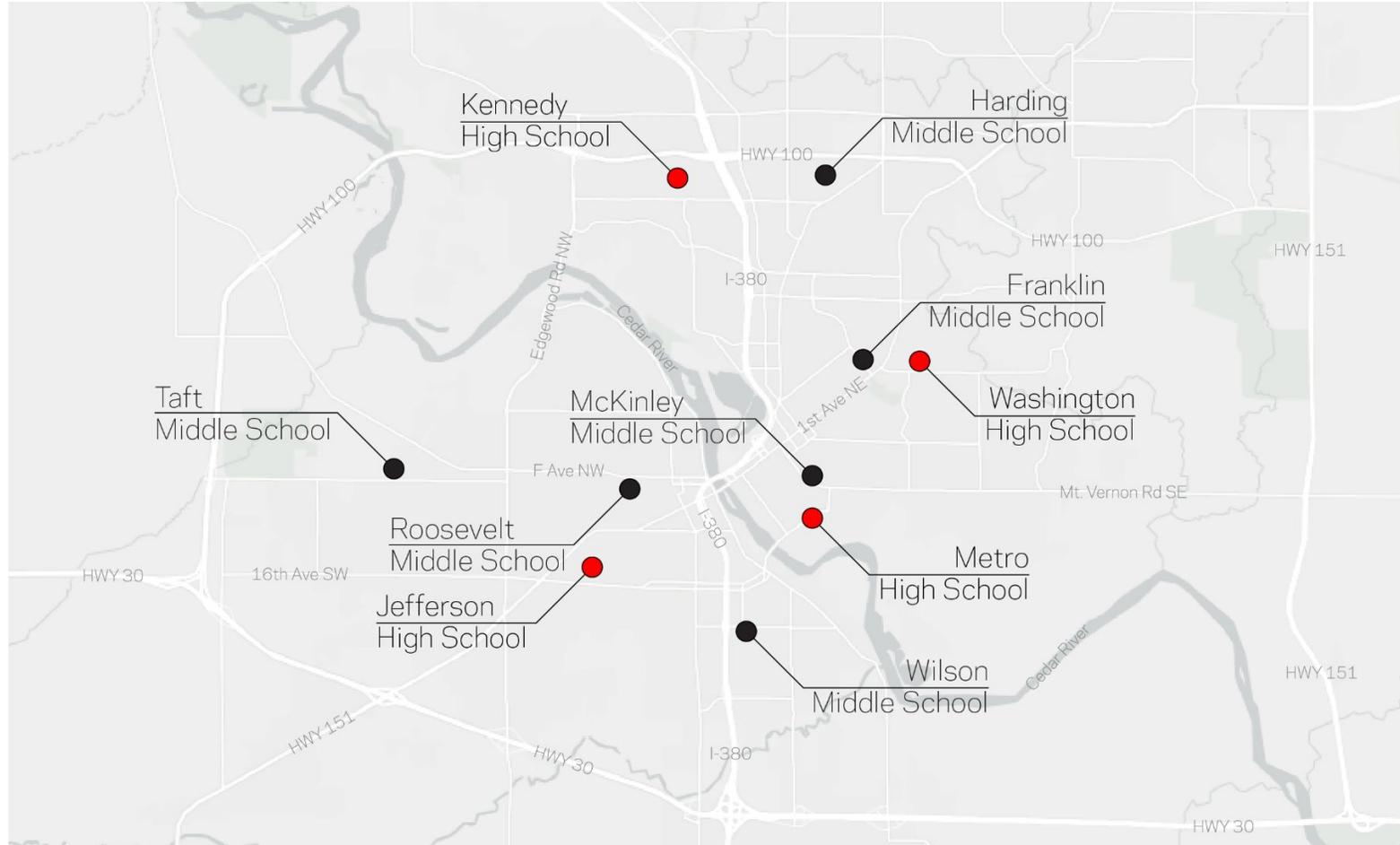
February 22, 2022

Agenda

- **Welcome and Check-In**
- **OPN Update on Secondary Data Collection**
- **Small Group Discussion**
- **Elementary Discussion**
- **Closure**



District Middle & High Schools



Facility Assessment



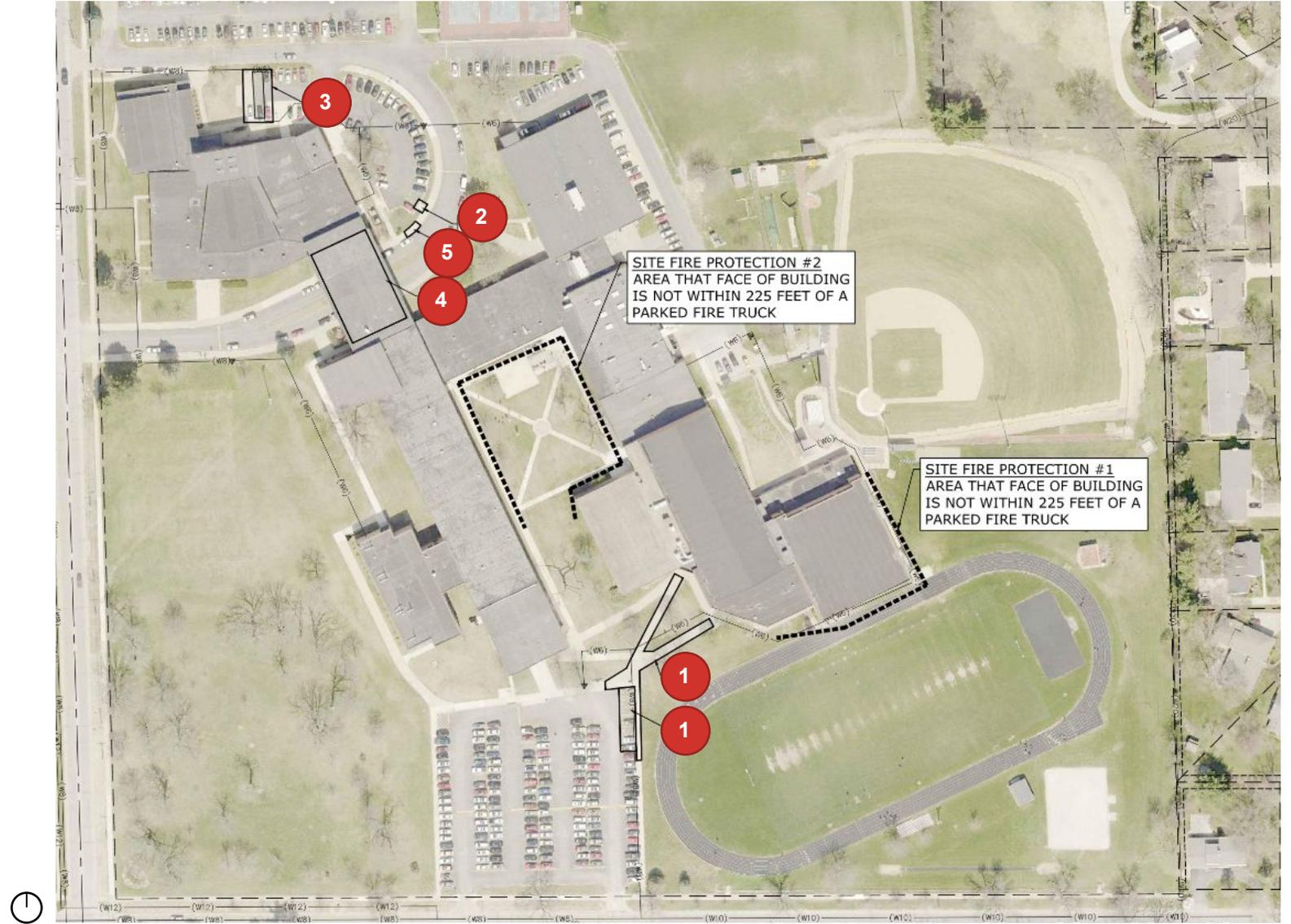
Washington High School

318,831 GSF SCHOOL SIZE
815 NSF AVG CLASSROOM

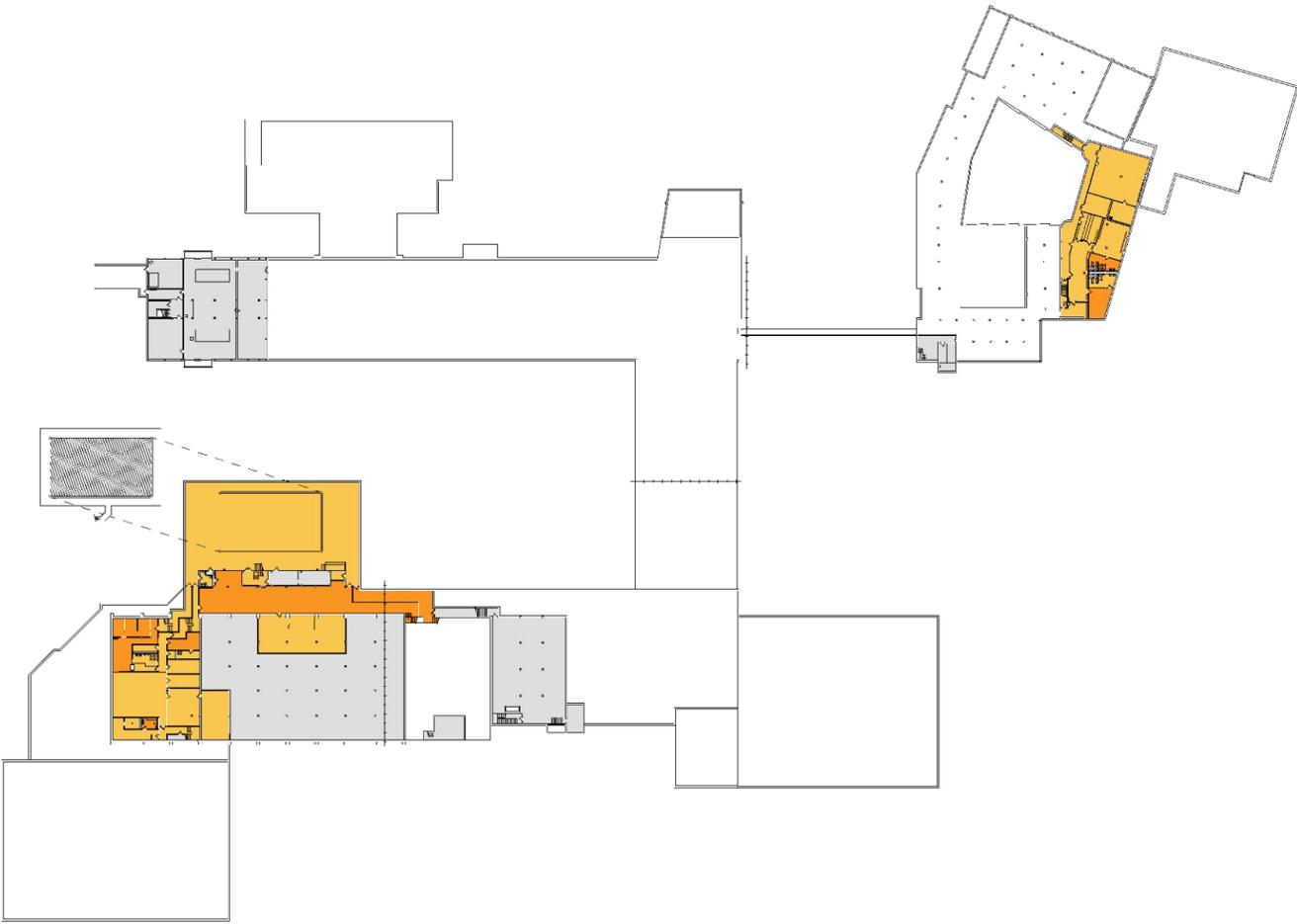


Site Deficiencies

1. Accessible stalls exceed 2% max slope, ramp is non compliant, sidewalk cross slope exceeds 2%, pavement differential exceeds 1/2" at joint line
2. Pavement differential exceeds 1/2" at joint line, and non compliant curb @ curb ramp
3. Accessible stall exceed 2% max , no stripped path to ramp
4. Ramps exceed max 8.33% slope, accessible path not designated either side
5. Walk exceeds 2% cross slope



Floor Assessment / Washington High School



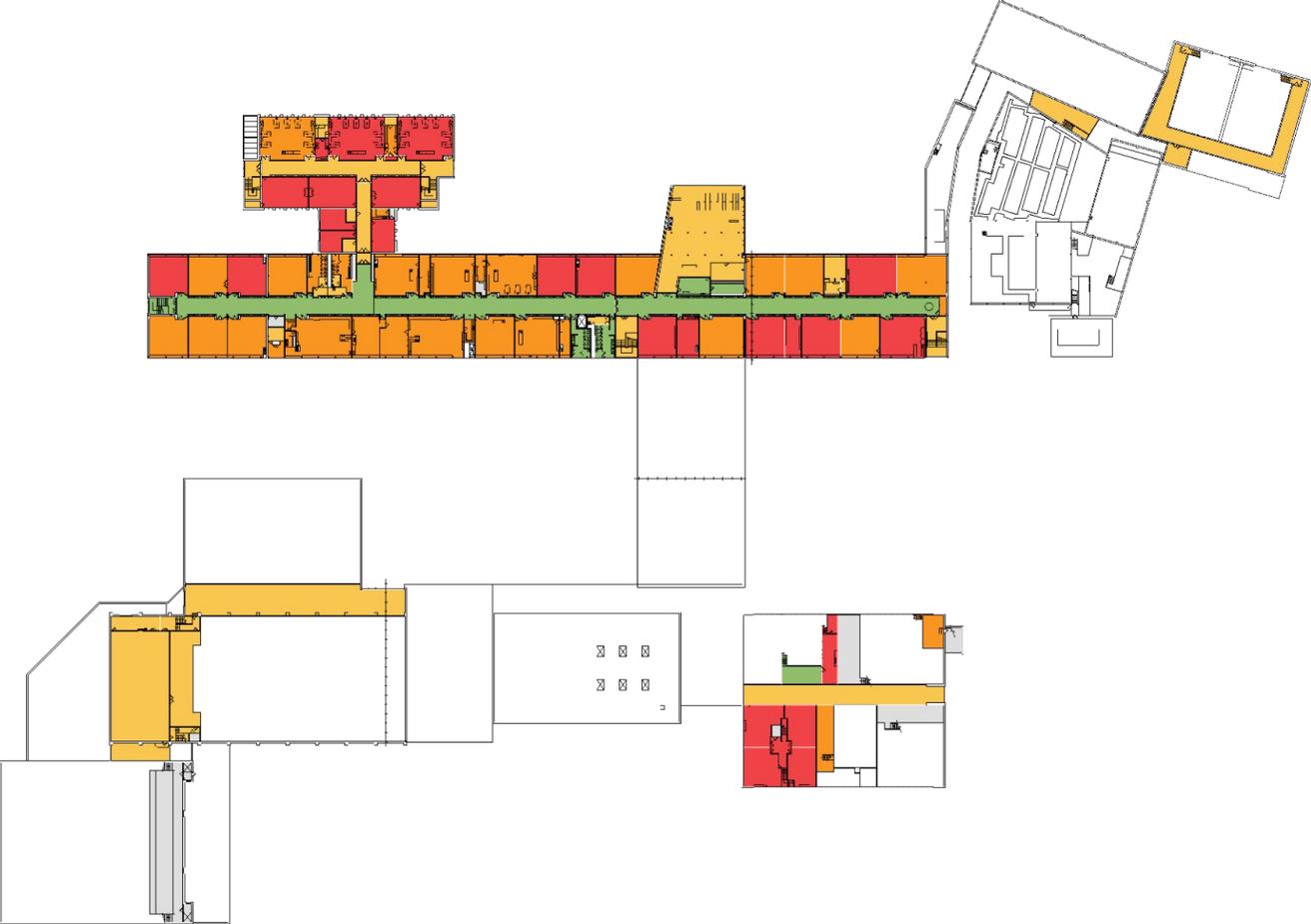
Lower Level

Floor Assessment / Washington High School



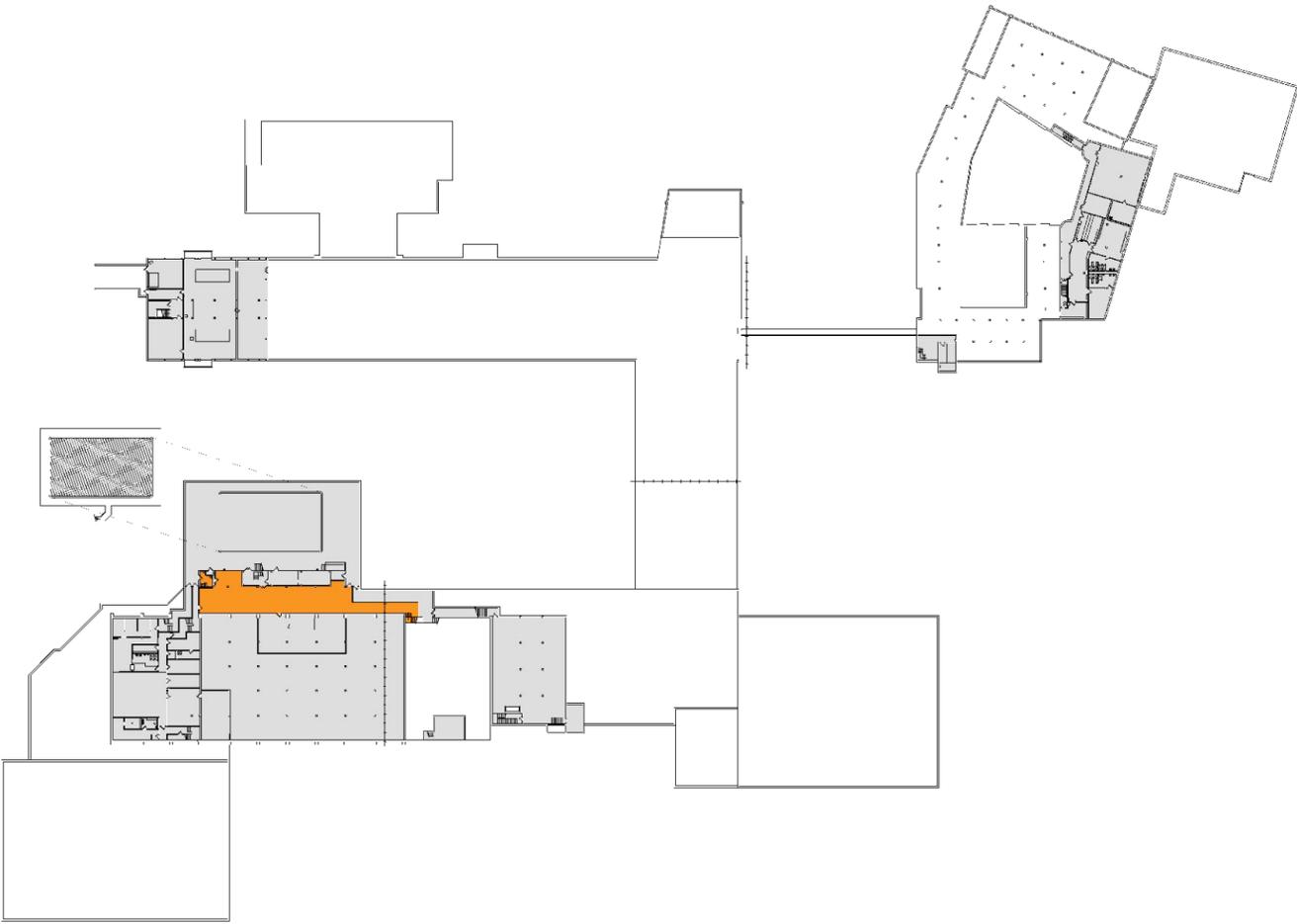
Level 1

Floor Assessment / Washington High School



Level 2

Ceiling Assessment / Washington High School



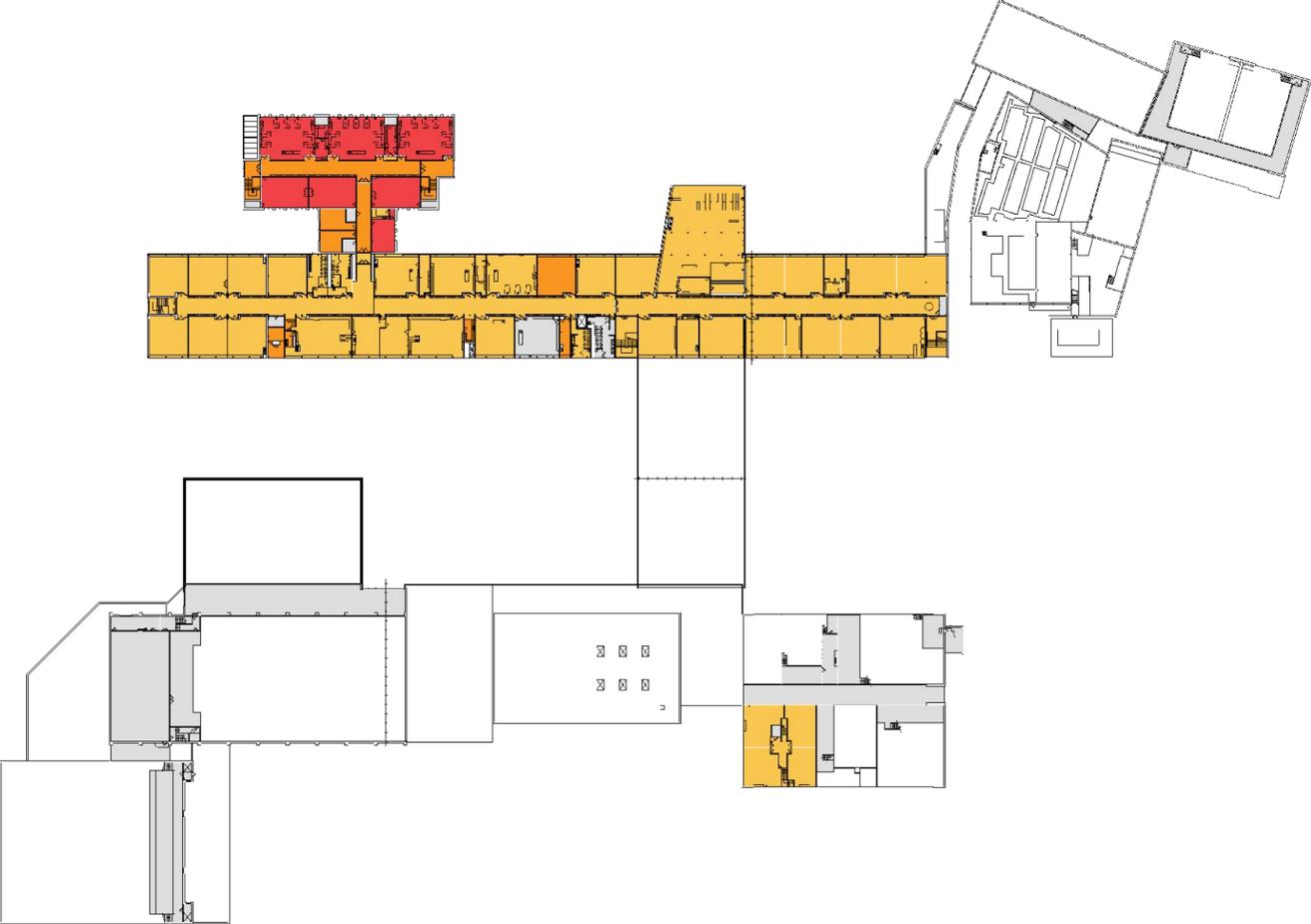
Lower Level

Ceiling Assessment / Washington High School



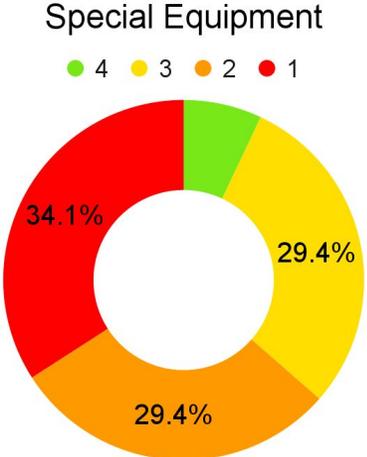
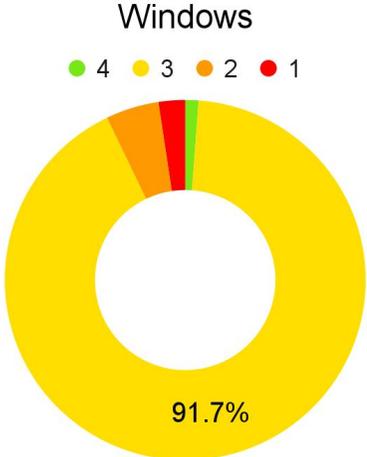
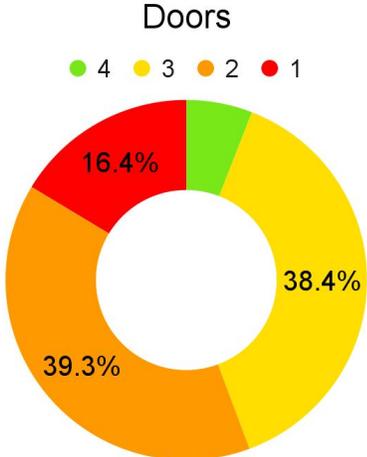
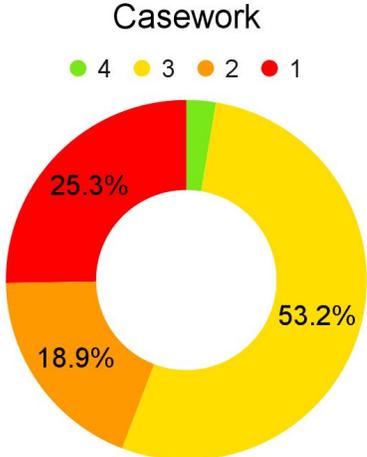
Level 1

Ceiling Assessment / Washington High School

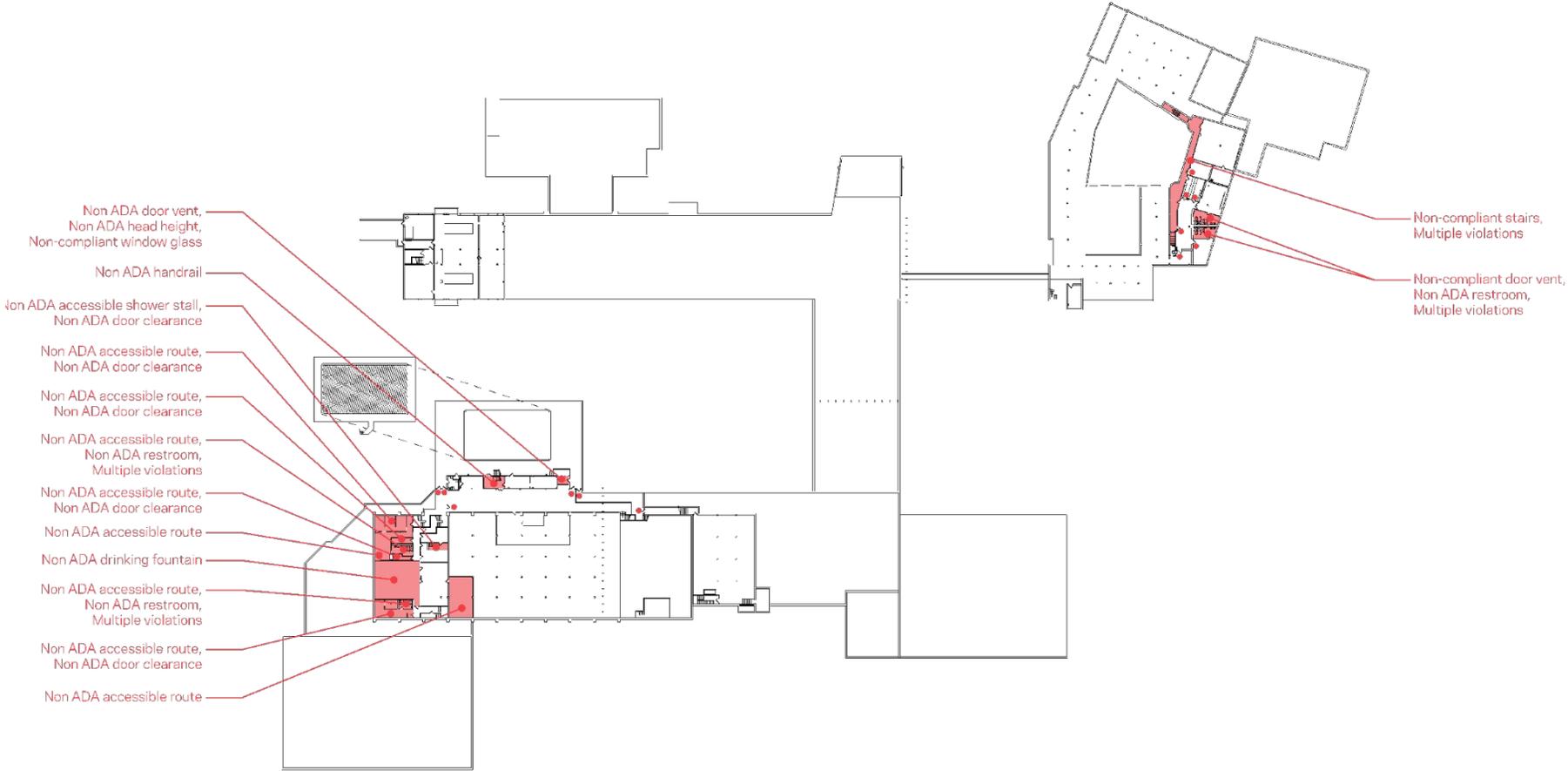


Level 2

Additional Assessments / Washington High School

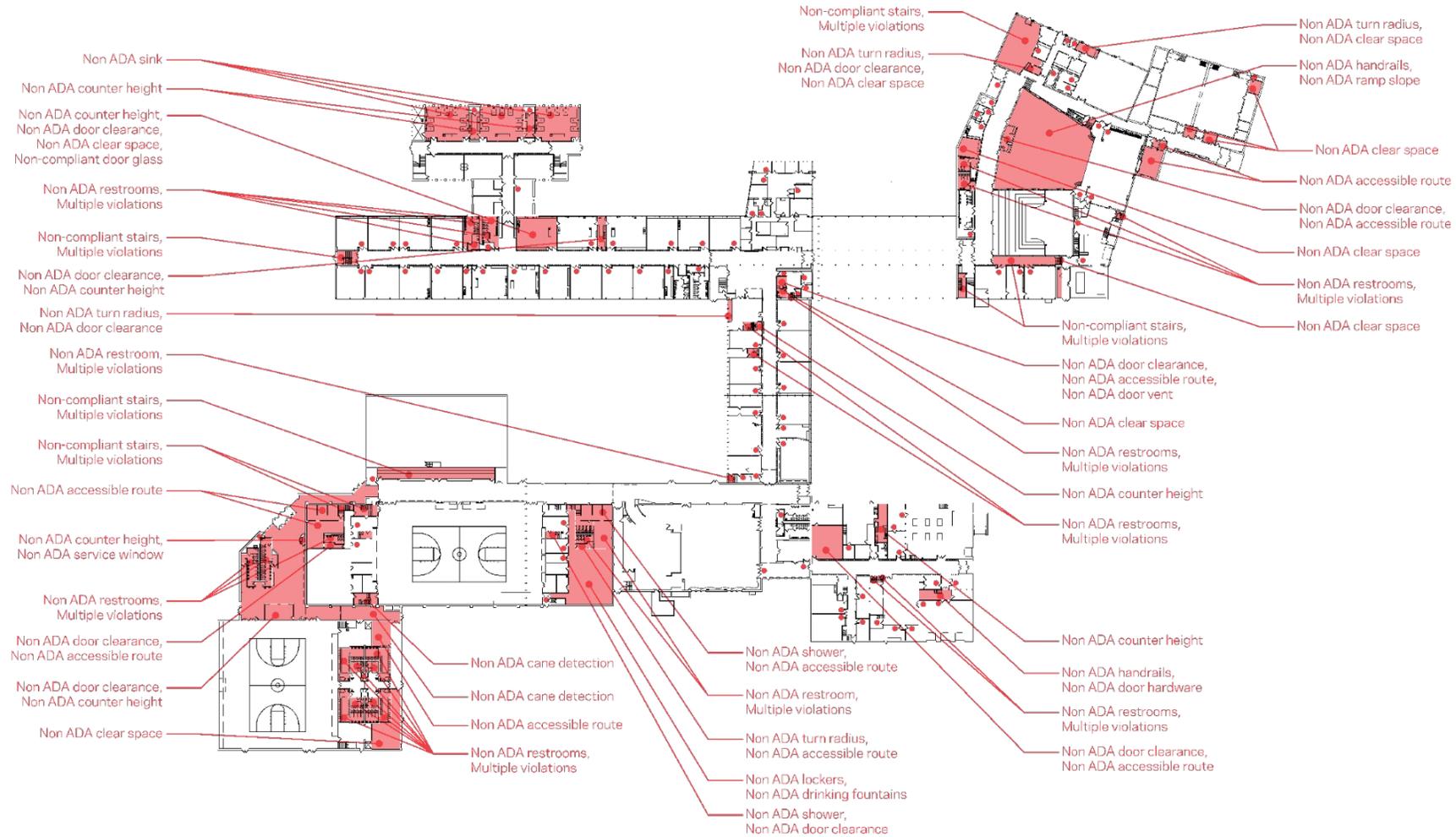


ADA/Code Compliance



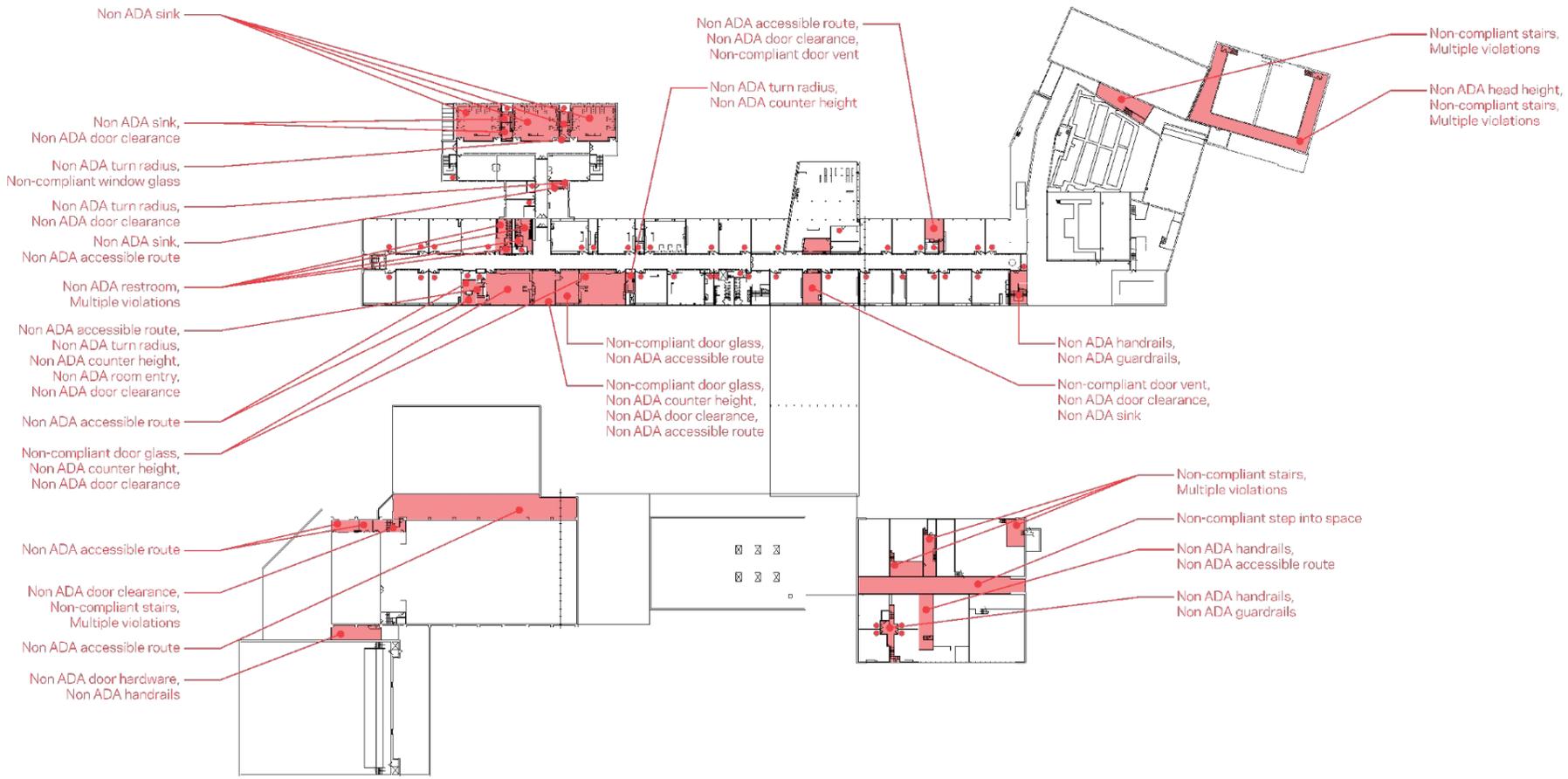
Lower Level

ADA/Code Compliance



Level 1

ADA/Code Compliance



Level 2

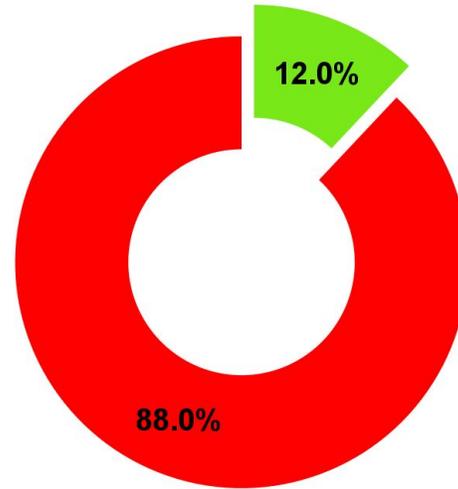
ADA/Code Compliance

1. Non-compliant entrances to classrooms
2. Non-compliant fixtures and stalls in restrooms
3. Non ADA casework and sinks
4. Non-compliant stairs/guardrails and handrails
5. Non-compliant accessible route to locker rooms
6. Non-compliant locker room showers and restrooms
7. Non-compliant casework/display case barriers
8. Non-compliant glass in corridors

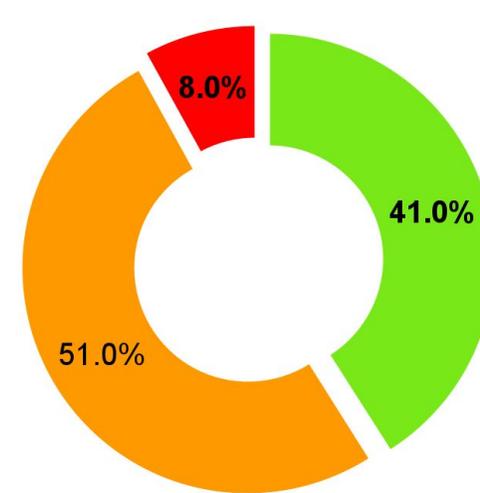
Mechanical

| Fire Suppression | |
|------------------------------------|-------------|
| Science & Fine Arts | Good |
| Main building | No Coverage |
| Plumbing | |
| Fixtures | Adequate |
| Supply Piping | Adequate |
| Drain Piping | Adequate |
| Vent Piping | Replace |
| HVAC | |
| Main Bldg Terminal Heat Pumps | Replace |
| Ventilation Air Handling Equipment | Refurbish |
| Sci / Fine Arts HVAC | Replace |
| HVAC Piping | Good |
| HVAC Controls | Replace |
| Geothermal Wells | Good |

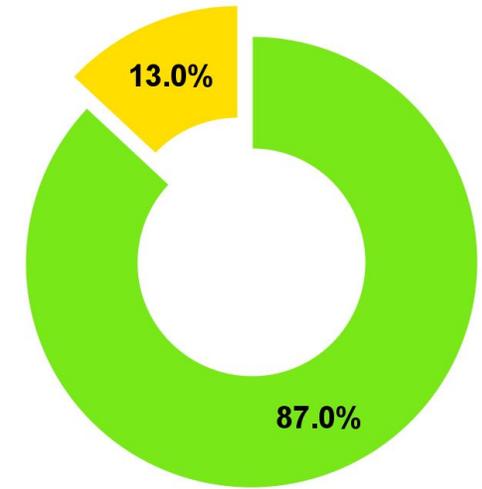
Fire Suppression



HVAC



Plumbing

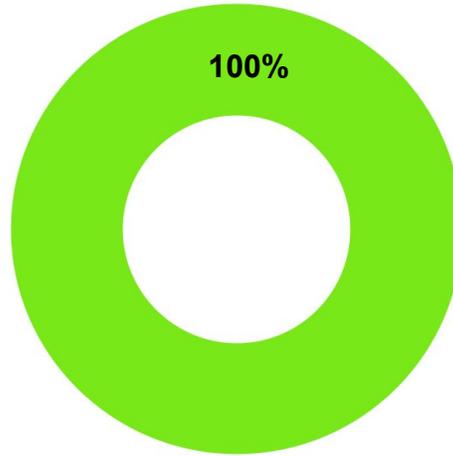


| KEY | |
|-----------|-----------|
| Very Poor | 0-5 yrs |
| Poor | 5-10 yrs |
| Fair | 10-15 yrs |
| Good | 15-20 yrs |

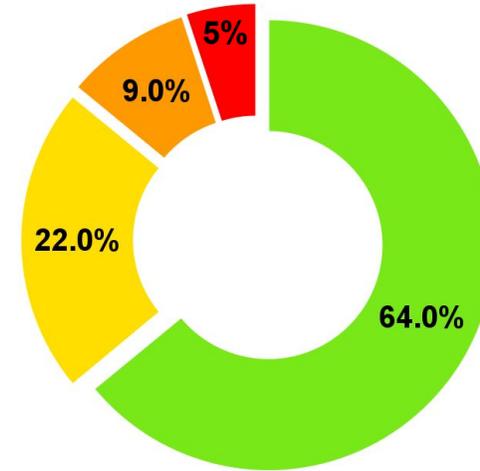
Electrical

| | System | Notes |
|----------------------|---|---------------------|
| ELECTRICAL | General Lighting & Controls | Partial Replacement |
| | Theater Lighting & Controls | Replace |
| | Emergency Light Systems | Adequate |
| | Power System - 480V Service | Good |
| | Power System - 208V Service | Replace |
| | Power System - Branch Panels 1980 & Older | Replace |
| | Power System - Branch Panels 1980 & Newer | Adequate |
| | TECH. | IT Network |
| Clocks | | Good |
| Paging System | | Good |
| Classroom A/V System | | Replace |
| SAFETY & SECURITY | Door Entry Station | Good |
| | Access Control | Adequate |
| | Cameras | Adequate |
| | Fire Alarm | Good |

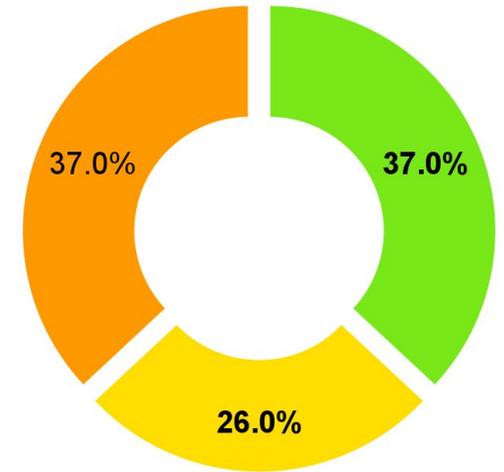
Safety and Security



Electrical



Technology



| KEY | |
|-----------|-----------|
| Very Poor | 0-5 yrs |
| Poor | 5-10 yrs |
| Fair | 10-15 yrs |
| Good | 15-20 yrs |

Assessment Cost

| | | |
|-----------------------|-----------------|----------------------|
| Site Improvements | \$ 103,320 | |
| Building Exterior | \$ 4,894,259 | |
| Interior Deficiencies | \$ 5,265,527 | |
| Mechanical | \$ 8,817,261 | |
| Electrical | \$ 3,340,000 | |
| Food Service | \$ 0 | |
| General Conditions | \$ 1,345,222 | |
| | SUBTOTAL | \$ 23,765,588 |



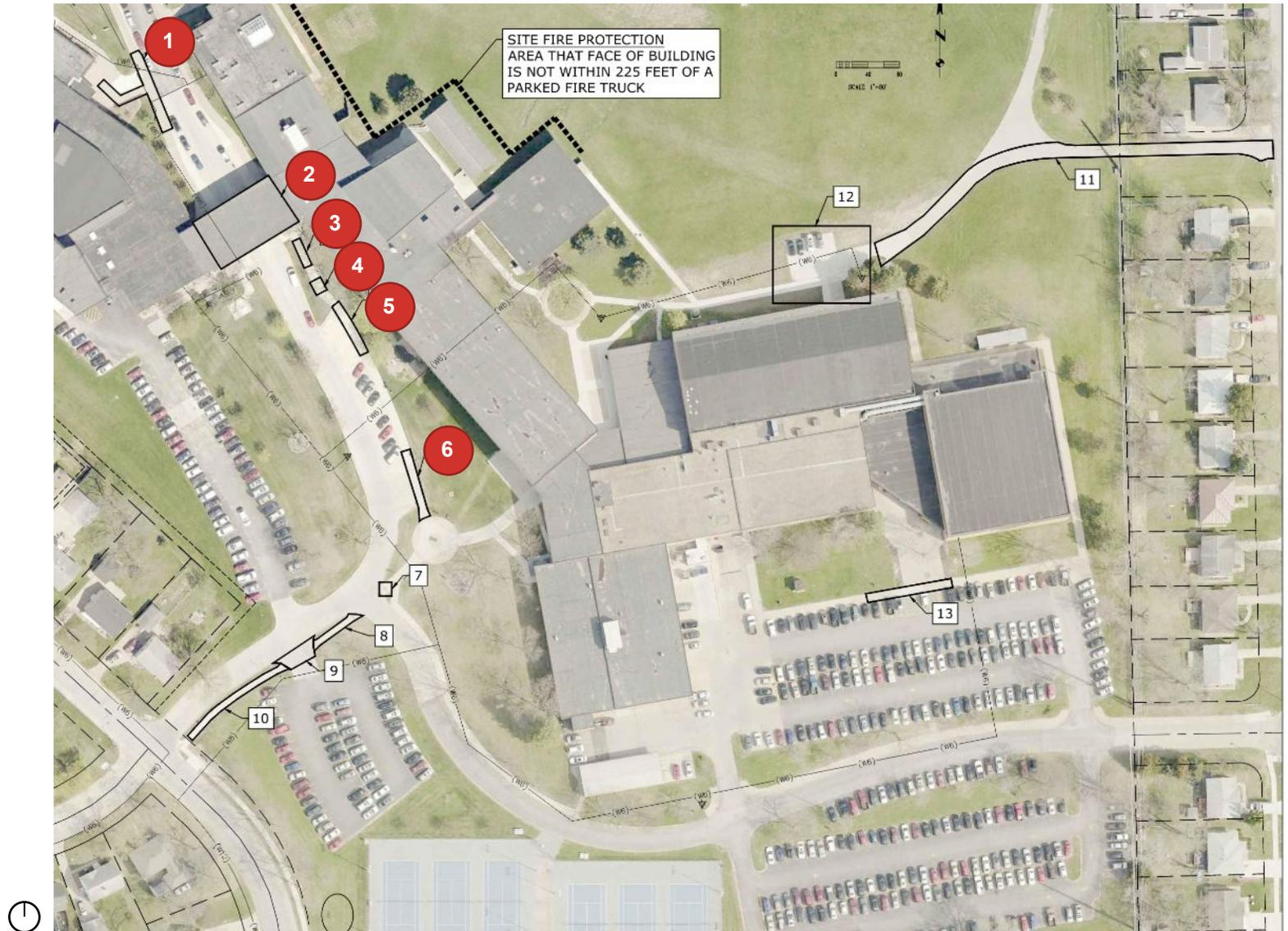
Jefferson High School

341,018 GSF SCHOOL SIZE
750 NSF AVG CLASSROOM



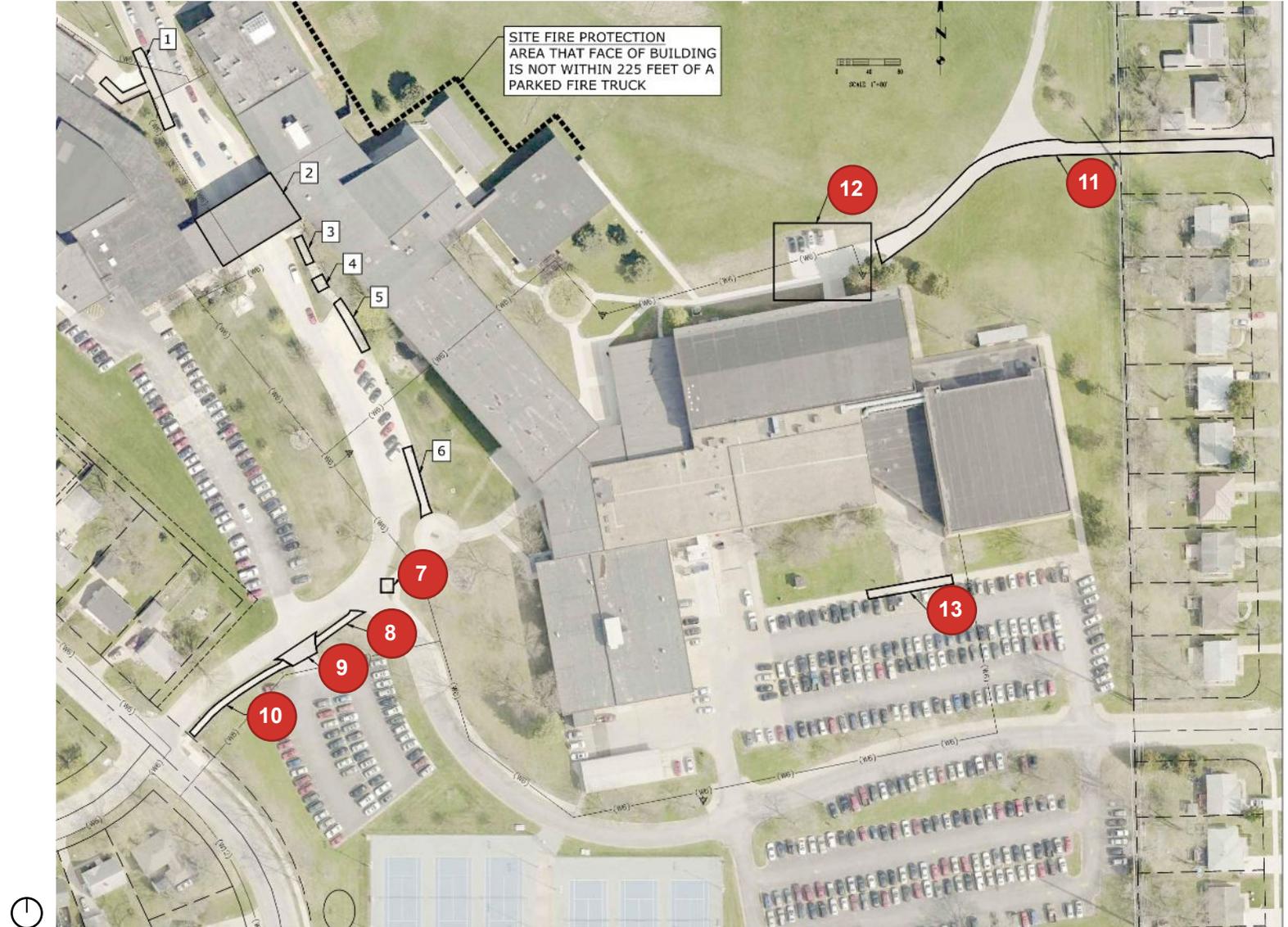
Site Deficiencies

1. Ramp cross slope exceeds 2%, ramp longitudinal slope exceeds 5%. wrong parking space marked as accessible, cracking and joint differential exceeds 1/2", and non compliant curb ramp location for accessible stall
2. Cross slope exceeds 2%
3. Accessible route exceeds 2% cross slope
4. Joint differential exceeds 1/2", cross slope exceeds 2%
5. Cross slope exceeds 2%, ramp longitudinal slope exceeds 8.33%
6. Cross slope exceeds 2%, ramp longitudinal slope exceeds 8.33%

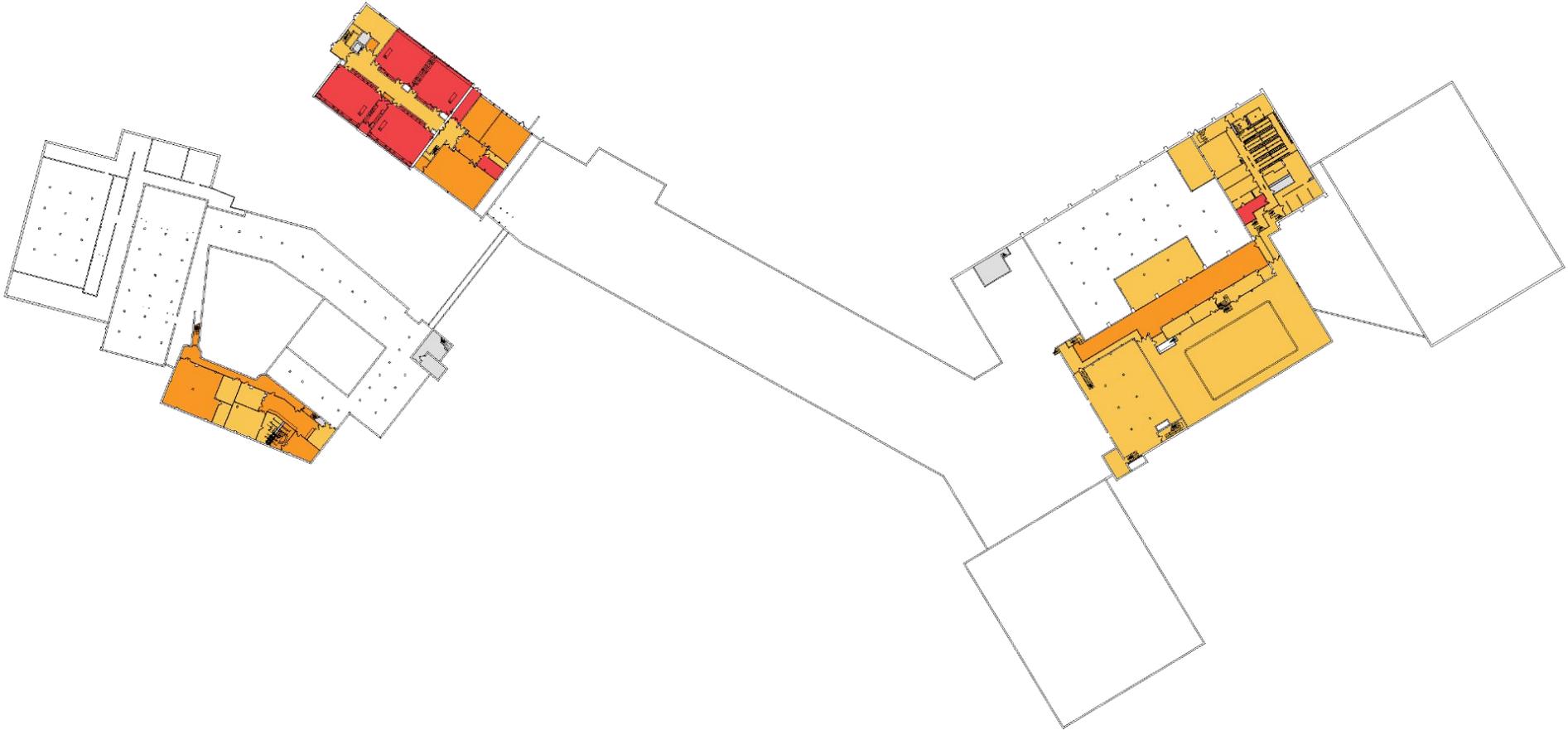


Site Deficiencies

- 7. Cross slope exceeds 2%, truncated domes non compliant
- 8. Cross slope exceeds 2%
- 9. Cross slope exceeds 2%, longitudinal slope exceeds 5%
- 10. Longitudinal slope exceeds 5%
- 11. Fire access road less than 20' in width, and longitudinal slope exceeds 10% in spots (may have or can obtain variance from crfd)
- 12. No compliant fire access turn around
- 13. Cross slope exceeds 2% and non compliant ramp access to accessible stalls



Floor Assessment / Jefferson High School



⌚ Lower Level

Floor Assessment / Jefferson High School



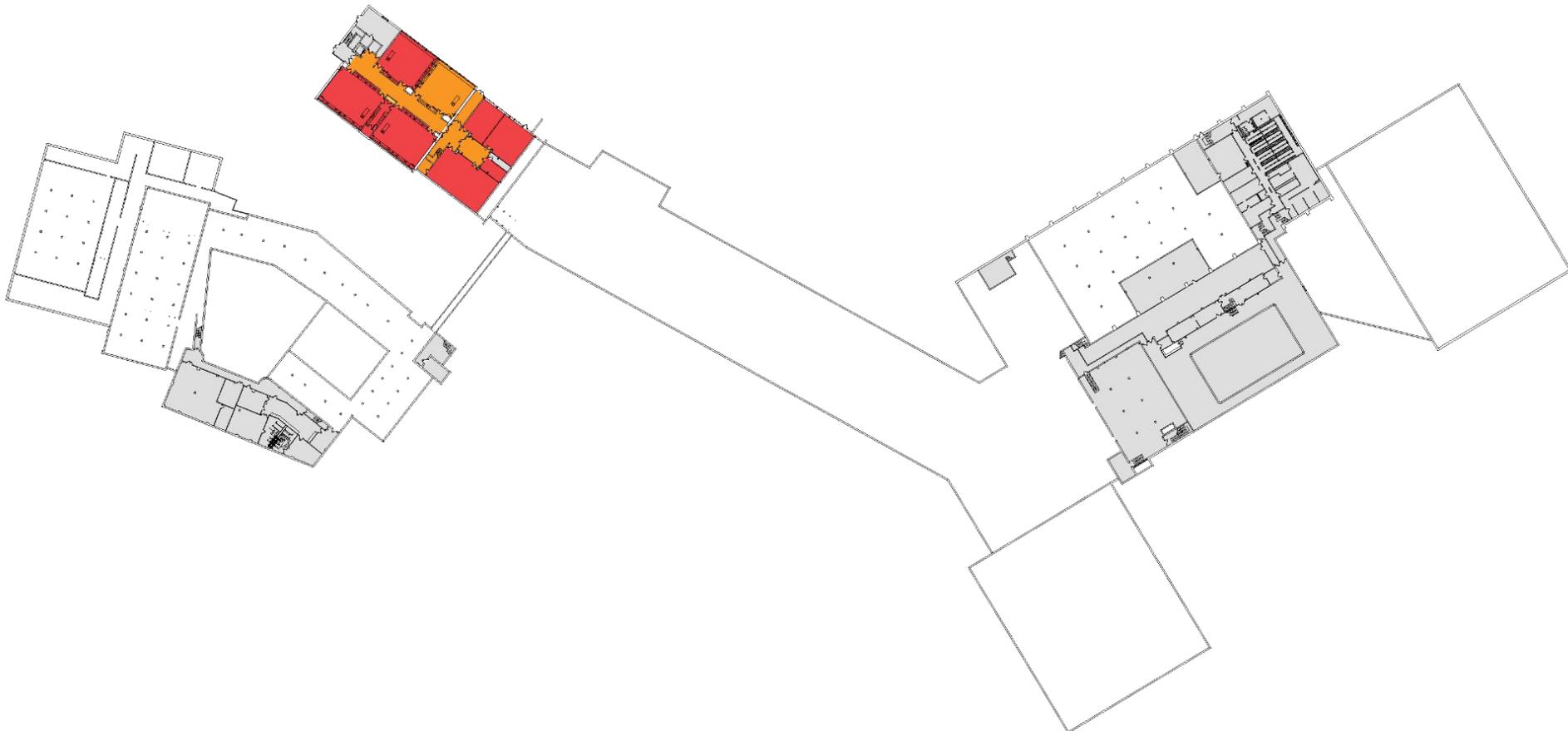
🕒 Level 1

Floor Assessment / Jefferson High School



🕒 Level 2

Ceiling Assessment / Jefferson High School



🕒 Lower Level

Ceiling Assessment / Jefferson High School



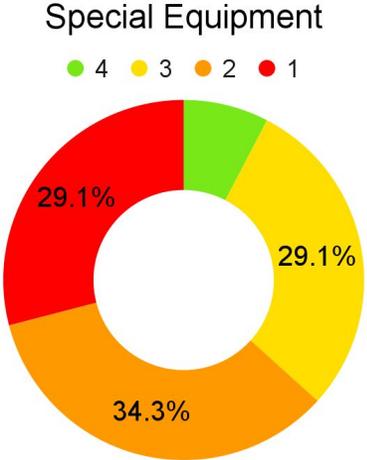
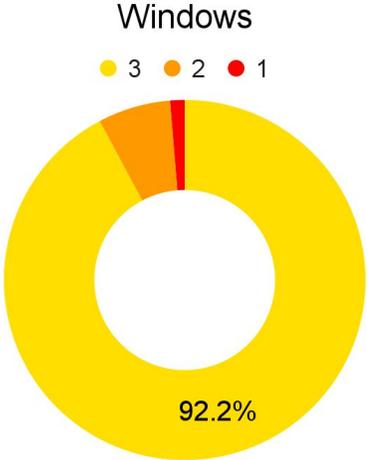
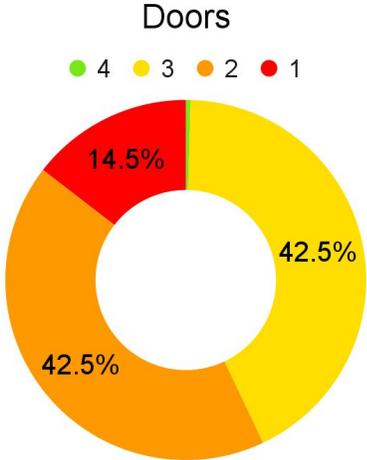
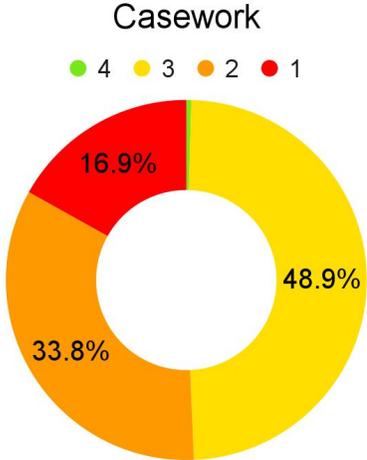
🕒 Level 1

Ceiling Assessment / Jefferson High School



🕒 Level 2

Additional Assessments / Jefferson High School

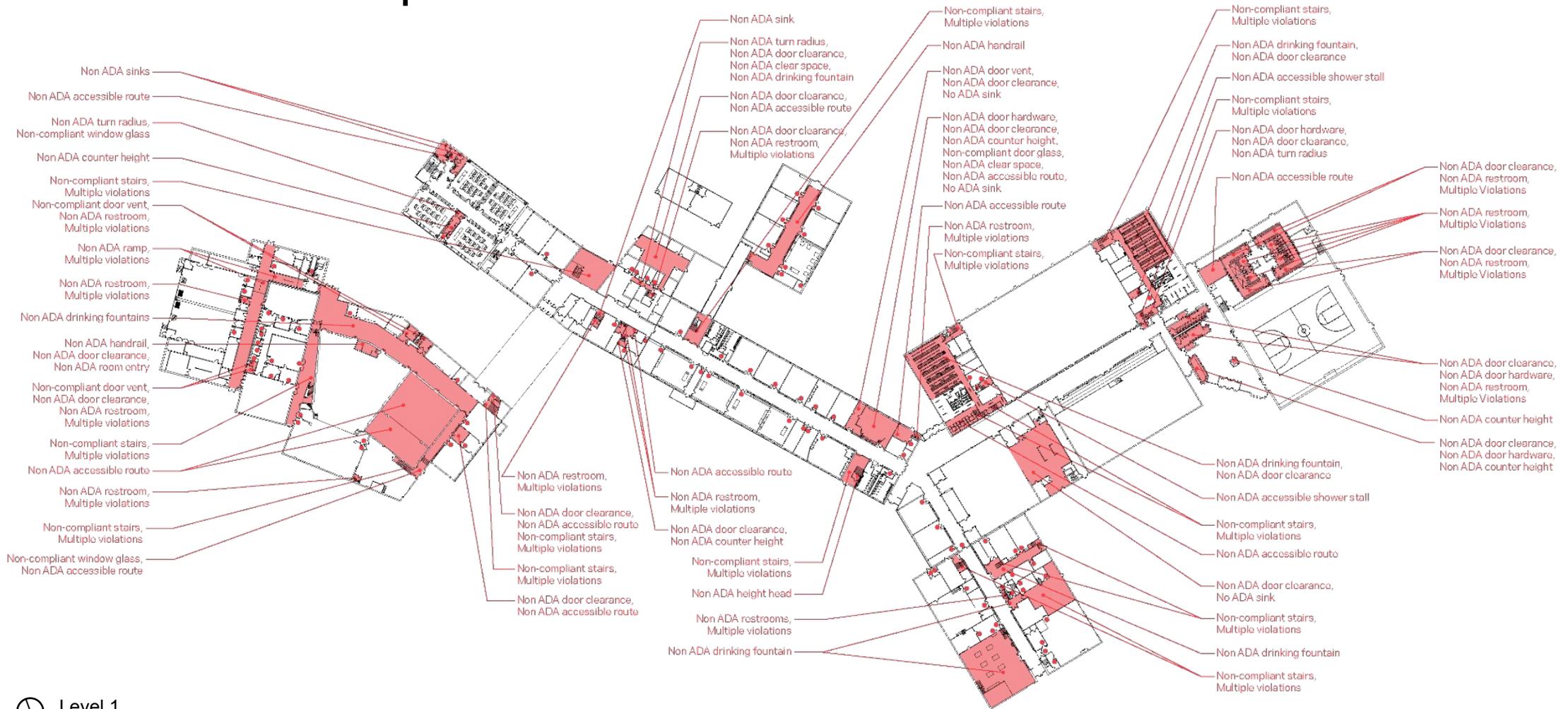


ADA/Code Compliance



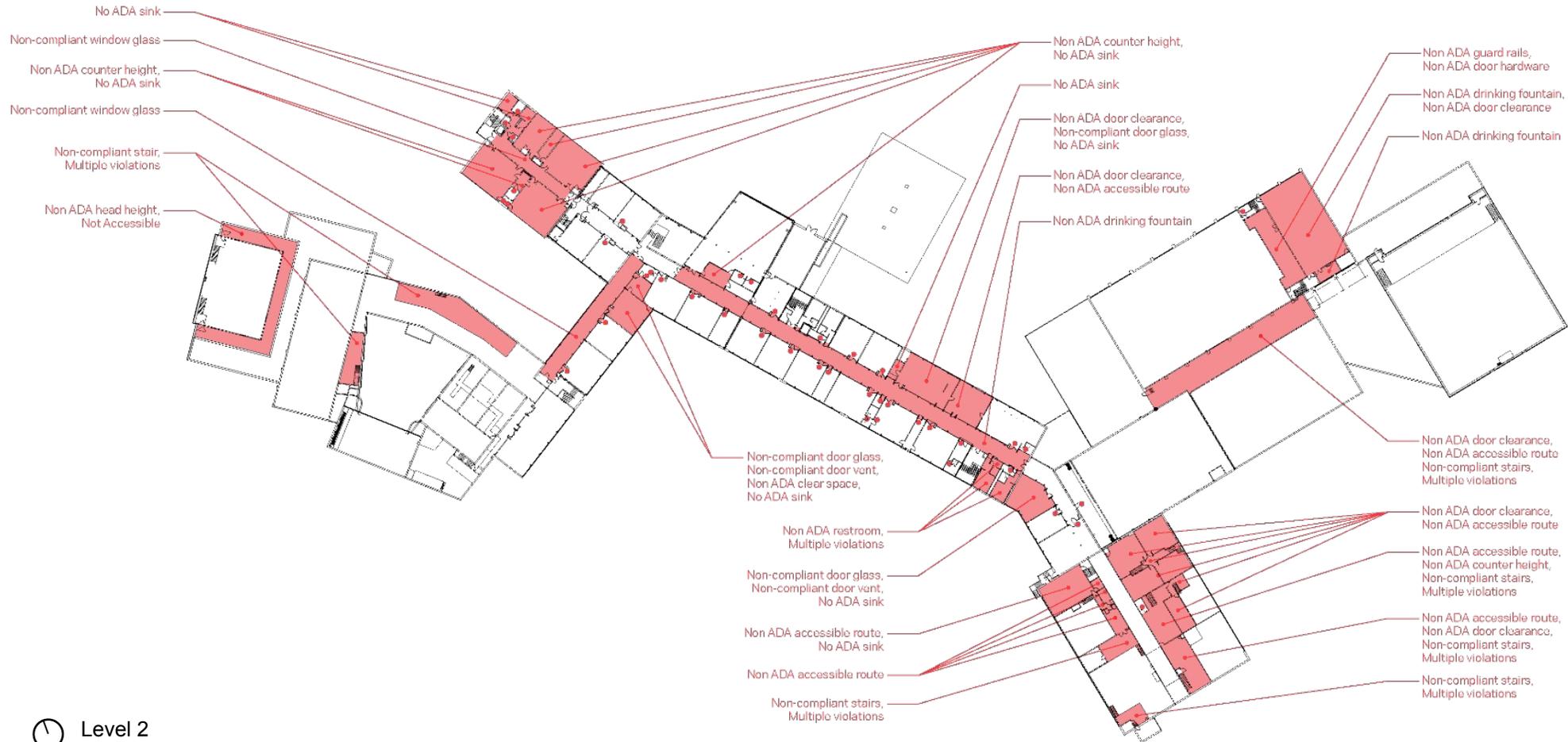
⌚ Lower Level

ADA/Code Compliance



🕒 Level 1

ADA/Code Compliance



🕒 Level 2

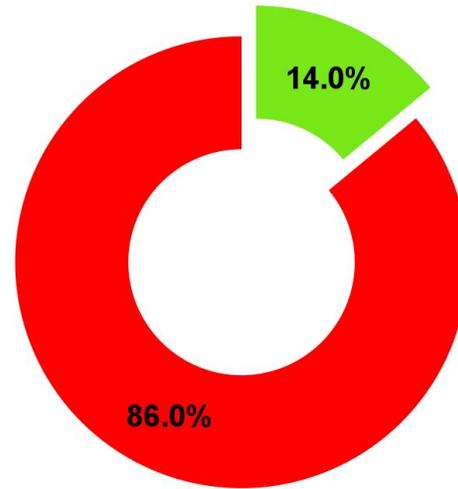
ADA/Code Compliance

1. Non-compliant entrances to classrooms
2. Non-compliant fixtures and stalls in restrooms
3. Non ADA casework and sinks
4. Non-compliant stairs/guardrails and handrails
5. Non-compliant accessible route to locker rooms
6. Non-compliant locker room showers and restrooms
7. Non-compliant casework/display case barriers
8. Non-compliant glass in corridors
9. Non-compliant ramp slope/handrails
10. Non-compliant drinking fountains

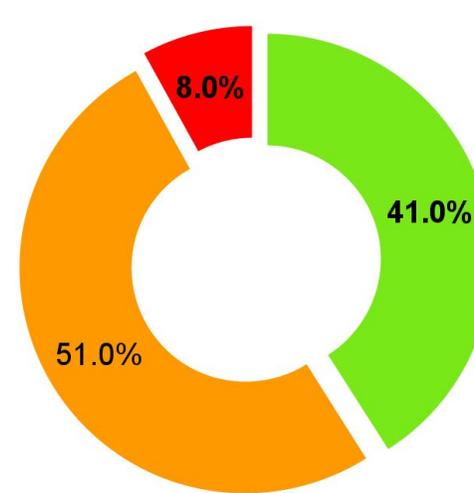
Mechanical

| Fire Suppression | |
|------------------------------------|-------------|
| Science & Fine Arts | Good |
| Main building | No Coverage |
| Plumbing | |
| Fixtures | Adequate |
| Supply Piping | Adequate |
| Drain Piping | Adequate |
| Vent Piping | Replace |
| HVAC | |
| Main Bldg Terminal Heat Pumps | Replace |
| Ventilation Air Handling Equipment | Refurbish |
| Sci / Fine Arts HVAC | Replace |
| HVAC Piping | Good |
| HVAC Controls | Replace |
| Geothermal Wells | Good |

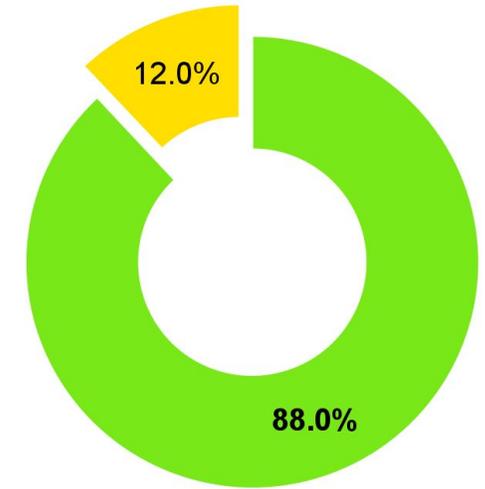
Fire Suppression



HVAC



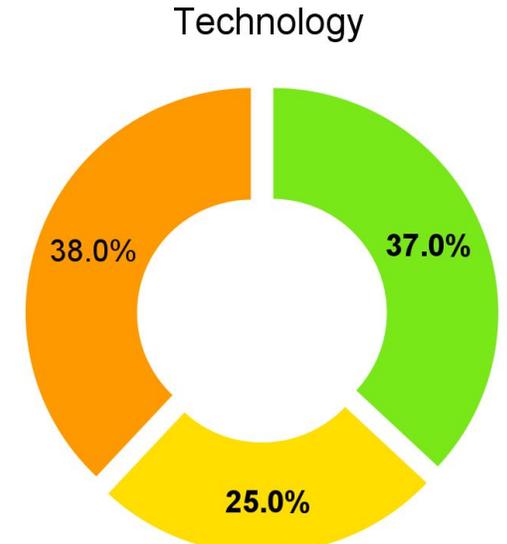
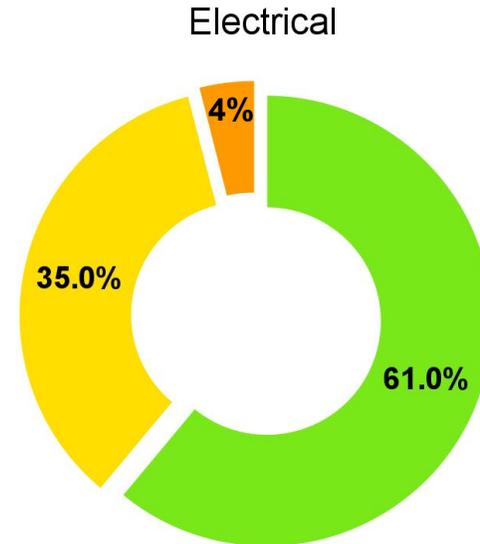
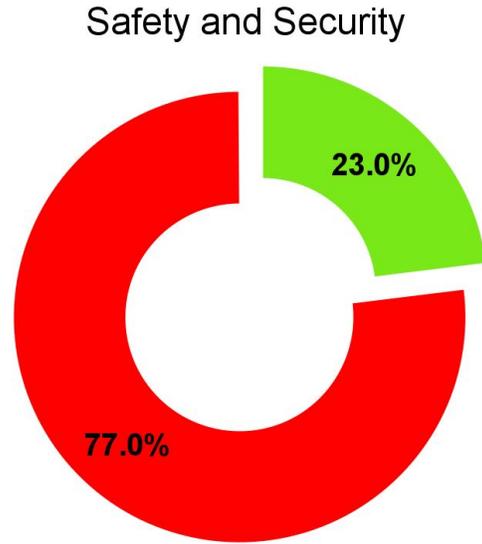
Plumbing



| KEY | |
|-----------|-----------|
| Very Poor | 0-5 yrs |
| Poor | 5-10 yrs |
| Fair | 10-15 yrs |
| Good | 15-20 yrs |

Electrical

| | System | Notes |
|-------------------|---|---------------------|
| ELECTRICAL | General Lighting & Controls | Partial Replacement |
| | Theater Lighting & Controls | Replace |
| | Emergency Light Systems | Adequate |
| | Power System - 480V Service | Good |
| | Power System - 208V Service | Good |
| | Power System - Branch Panels 1980 & Older | Replace |
| | Power System - Branch Panels 1980 & Newer | Adequate |
| TECH. | IT Network | Replace |
| | Clocks | Partial Replacement |
| | Paging System | Replace |
| | Classroom A/V System | Replace |
| SAFETY & SECURITY | Door Entry Station | Good |
| | Access Control | Adequate |
| | Cameras | Adequate |
| | Fire Alarm | Replace |



| KEY | |
|-----------|-----------|
| Very Poor | 0-5 yrs |
| Poor | 5-10 yrs |
| Fair | 10-15 yrs |
| Good | 15-20 yrs |

Assessment Cost

| | | |
|-----------------------|-----------------|----------------------|
| Site Improvements | \$ 184,500 | |
| Building Exterior | \$ 5,019,641 | |
| Interior Deficiencies | \$ 5,840,363 | |
| Mechanical | \$ 9,406,790 | |
| Electrical | \$ 4,655,000 | |
| Food Service | \$ 0 | |
| General Conditions | \$ 1,506,378 | |
| | SUBTOTAL | \$ 26,612,671 |

Kennedy High School

305,887 GSF SCHOOL SIZE
745 NSF AVG CLASSROOM

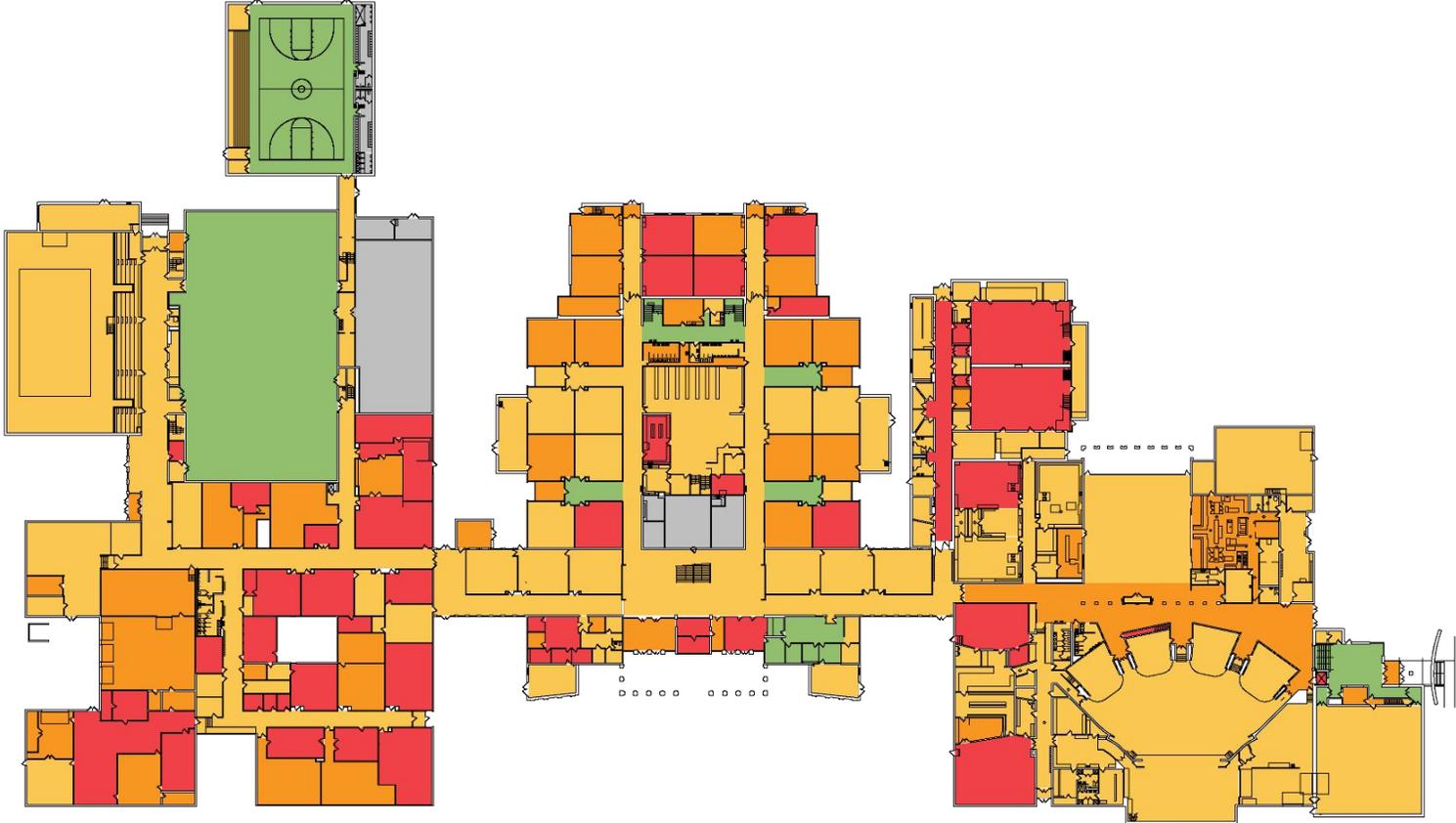


Site Deficiencies

1. ADA parking stall exceeds 2% slope in any direction. cracking and joint differential in excess of 1/2 inch.
- 2A. No accessible route to any location
- 2B. Accessible route exceeds 2% cross slope. cracking and joint differential in excess of 1/2 inch.
3. Accessible parking and route: Cross slope in excess of 2%
4. Accessible route: Longitudinal slope in excess of 5%. Cross slope in excess of 2%
5. ADA parking stall exceeds 2% slope in any direction. Cracking and joint differential in excess of 1/2 inch.

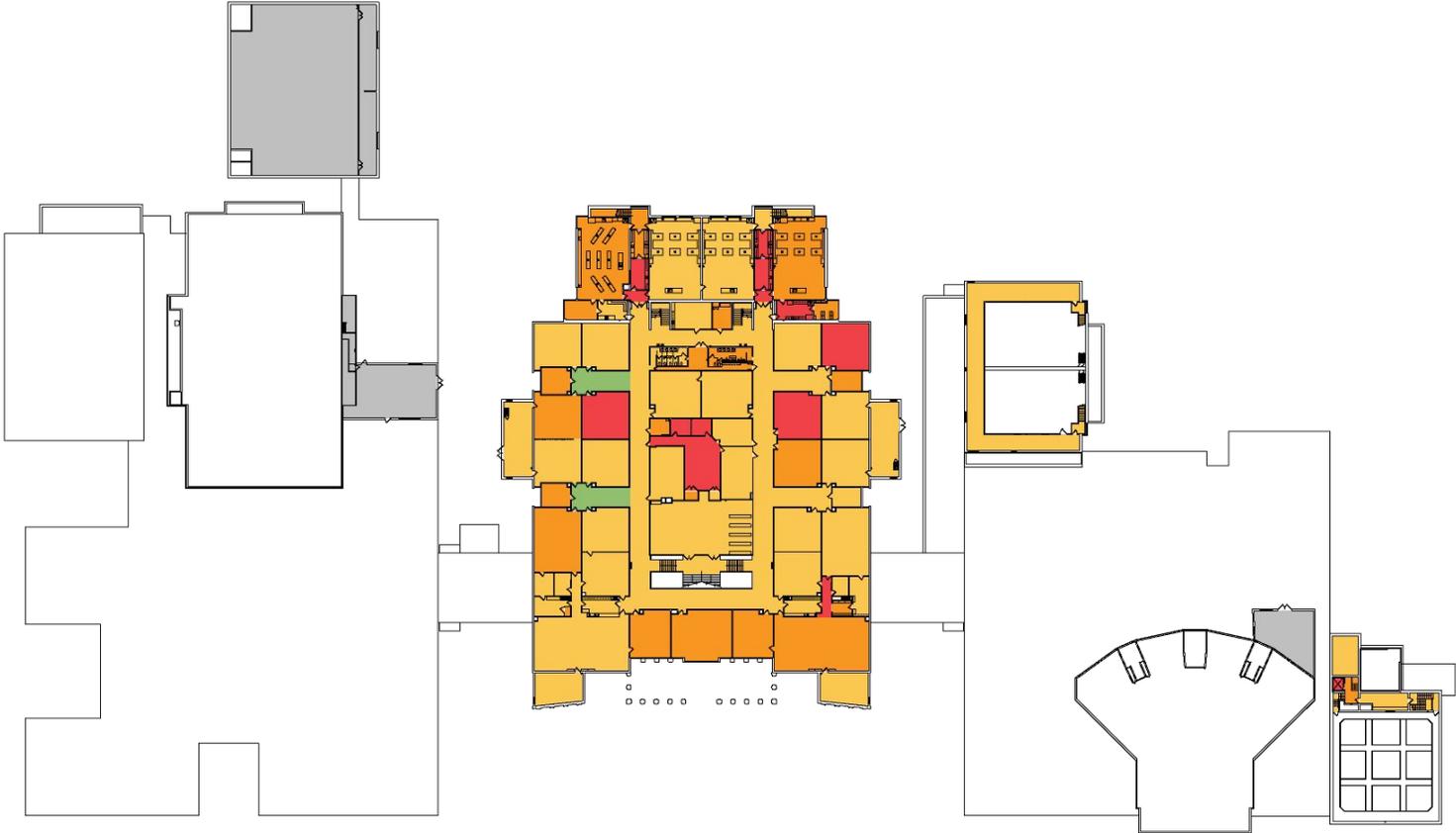


Floor Assessment / Kennedy High School



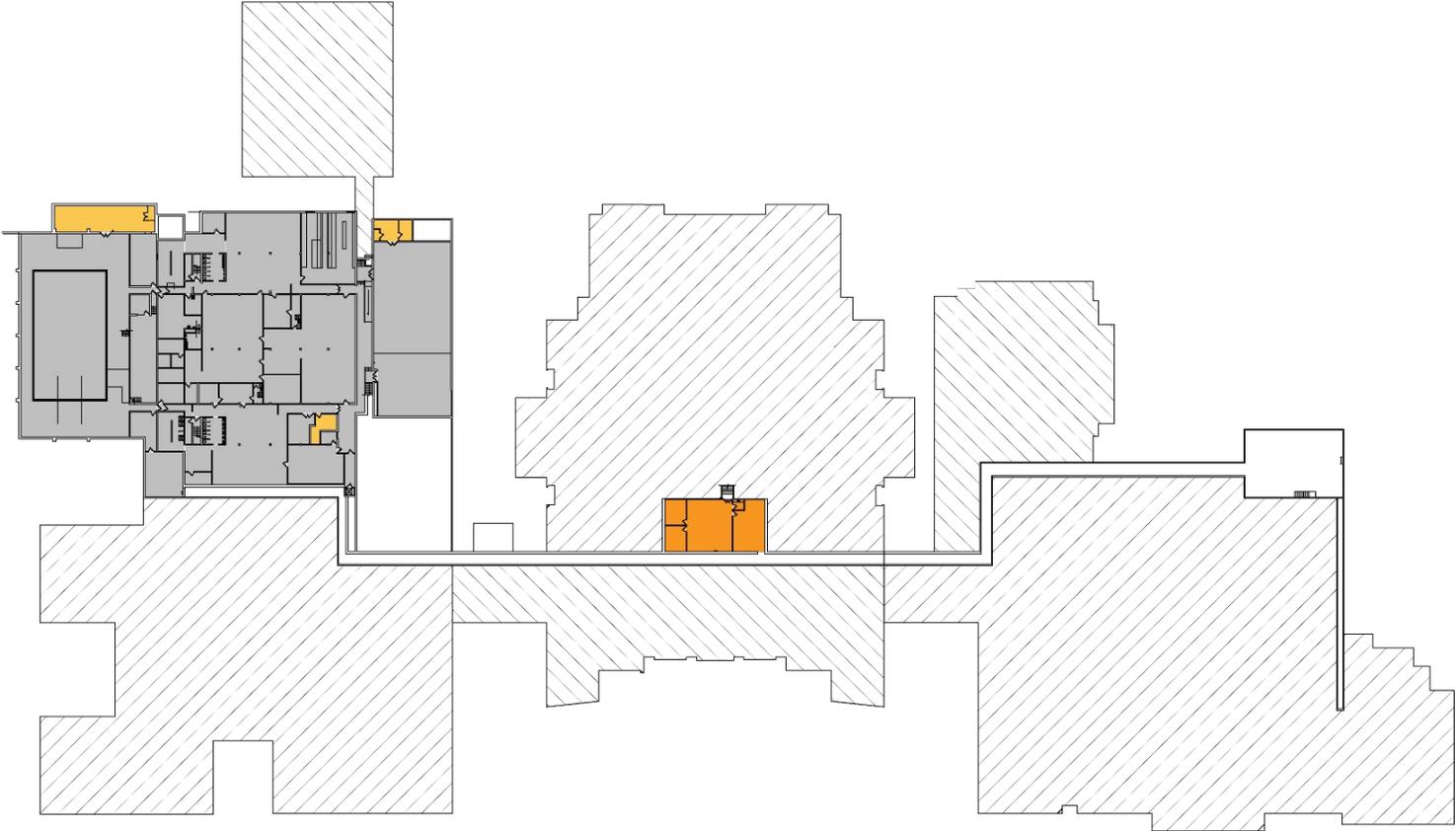
⊖ Level 1

Floor Assessment / Kennedy High School



⊖ Level 2

Ceiling Assessment / Kennedy High School



⊖ Lower Level

Ceiling Assessment / Kennedy High School



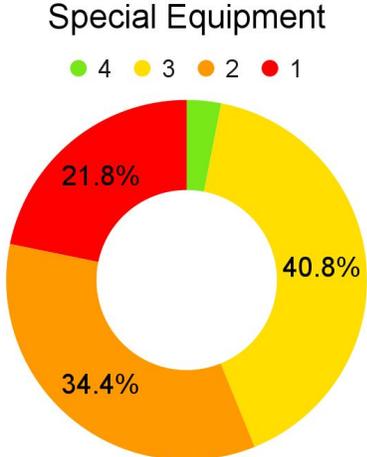
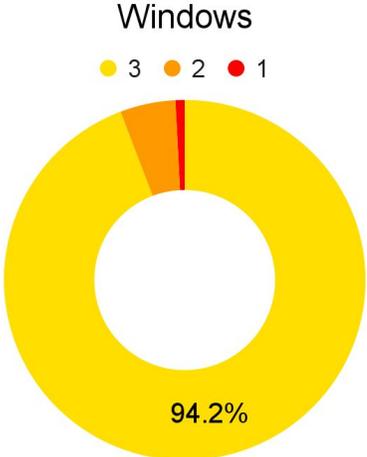
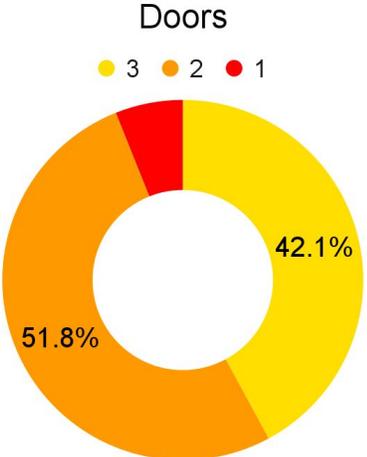
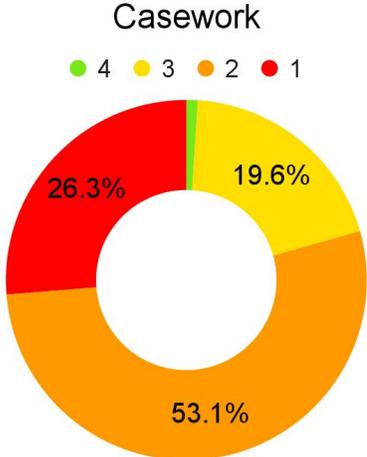
⊖ Level 1

Ceiling Assessment / Kennedy High School

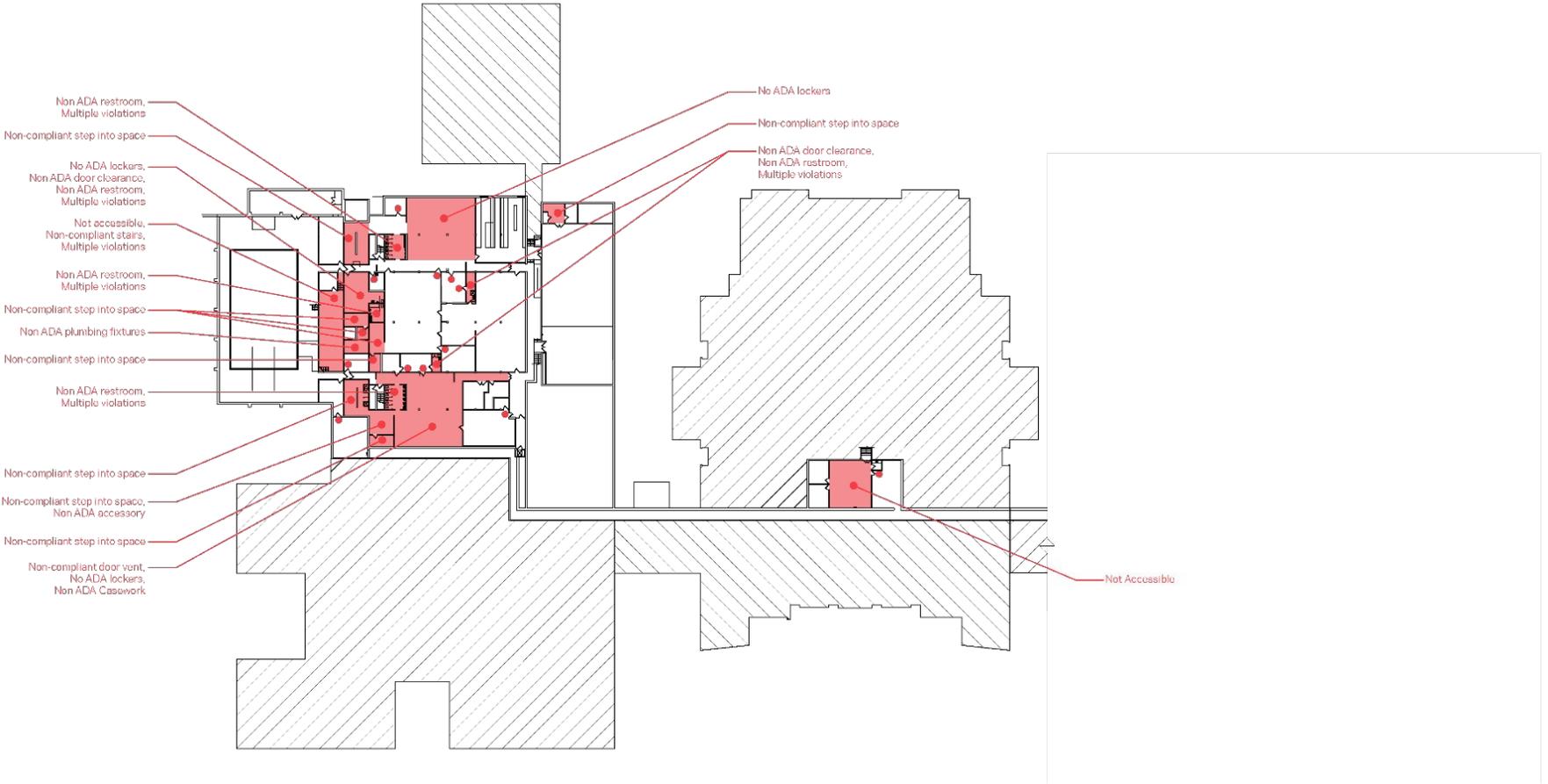


⊖ Level 2

Additional Assessments / Kennedy High School

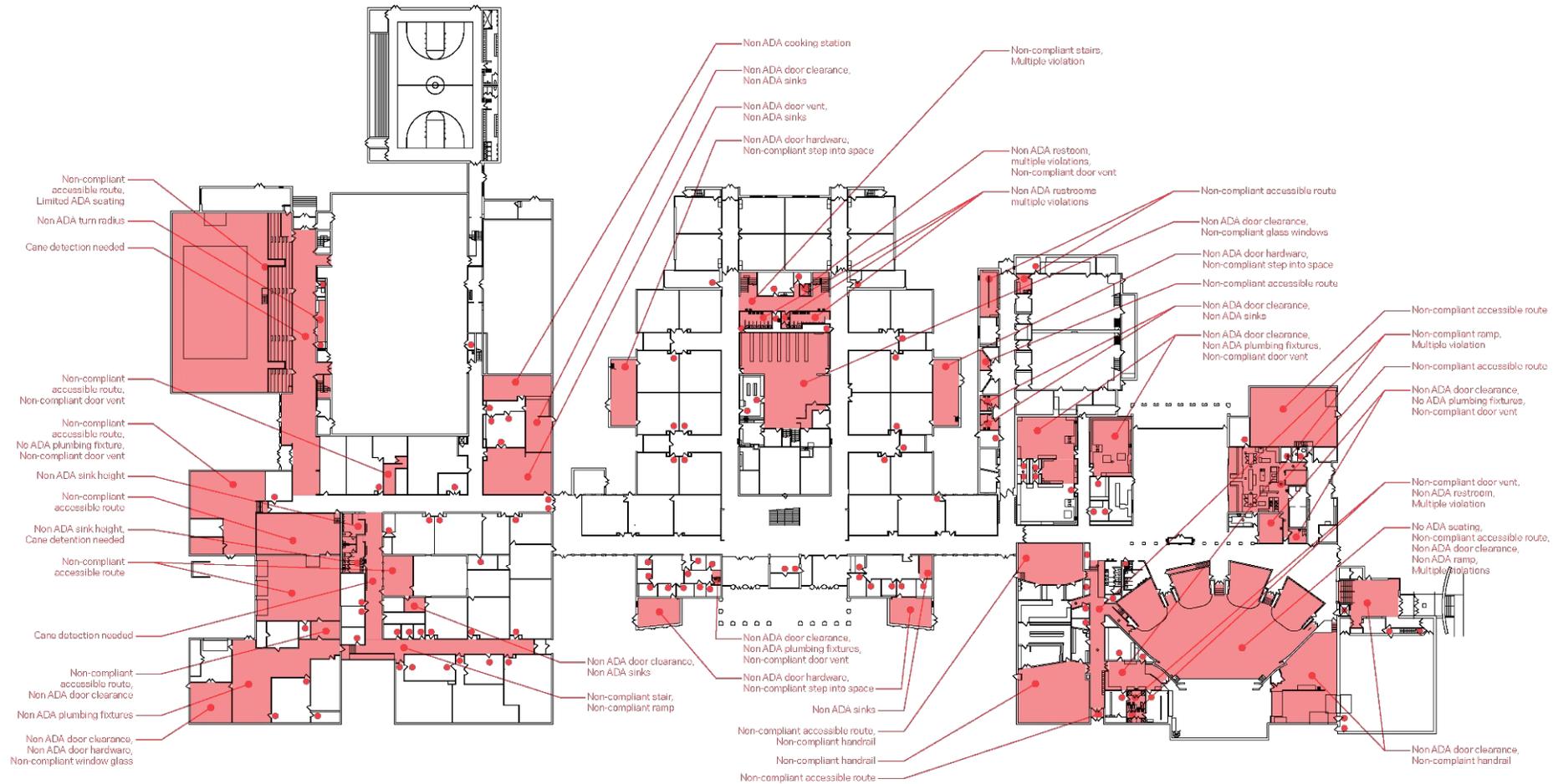


ADA/Code Compliance



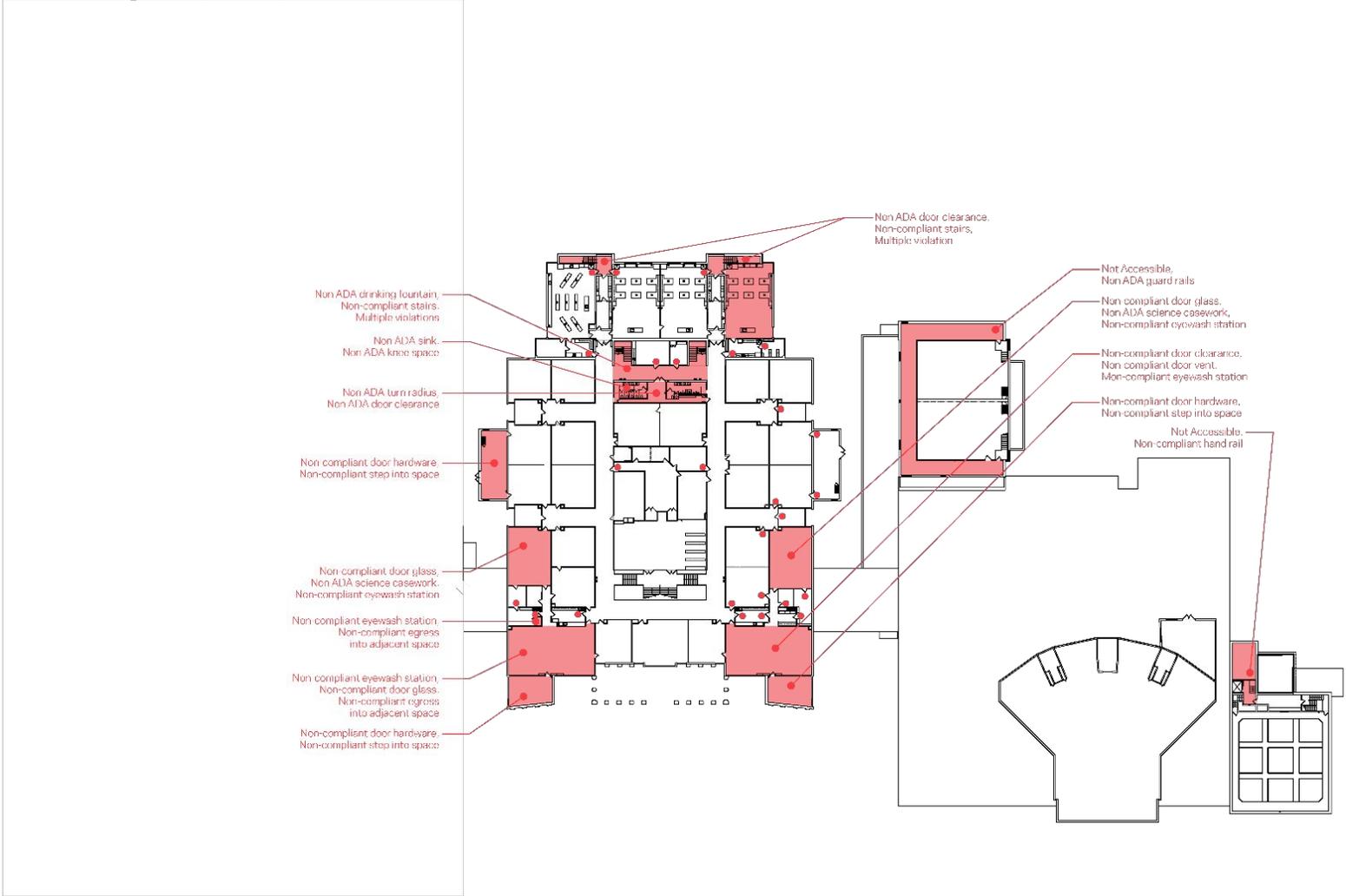
⊖ Lower Level

ADA/Code Compliance



Level 1

ADA/Code Compliance



⊖ Level 2

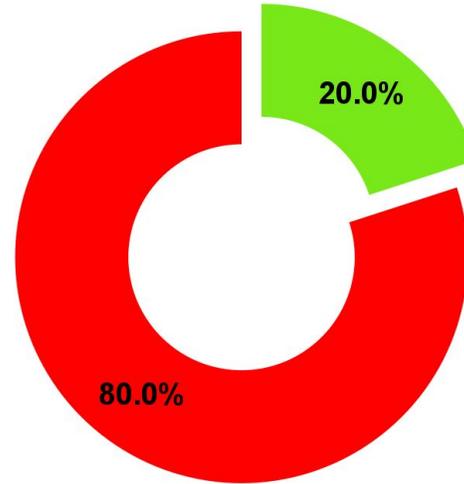
ADA/Code Compliance

1. Non-compliant entrances to classrooms
2. Non-compliant fixtures and stalls in restrooms
3. Non ADA casework and sinks
4. Non-compliant stairs/guardrails and handrails
5. Non-compliant accessible route to classrooms
6. Non-compliant locker room showers, restrooms, and lockers
7. Non-compliant ramp slope and handrails
8. Non-compliant floor level change
9. Rooms or areas are inaccessible or not accessible through typical route
10. Food service equipment insufficient and past life expectancy

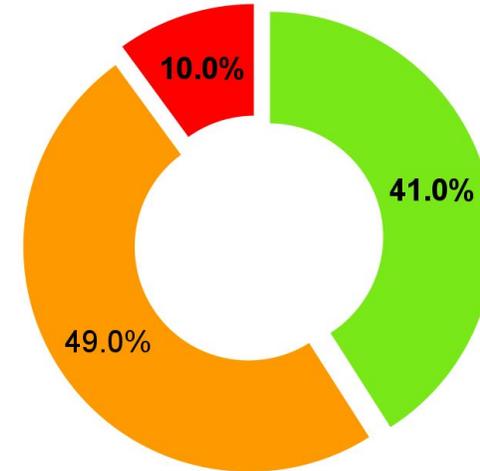
Mechanical

| Fire Suppression | |
|------------------------------------|-------------|
| Science & Fine Arts | Good |
| Main building | No Coverage |
| Plumbing | |
| Fixtures | Adequate |
| Supply Piping | Adequate |
| Drain Piping | Adequate |
| Vent Piping | Replace |
| HVAC | |
| Main Bldg Terminal Heat Pumps | Replace |
| Ventilation Air Handling Equipment | Refurbish |
| Sci / Fine Arts HVAC | Replace |
| HVAC Piping | Good |
| HVAC Controls | Replace |
| Geothermal Wells | Good |

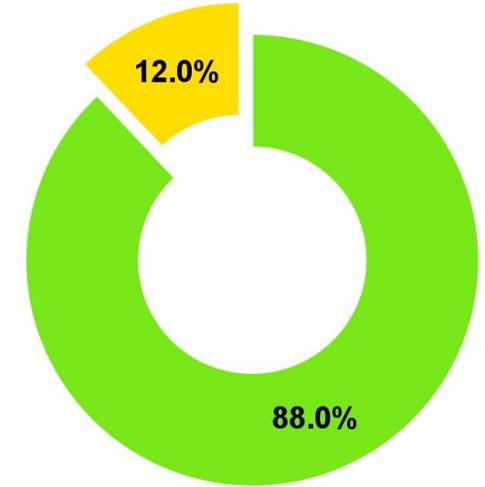
Fire Suppression



HVAC



Plumbing

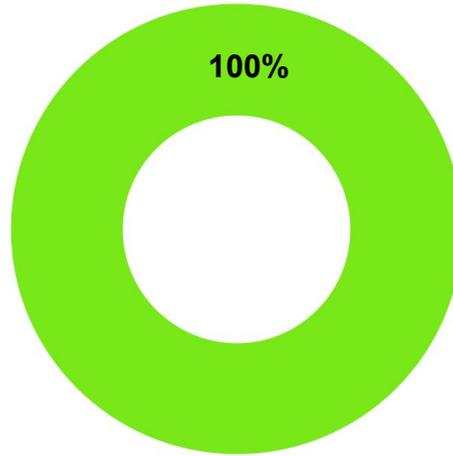


| KEY | |
|-----------|-----------|
| Very Poor | 0-5 yrs |
| Poor | 5-10 yrs |
| Fair | 10-15 yrs |
| Good | 15-20 yrs |

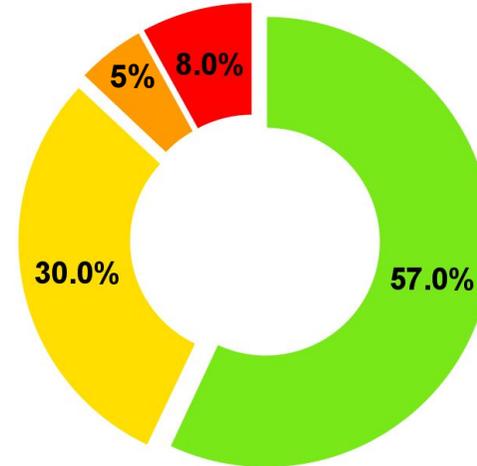
Electrical

| | System | Notes |
|-------------------|---|-----------------|
| ELECTRICAL | General Lighting & Controls | Partial Upgrade |
| | Theater Lighting & Controls | Upgrade |
| | Emergency Light Systems | Adequate |
| | Power System - Substations | Good |
| | Power System - Substations | Replace 2 |
| | Power System - Branch Panels 1965 Vintage | Replace |
| | Power System - Branch Panels 1980 & Newer | Adequate |
| TECH. | IT Network | Replace |
| | Clocks | Replace |
| | Paging System | Good |
| | Classroom A/V System | Replace |
| SAFETY & SECURITY | Door Entry Station | Good |
| | Access Control | Adequate |
| | Cameras | Adequate |
| | Fire Alarm | Good |

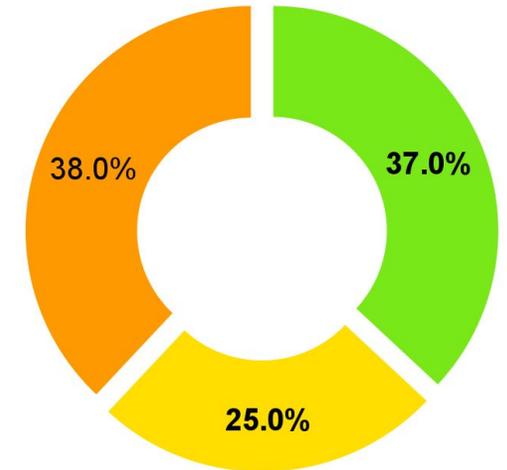
Safety and Security



Electrical



Technology



| KEY | |
|-----------|-----------|
| Very Poor | 0-5 yrs |
| Poor | 5-10 yrs |
| Fair | 10-15 yrs |
| Good | 15-20 yrs |

Assessment Cost

| | | |
|-----------------------|-----------------|----------------------|
| Site Improvements | \$ 164,600 | |
| Building Exterior | \$ 1,245,612 | |
| Interior Deficiencies | \$ 5,128,757 | |
| Mechanical | \$ 8,419,586 | |
| Electrical | \$ 3,683,000 | |
| Food Service | \$ 894,634 | |
| General Conditions | \$ 1,181,568 | |
| | SUBTOTAL | \$ 20,874,360 |

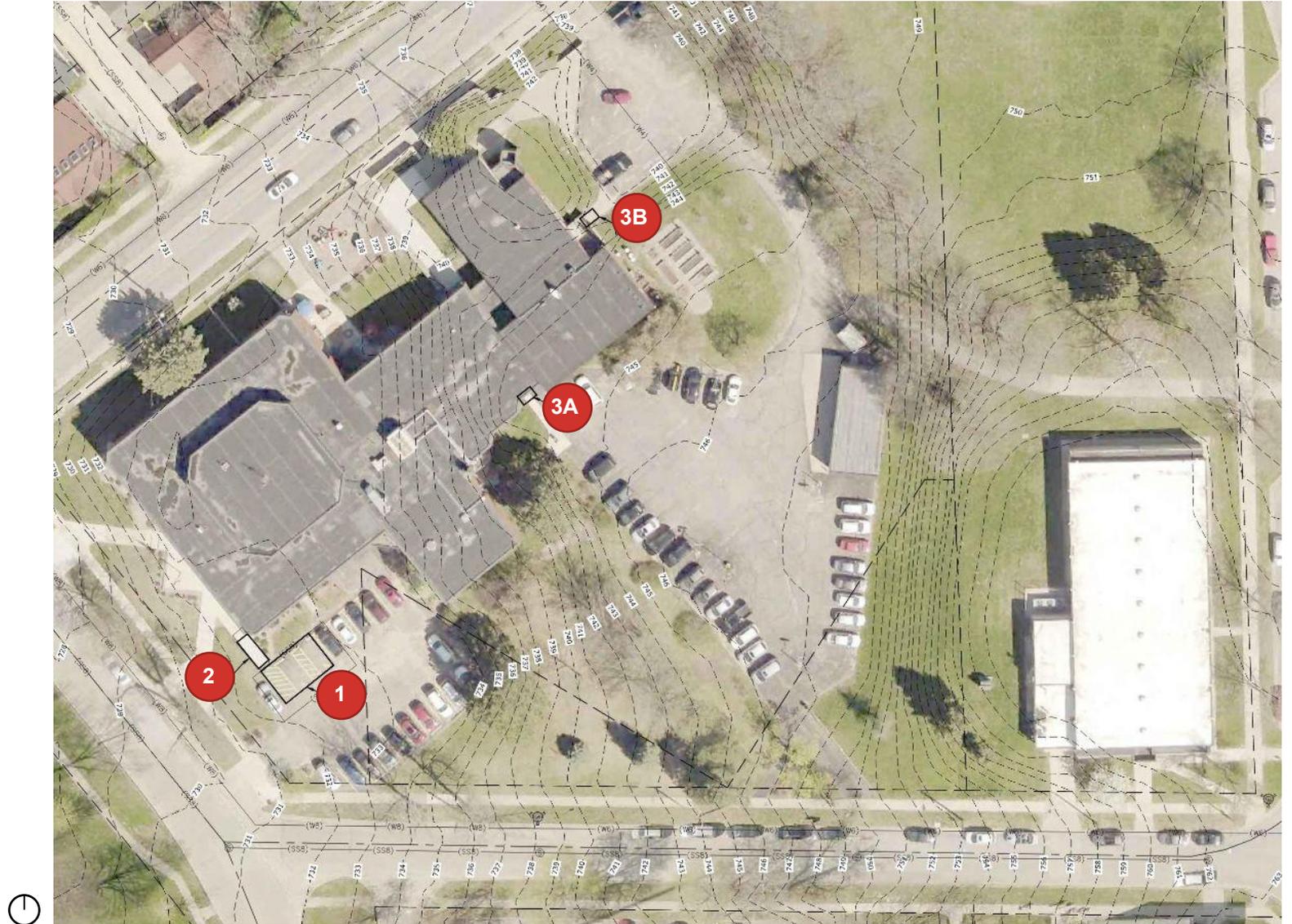
Metro High School

44,450 GSF SCHOOL SIZE
745 NSF AVG CLASSROOM

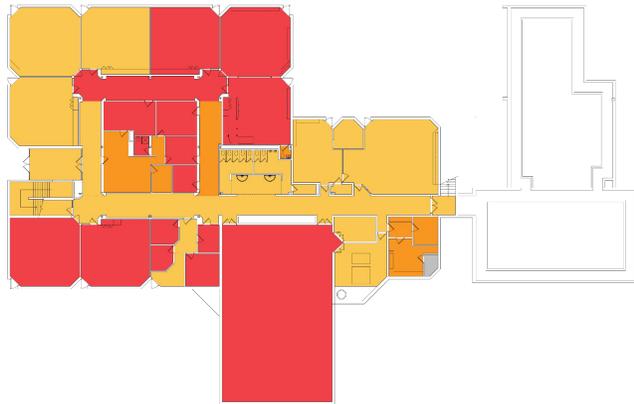


Site Deficiencies

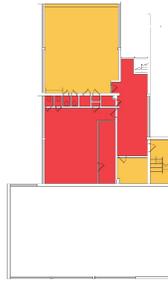
1. ADA parking stall exceeds 2% slope in any direction
2. Accessible route: longitudinal slope exceeds 5%, cross slope exceeds 2%
3. Non-compliant egress - elevation differential in excess of 1/2 inch



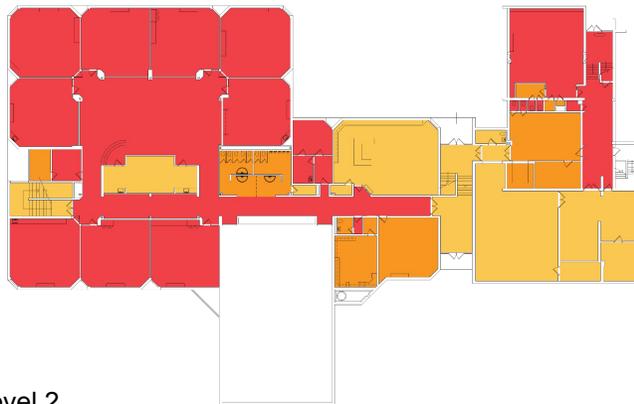
Floor Assessment / Metro High School



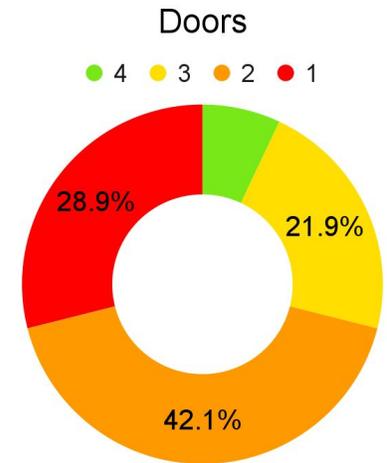
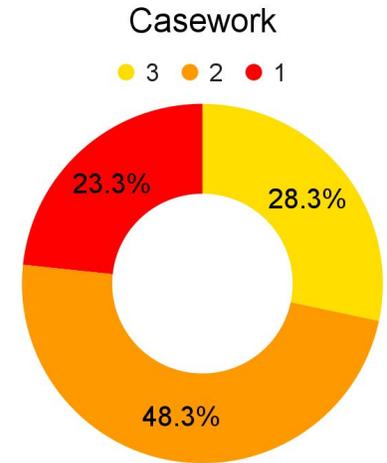
Level 1



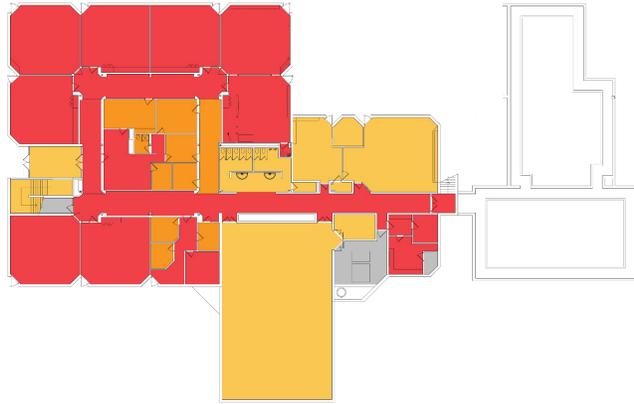
Level 3



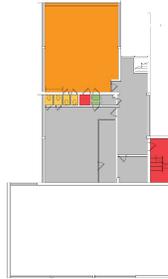
Level 2



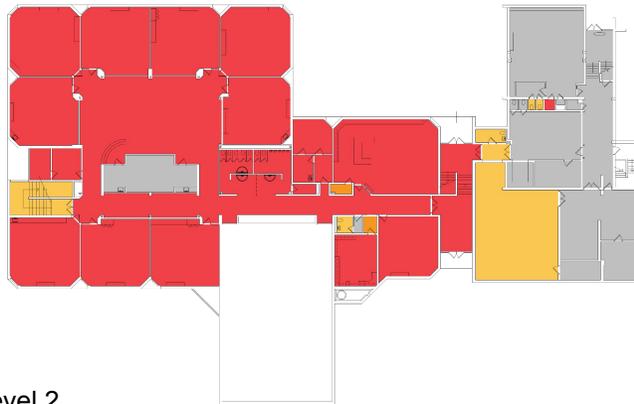
Ceiling Assessment / Metro High School



Level 1



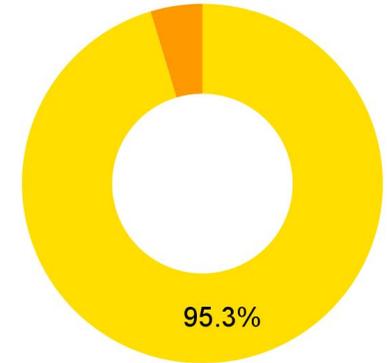
Level 3



Level 2

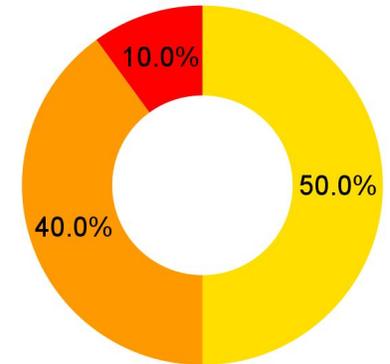
Windows

● 3 ● 2



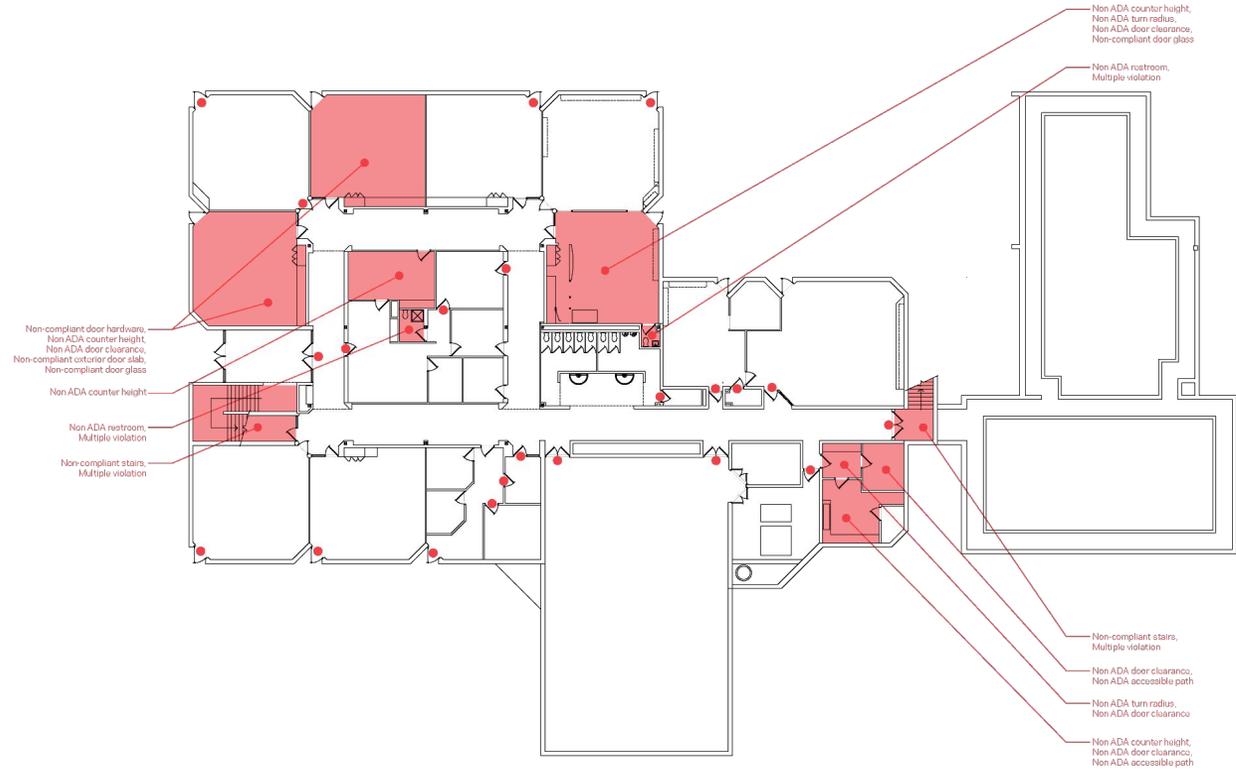
Special Equipment

● 3 ● 2 ● 1



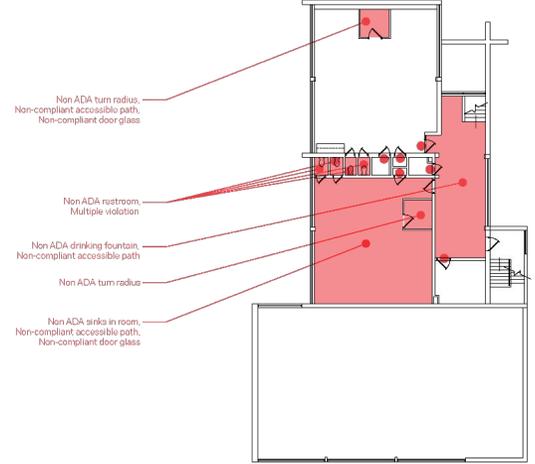
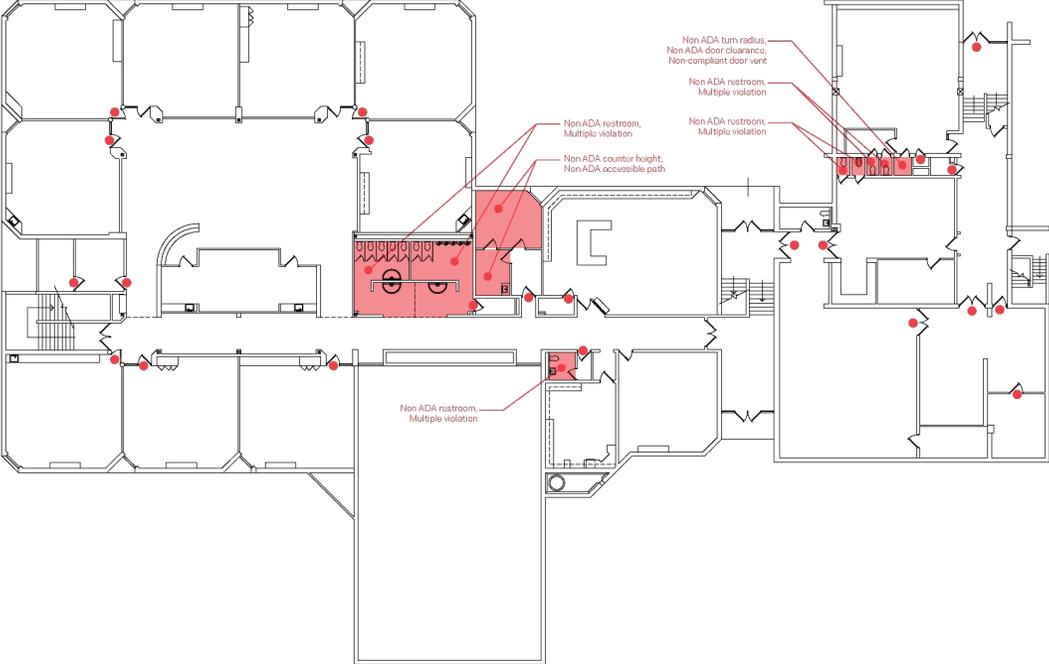
ADA/Code Compliance

1. Non-compliant entrances to classrooms
2. Non-compliant entrances to exterior from classrooms
3. Non-compliant fixtures and stalls in restrooms
4. Non-compliant stairs/guardrails and handrails
5. Non-compliant casework and sinks
6. Non-compliant drinking fountains
7. Rooms or levels that are inaccessible or not accessible through typical route



Level 1

ADA/Code Compliance



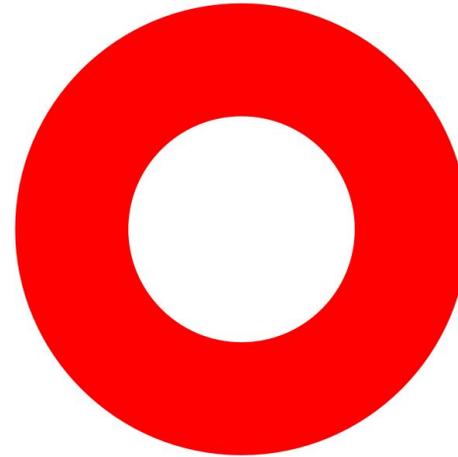
Level 2

Level 3

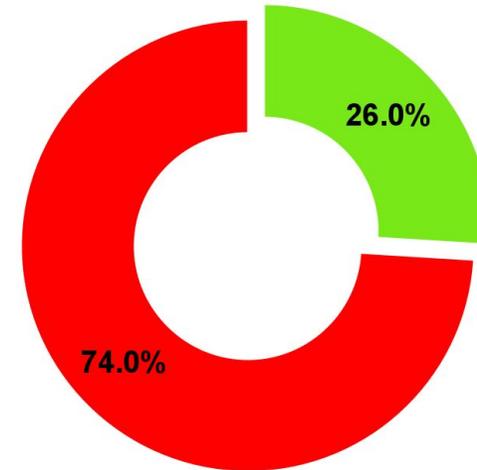
Mechanical

| Fire Suppression | |
|--------------------------------|-------------|
| Main building | No Coverage |
| Plumbing | |
| Fixtures | Adequate |
| Supply Piping | Replace |
| Drain Piping | Replace |
| Vent Piping | Replace |
| HVAC | |
| Unit Ventilators | Replace |
| Chiller | Good |
| Boiler | Replace |
| Gym AHU | Replace |
| Office RTU | Replace |
| Dedicated Chilled Water Piping | None |
| Dual Temperature Piping | Adequate |
| Controls | Replace |

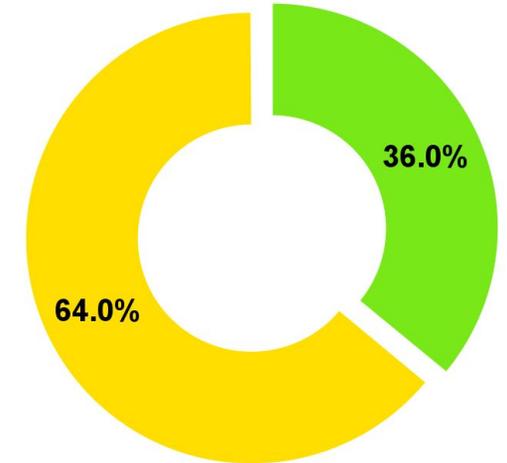
Fire Suppression



HVAC



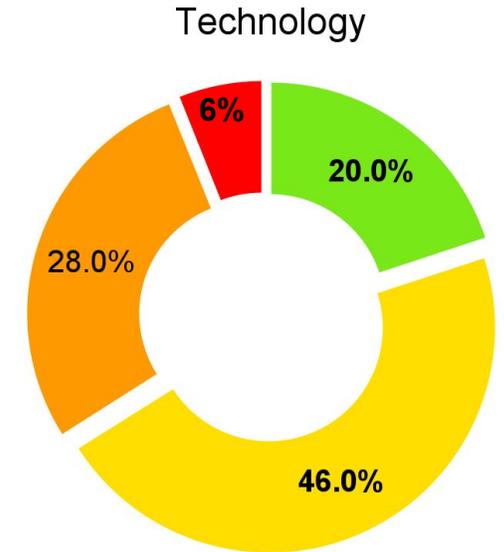
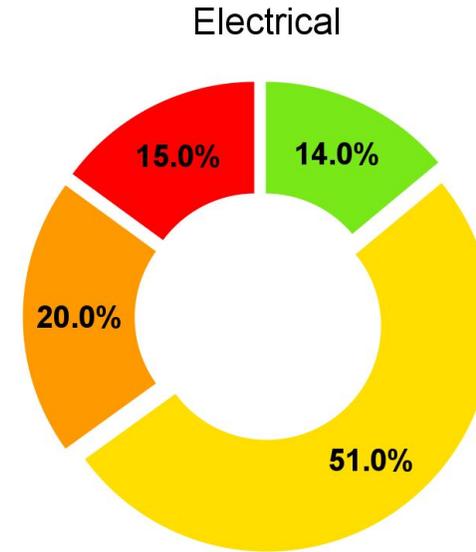
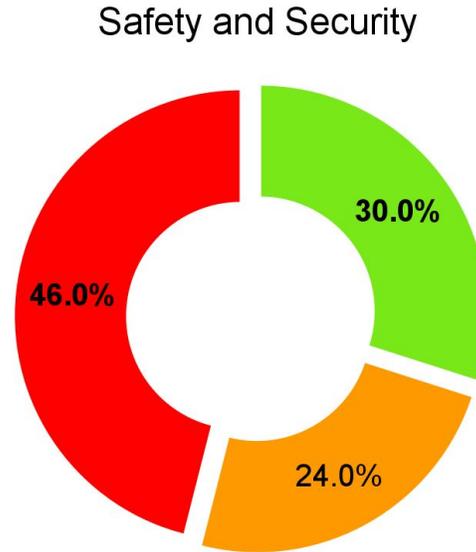
Plumbing



| KEY | |
|-----------|-----------|
| Very Poor | 0-5 yrs |
| Poor | 5-10 yrs |
| Fair | 10-15 yrs |
| Good | 15-20 yrs |

Electrical

| | System | Notes |
|-------------------|---|----------|
| ELECTRICAL | General Lighting & Controls | Upgrade |
| | Emergency Light Systems | Adequate |
| | Power System - 208V Service | Replace |
| | Power System - Branch Panels 1980 & Older | Replace |
| | Power System - Branch Panels 1980 & Newer | Adequate |
| TECH. | IT Network | Replace |
| | Clocks | Replace |
| | Paging System | Replace |
| | Classroom A/V System | Replace |
| SAFETY & SECURITY | Door Entry Station | Poor |
| | Access Control | Adequate |
| | Cameras | Adequate |
| | Fire Alarm | Replace |



| KEY | |
|-----------|-----------|
| Very Poor | 0-5 yrs |
| Poor | 5-10 yrs |
| Fair | 10-15 yrs |
| Good | 15-20 yrs |

Assessment Cost

| | | | |
|-----------------------|----|-----------------|---------------------|
| Site Improvements | \$ | 16,850 | |
| Building Exterior | \$ | 1,372,909 | |
| Interior Deficiencies | \$ | 1,452,479 | |
| Mechanical | \$ | 2,003,000 | |
| Electrical | \$ | 938,000 | |
| Food Service | \$ | 0 | |
| General Conditions | \$ | 346,232 | |
| | | SUBTOTAL | \$ 6,130,232 |

Total Assessment Cost

| | | |
|-------------------|---------------------|----------------------|
| Washington | \$23,765,588 | |
| Jefferson | \$26,612,671 | |
| Kennedy | \$20,874,360 | |
| Metro | \$ 6,130,232 | |
| Franklin | \$35,916,871 | |
| Mckinley | \$32,828,014 | |
| Roosevelt | \$34,231,876 | |
| Wilson | \$30,975,857 | |
| Harding | \$ 8,674,136 | |
| Taft | \$ 8,169,152 | |
| | SUBTOTAL | \$228,178,757 |

Group Activity



Any Surprises?

Have enough data?

Group Activity



Any “Big picture” thoughts or ideas?

Elementary Discussion