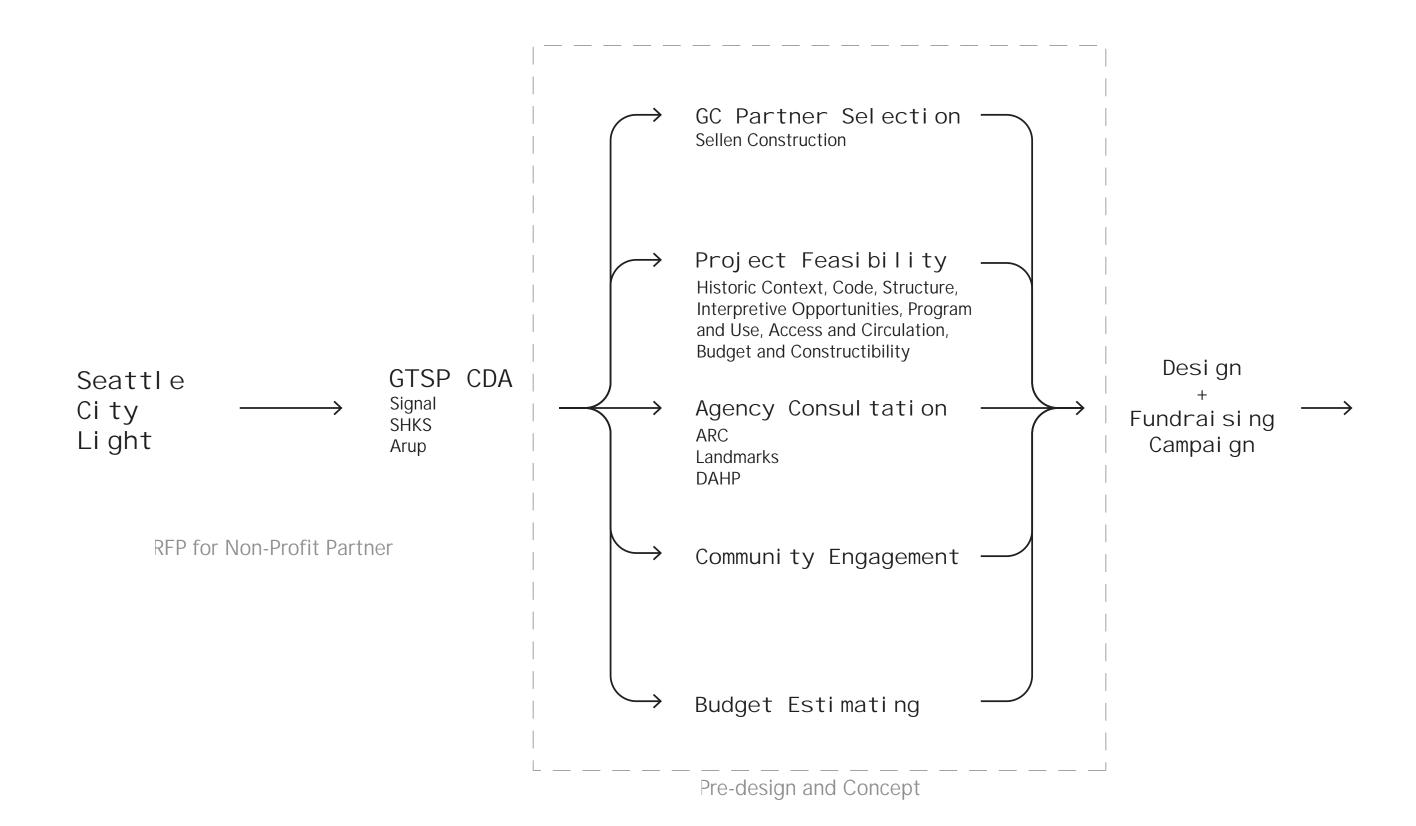




Project Briefng #4: June 2023
Georgetown Steam Plant

## Who are we and Why are we here?



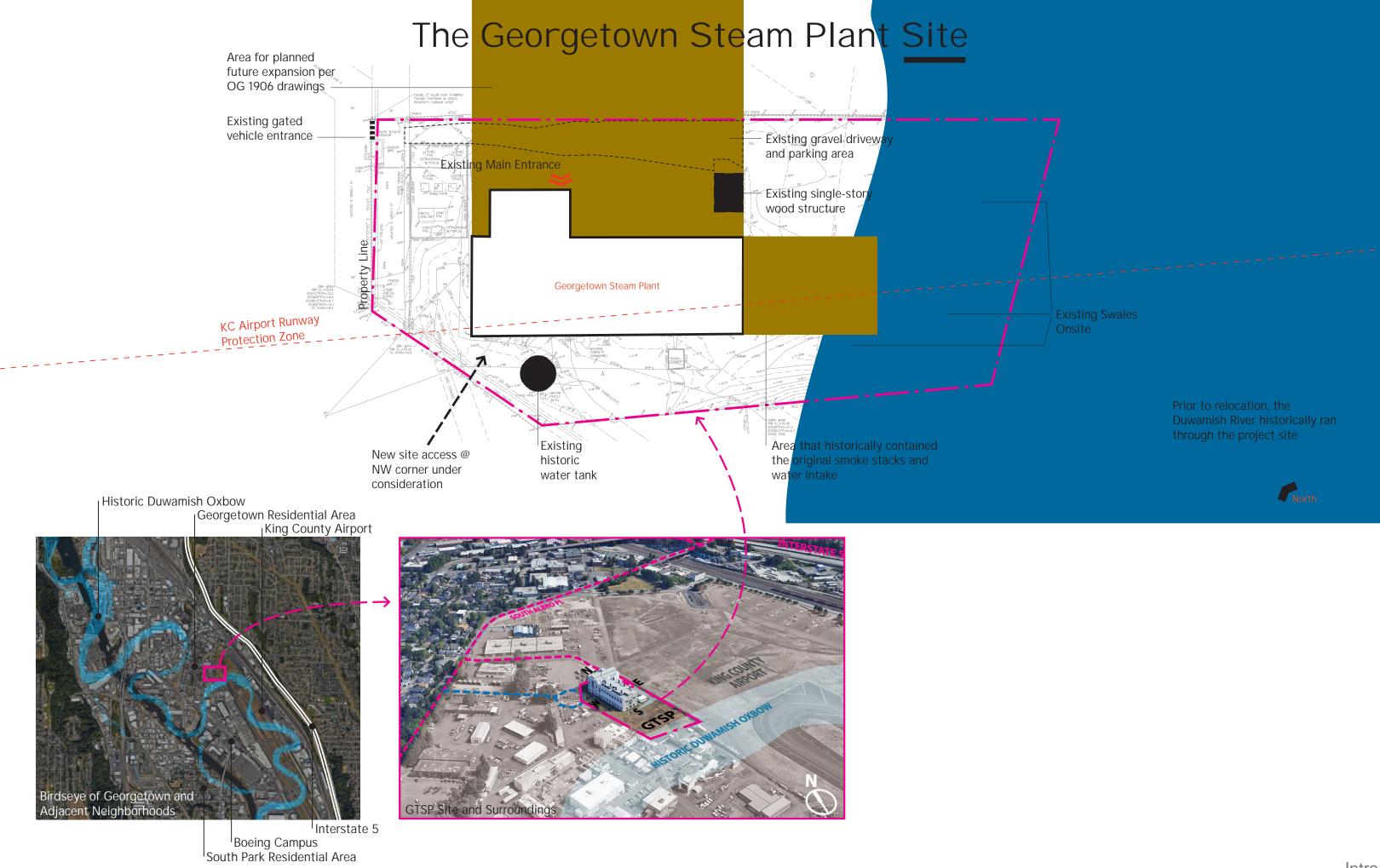
What are the goals of the project?

Tell the stories of the Georgetown Steam Plant Activate through reprogramming, life safety, and seismic improvements Provide universal access to all spaces What is the purpose of <u>Today</u>'s meeting?

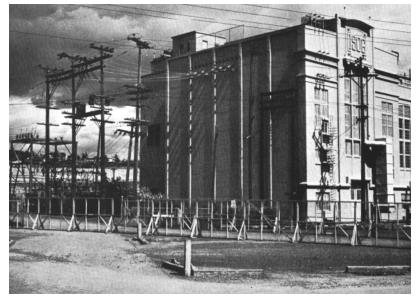
Communicate the project's program considerations.

Share the team's potential approaches to configuring program.

Gather feedback and support

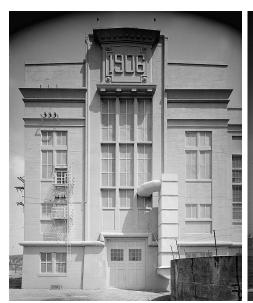


# What is the Georgetown Steam Plant? What's inside it?











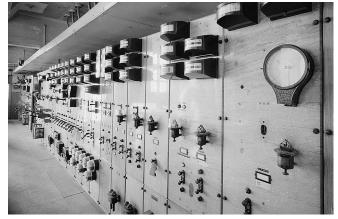
North Elevation

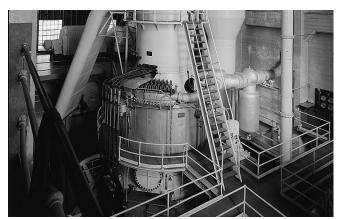
East Elevation

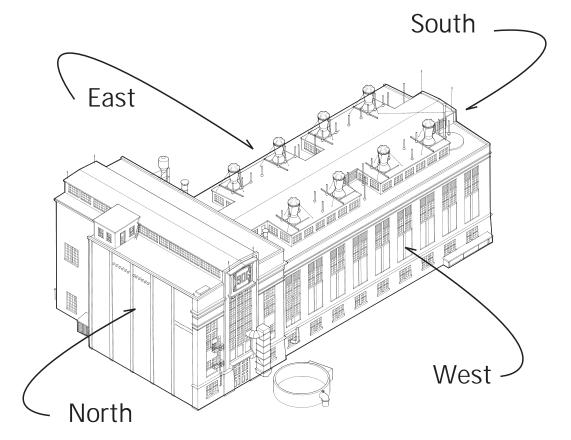
South Elevation

West Elevations





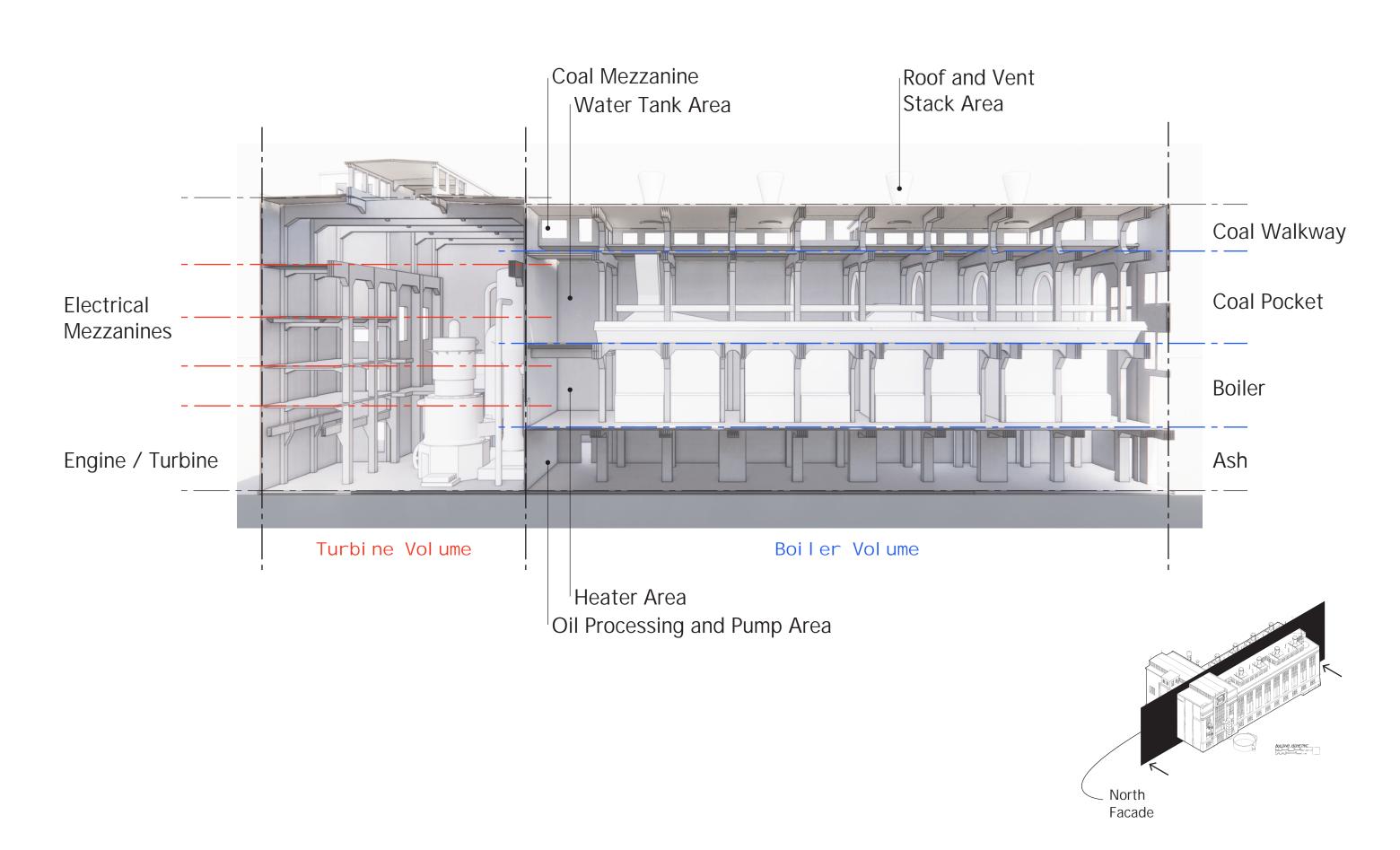




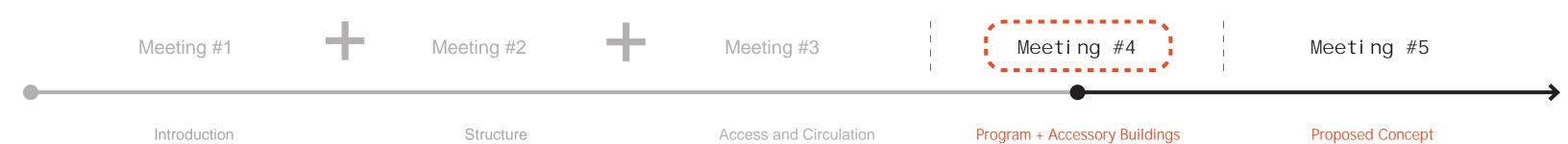




# Navigating the Georgetown Steam Plant



# Planning for Subsequent Meetings



## Landmarks Brie ng #1: Introduction

Visual Summary of Former Briefings

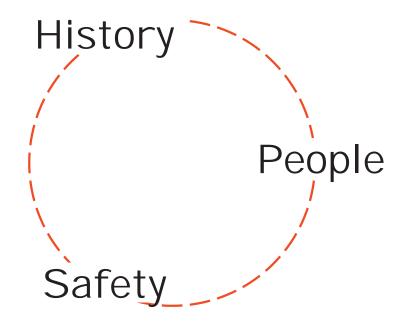
## Project Goals

- 1. Tell the Stories of the Georgetown Steam Plant
- 2. Activate through Reprogramming, Life Safety, and Seismic Improvements
- 3. Provide Universal Access to all Spaces

Key Project Considerations Secretary of the Interior's Standards for Rehabilitation

Access, Circulation, Life Safety

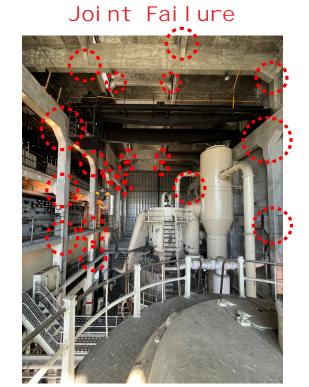
Seismic Retrofit



## Landmarks Brie ng #2: Approach to Seismic Upgrades

Visual Summary of Former Briefings

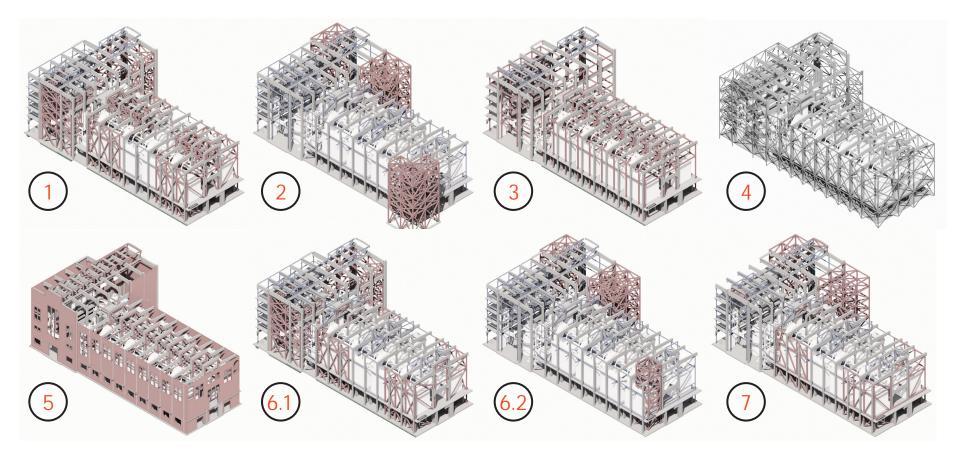
Structural Risks







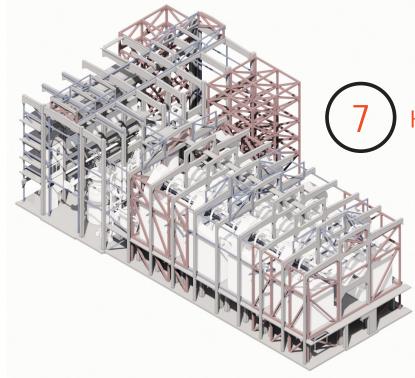
Studies Explored



## Landmarks Brie ng #2: Approach to Seismic Upgrades

Visual Summary of Former Briefings

## Preferred Approach



Hybrid Braced Frames

- Exterior braces at NE of building
- Interior braces at boiler volume

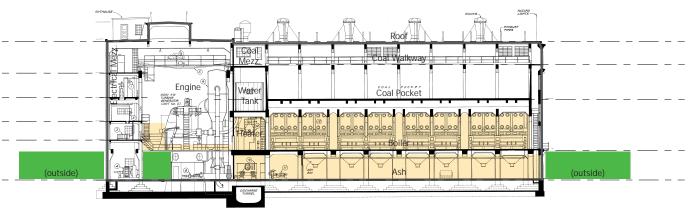
Next Steps

- 1. Understand the challenges and potential solutions of seismic bracing requirements at a local scale.
- 2. Identify and explore opportunities to compliment required seismic bracing with required program.
- 3. Preliminary design, integrated concept, and proposed materiality in the next project design phase: Schematic Design.

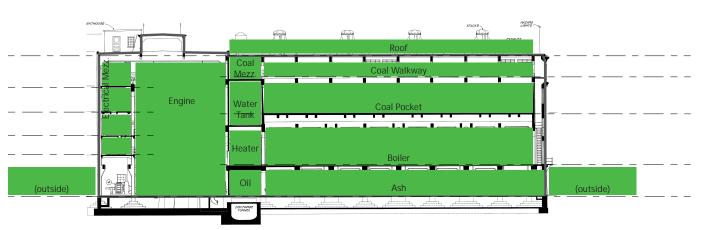
## Landmarks Brie ng #3: Approach to Access and Circulation

Visual Summary of Former Briefings

## Access Challenges



Existing Access



Proposed Vision

## **Access Components**









full public access

partial public access

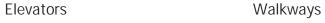
Innovation Powerhouse, Netherlands

Structure

Battersea Power Station, UK



Stairs



# Possible Access Conf gurations



- Every Study Requires At Least (3) Stairs
- 1. Universal Accessibility is a clear critical value of this work.
- 2. The east elevations appear to be more appropriate for new project work than the west elevations.
- 3. There are character-defining features in the steam plant (such as the boilers) that have multiple examples; using one to contribute to access and learning opportunities is a valuable consideration.
- 4. It is understood that while the exterior and the interior are both protected, the most valuable experiences for visitors occur within the interior. It is important that the project team communicates proposed changes to the board so that the values and impacts are well understood.

## Feedback

Are there any clarifying questions?

Landmarks Briefng #4: Program

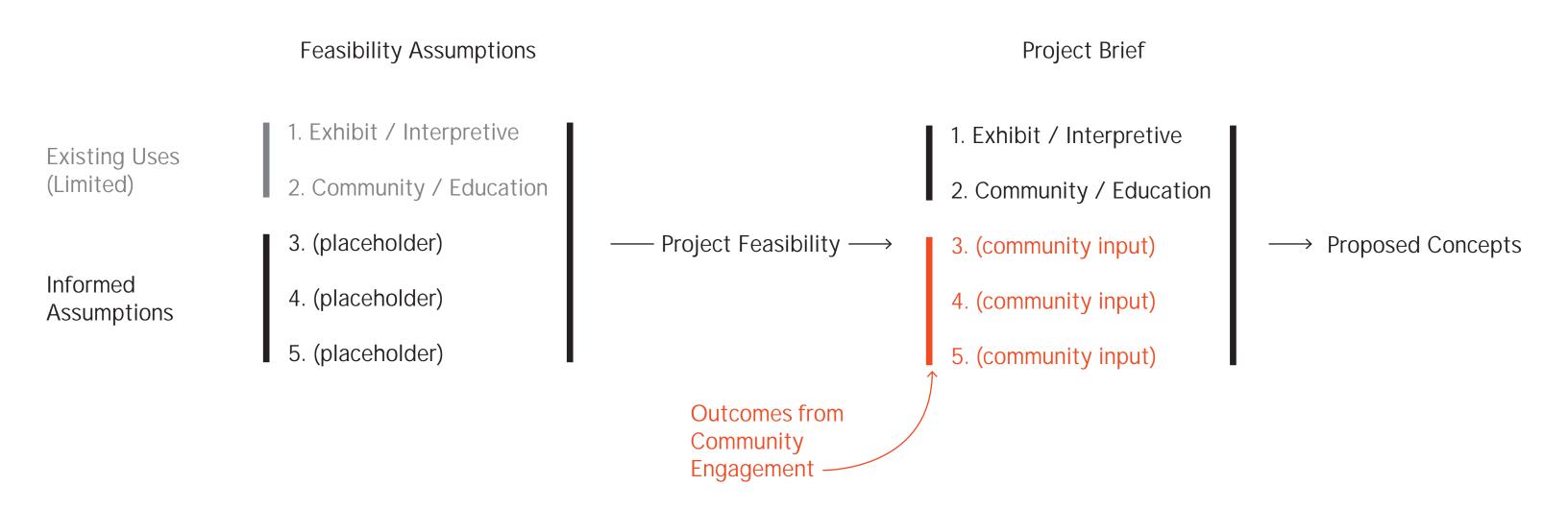
## Today's Agenda

- 1 Project Recap:
   Opportunites and Constraints
- 2 Program Considerations:
  - Si te Experience Considerations
  - Usage Throughout the Day
  - Typical Requirements and Assumptions
- 3 Layout Possibilities

4 Questions and Next Steps

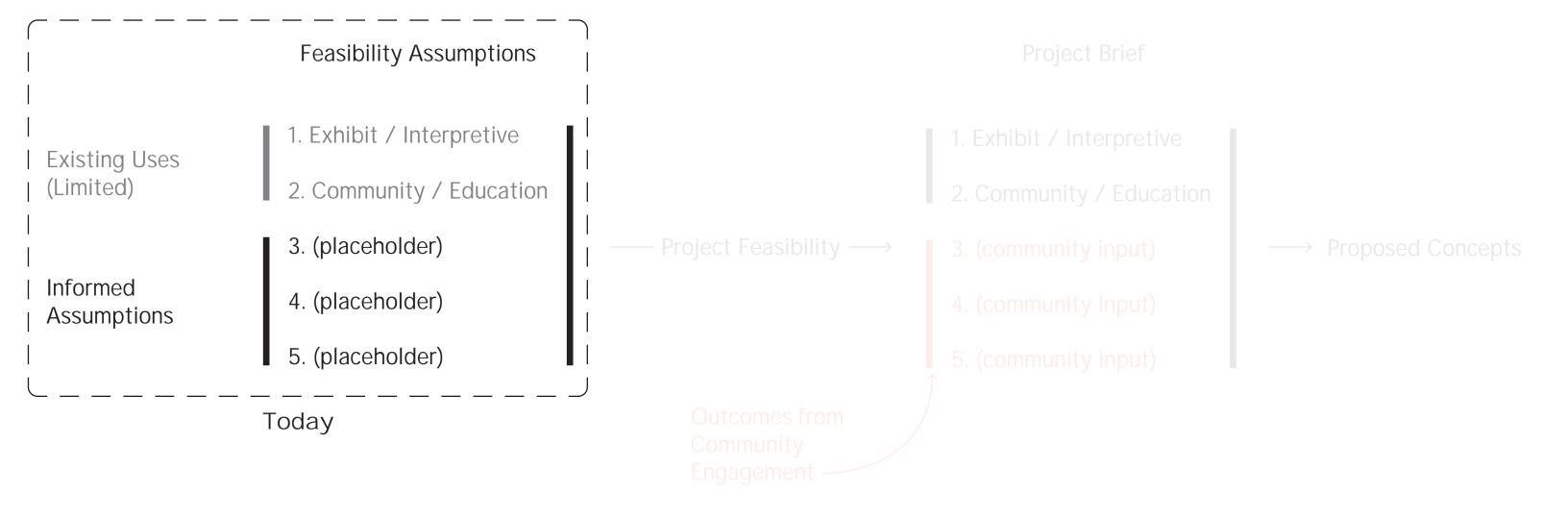
## Program Development Approach

Project Recap



## Program Development Approach

Project Recap



## Criteria for Expanding Use Reminder Slide from Landmarks Briefing #3

### Critical Project Values:

1 Universal Access What degree of equitable access is being provided?

2 History What are the impacts to the character-defining historic features?

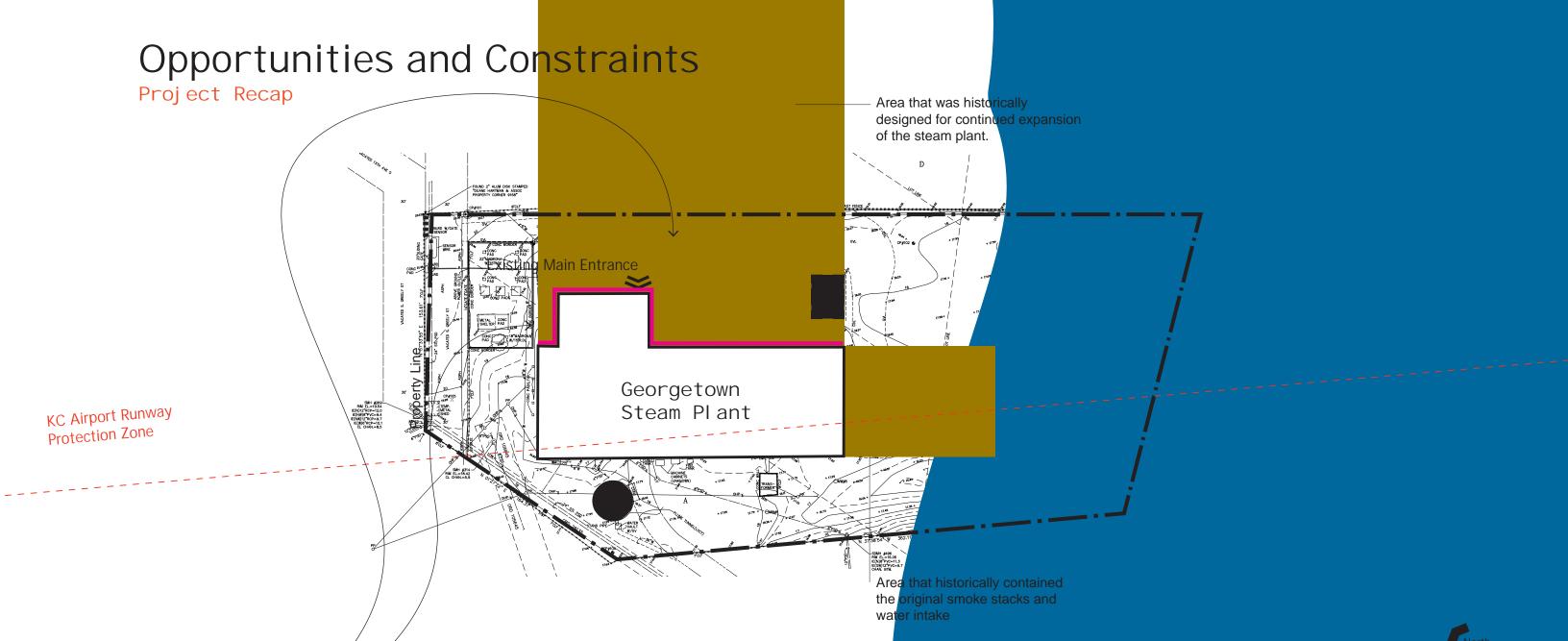
3 Outcome Is the proposed work creating significant merit?

4 Utility How compatible is the proposed work with other parts of the project?

5 Feasibility Will a potential solution or construction approach be cost-prohibitive?

## Project Requirements:

- 1 Utilize the Secretary of the Interior's Standards for Rehabilitation
- 2 Provide Seismic Upgrades to the Building
- 3 Meet safety and egress requirements per code



From a historical perspective, there are exterior elevations that appear to be more appropriate for accepting new infrastructure required for expanded occupancy.

- Area always intended for expansion
- Materials clearly differ from reinforced concrete
- Elevations do not contain the ornamentation of the south and west elevations.

Project Recap

 Area that was historically designed for continued expansion of the steam plant.

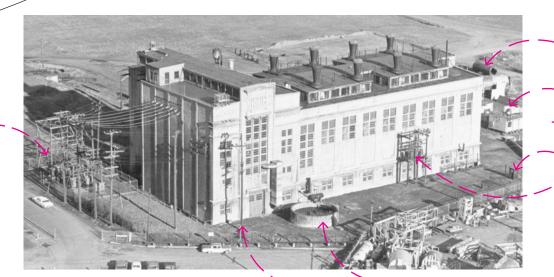


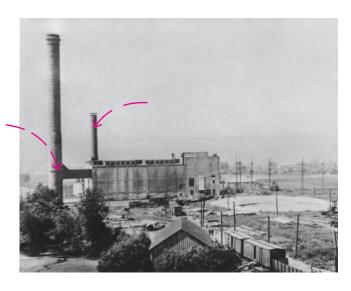
KC Airport Runway Protection Zone

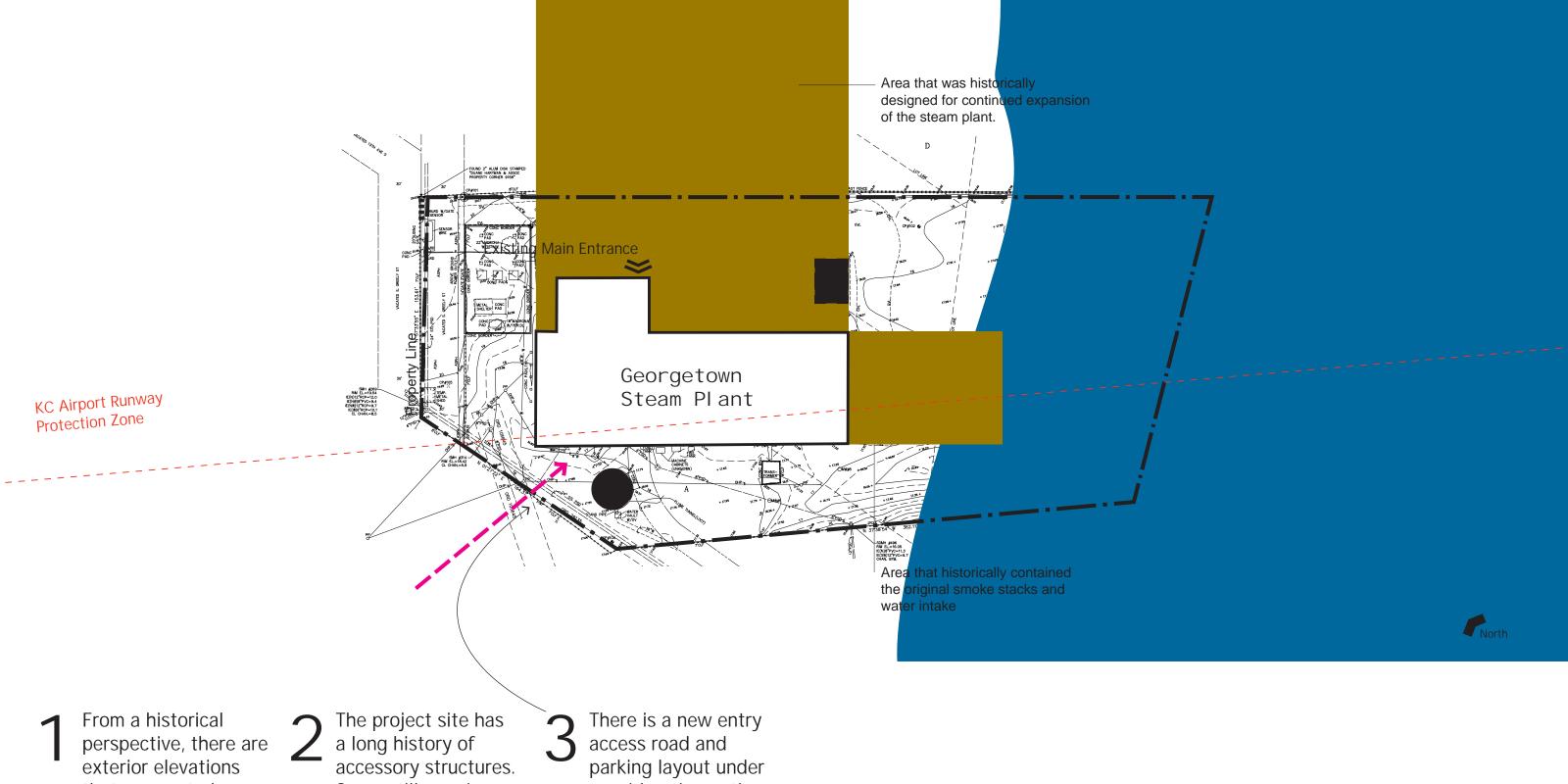
Area that historically contained the original smoke stacks and water intake

Prom a historical perspective, there are exterior elevations that appear to be more appropriate for accepting new infrastructure required for expanded occupancy.

The project site has a long history of accessory structures and features. Some still remain today.







that appear to be more appropriate for accepting new infrastructure required for expanded occupancy.

Some still remain today.

consideration @ the NW corner of the site. (By SCL and others)

Project Recap



North

- Prom a historical perspective, there are exterior elevations that appear to be more appropriate for accepting new infrastructure required for expanded occupancy.
- The project site has a long history of accessory structures. Some still remain today.
- There is a new entry access road and parking layout under consideration @ the NW corner of the site. (By SCL and others)
- The building needs additional structure to address seismic bracing.
  (Briefing #2)

Project Recap

Area that was historically designed for continued expansion of the steam plant.



Trom a historical perspective, there are exterior elevations that appear to be more appropriate for accepting new infrastructure required for expanded

occupancy.

KC Airport Runway Protection Zone

The project site has a long history of accessory structures. Some still remain today.

There is a new entry access road and parking layout under consideration @ the NW corner of the site. (By SCL and others)

The building needs additional structure to address seismic bracing.
(Briefing #2)

Universal Access requires stairs, elevators, and circulation infrastructure. We can strategically try to pair these with the required structure. (Briefing #3)

Project Recap

Area that was histodesigned for continuous of the steam plant.





Prom a historical perspective, there are exterior elevations that appear to be more appropriate for accepting new infrastructure required for expanded occupancy.

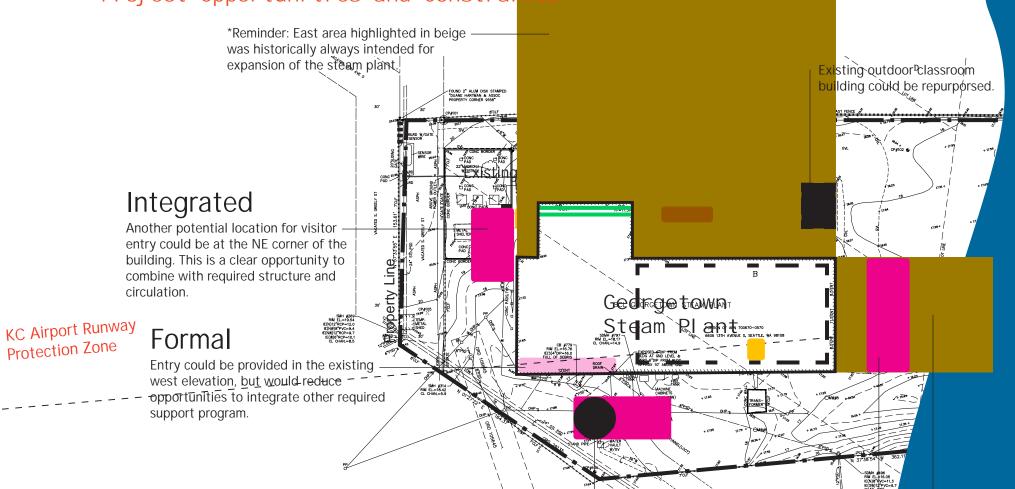
KC Airport Runway

Protection Zone

- The project site has a long history of accessory structures. Some still remain today.
- There is a new entry access road and parking layout under consideration @ the NW corner of the site. (By SCL and others)
- The building needs additional structure to address seismic bracing.
  (Briefing #2)
- Universal Access requires stairs, elevators, and circulation infrastructure. We can strategically try to pair these with the required structure. (Briefing #3)
- The experience and role of the site and building can change depending on where you enter the building, and for what purposes.

## Site Experience Considerations

Project Opportunities and Constraints



Independent

Existing water cistern is a leftover accessory structure that already occupies an advantageous location for welcoming visitors prior to entry into the main building.

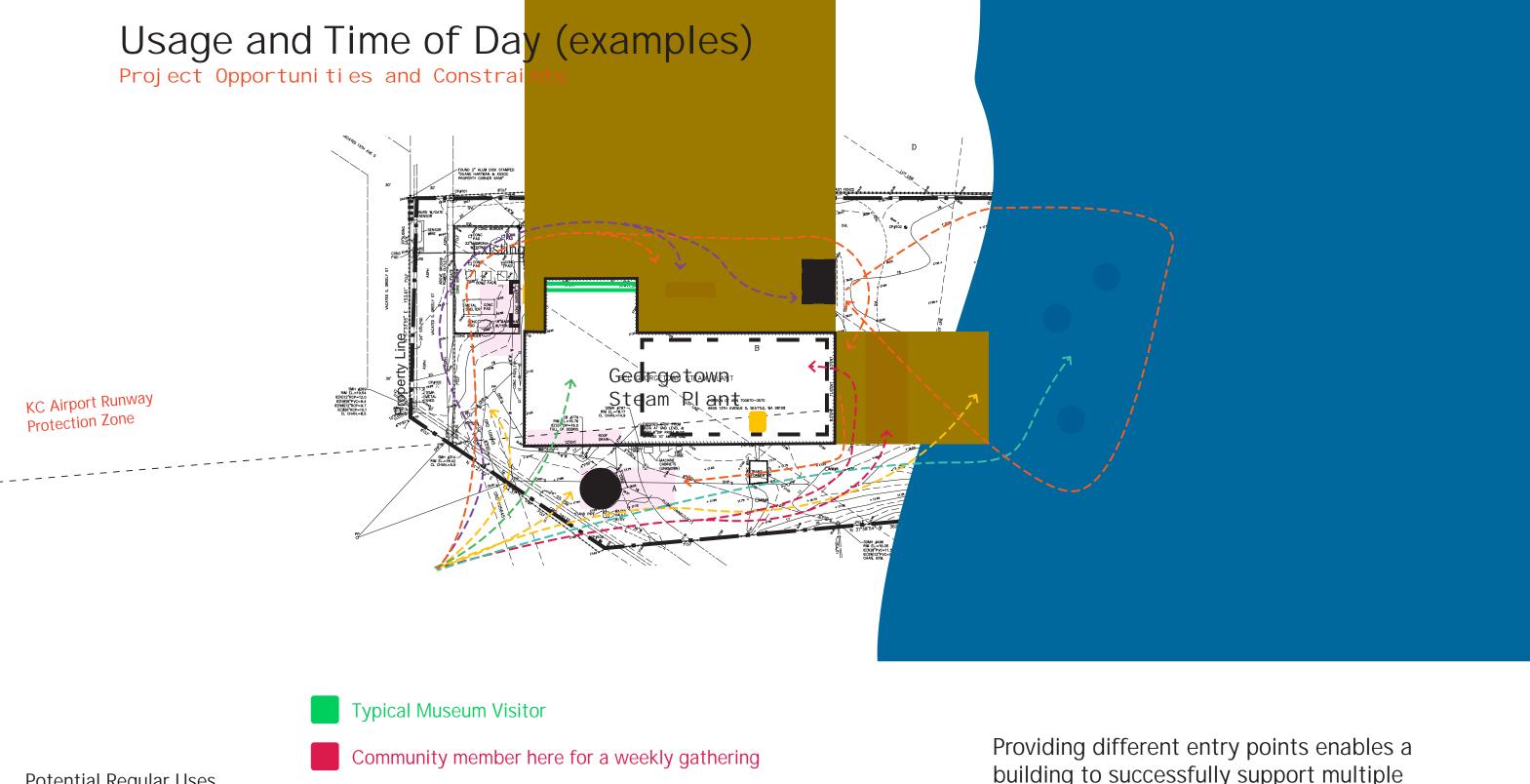
Integrated site features could be a key interpretive experience outside of the building.

\*Reminder: South area highlighted in beige was historically the location of many accessory structures required for the functioning of the steam plant.

The south end of the building and site provide the largest opportunity for exterior programming. This could be supported with additional covered space. This could also be a way to provide multiple entry points for different types of visitor / staff uses.

The experience and role of the site and building can change depending on where you enter the building, and for what purpose.





Potential Regular Uses

Student here for a class

Staff starting arriving for their closing shift

Visitor here for night time art walk

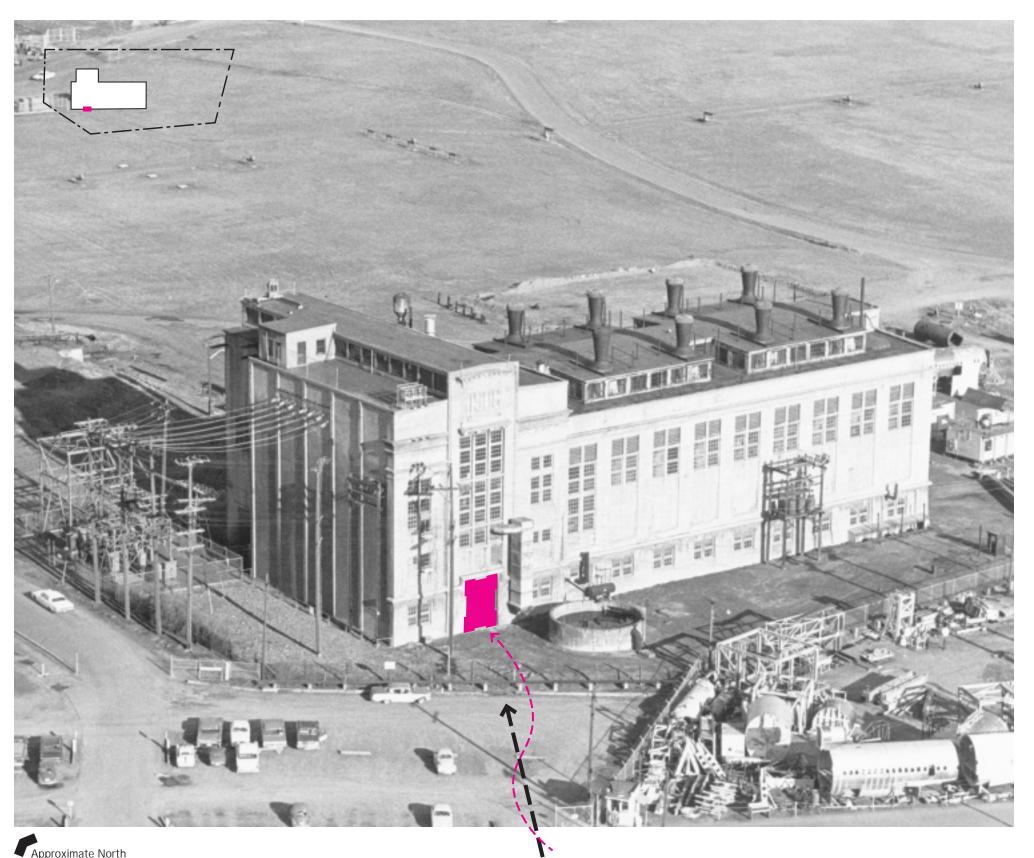
Potential Occasional Uses

Regular building and site maintenance

Providing different entry points enables a building to successfully support multiple functions simultaneously and cater to different audiences based on activity, time of day, or type of user.

## Zoom In: West Entry?

Si te Experience Considerations



## Scenario 1: The 'Final' Entry

#### **Key Strengths**

- Appears to have least impact on exterior site and west elevation.
- This scenario takes advantage of the proposed access road

#### **Key Flaws**

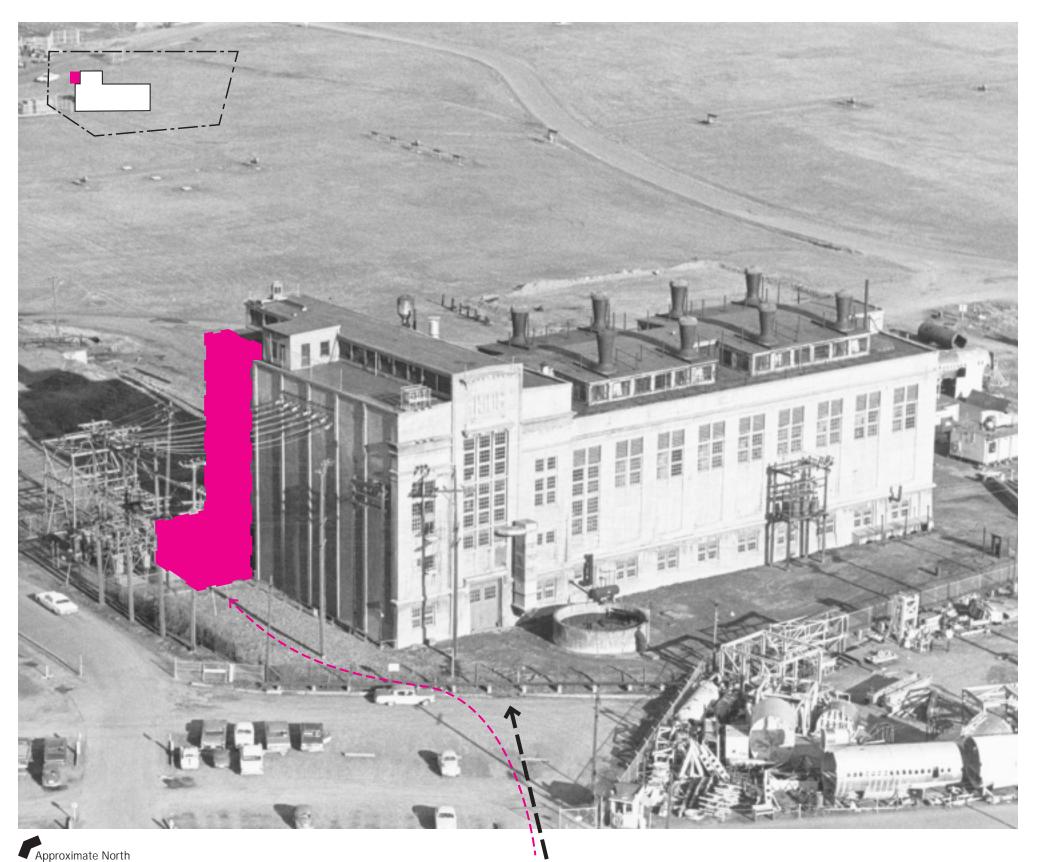
- Opportunity to combine with other required modifications is limited.
- Full extent of impacts to interior beyond historic doors is unknown, but required impacts are likely necessary for building entry and egress.
- Physical modifications may need to be made to the historic doors to meet code compliance.

#### Other Notes

 There are a few pairs of these oversized historic doors that provided function at the south and west facades

## Zoom In: North Entry?

Si te Experience Considerations



## Scenario 2: The North Elevation

#### **Key Strengths**

- Clear opportunity to pair with required seismic structure, exterior foundations, and vertical circulation
- Location is in line with where exterior accessory structures were located historically as well as where the steam plant was initially planned for expansion.
- Relatively discreet location

#### **Key Flaws**

- Visual impacts to multiple facades (primarily north and east, but also west approach)
- Site impact may potentially be greater than other scenarios to fully engage with the proposed access road.

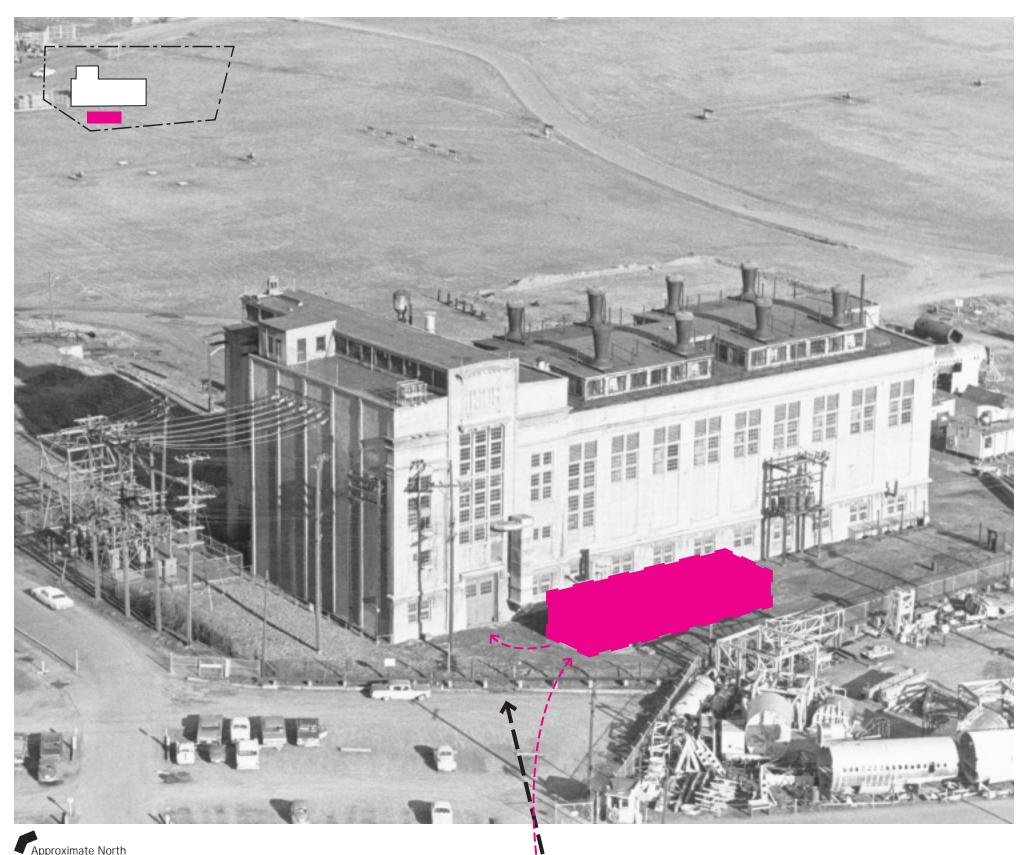
#### Other Notes

 Entry approach could compete with the final historic entry

Proposed Access Road

## Zoom In: Cistern Entry?

Si te Experience Considerations



## Scenario 3: The Cistern

#### Key Strengths

- Location is in line with where exterior accessory structures were historically located, the cistern in particular could create another strong interpretive opportunity.
- Independent structure divorces modifications and impact from the existing building.
- Strategic location does not have to compete with final historic entrance
- This scenario takes advantage of the proposed access road

#### Key Flaws

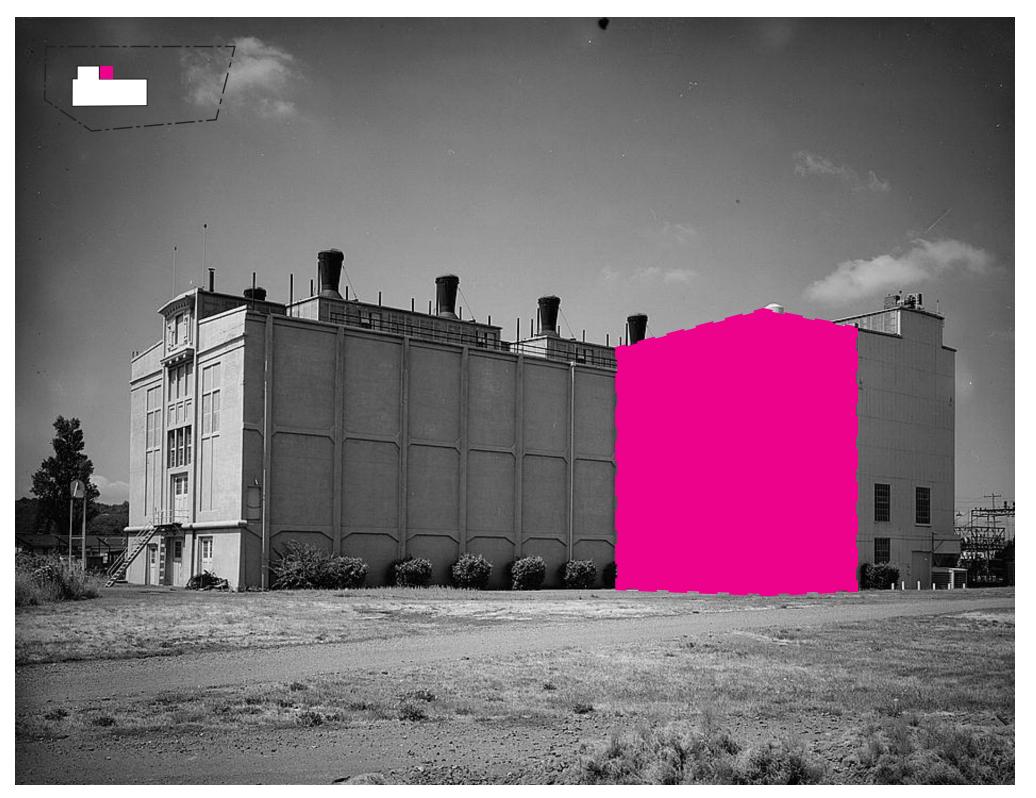
 Visual impact to the west elevation is potentially greater than other scenarios

#### Other Notes

none

## Zoom In: East Entry?

Si te Experience Considerations



## Scenario 4: Service Entry

#### **Key Strengths**

- Clear opportunity to pair with required seismic structure, exterior foundations, and vertical circulation
- Location is in line with where exterior accessory structures were located historically as well as where the steam plant was initially planned for expansion.
- An entry point located at this location of the building allows for discreet use by staff or can be advantageous for connecting to exterior program elements.

#### **Key Flaws**

 Visual impacts to multiple facades (primarily east, but also south elevation upon approach)

#### Other Notes

none

## Zoom In: South Entry?

Si te Experience Considerations

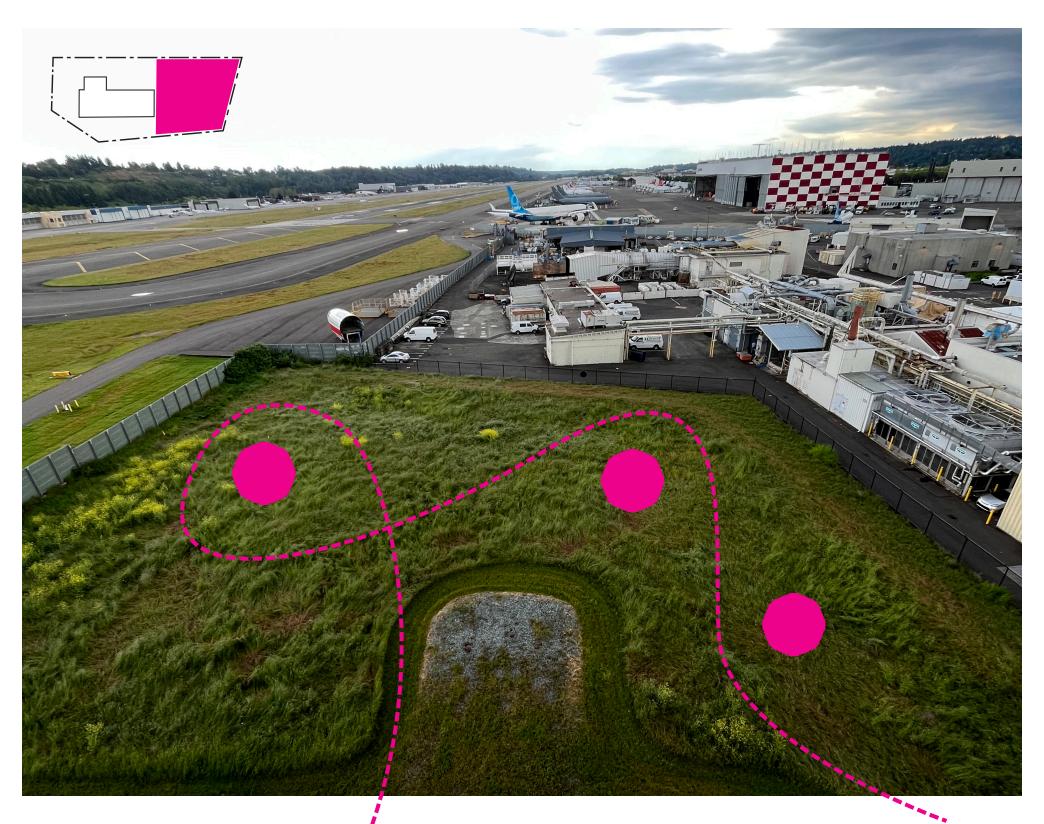


#### Notes

- The ash room at the south end of the building directly connects with the ground-level exterior. If site activities and program are to be expanded or supported, this would be likely be the ideal location to provide that.
- There is an existing exterior classroom building onsite. It's footprint could be repurposed for new functions to support the building program.
- There are many potential opportunities to provide accessory structures at the south portion of the site. These structures could be attached to the south facade or located away from the existing building entirely.

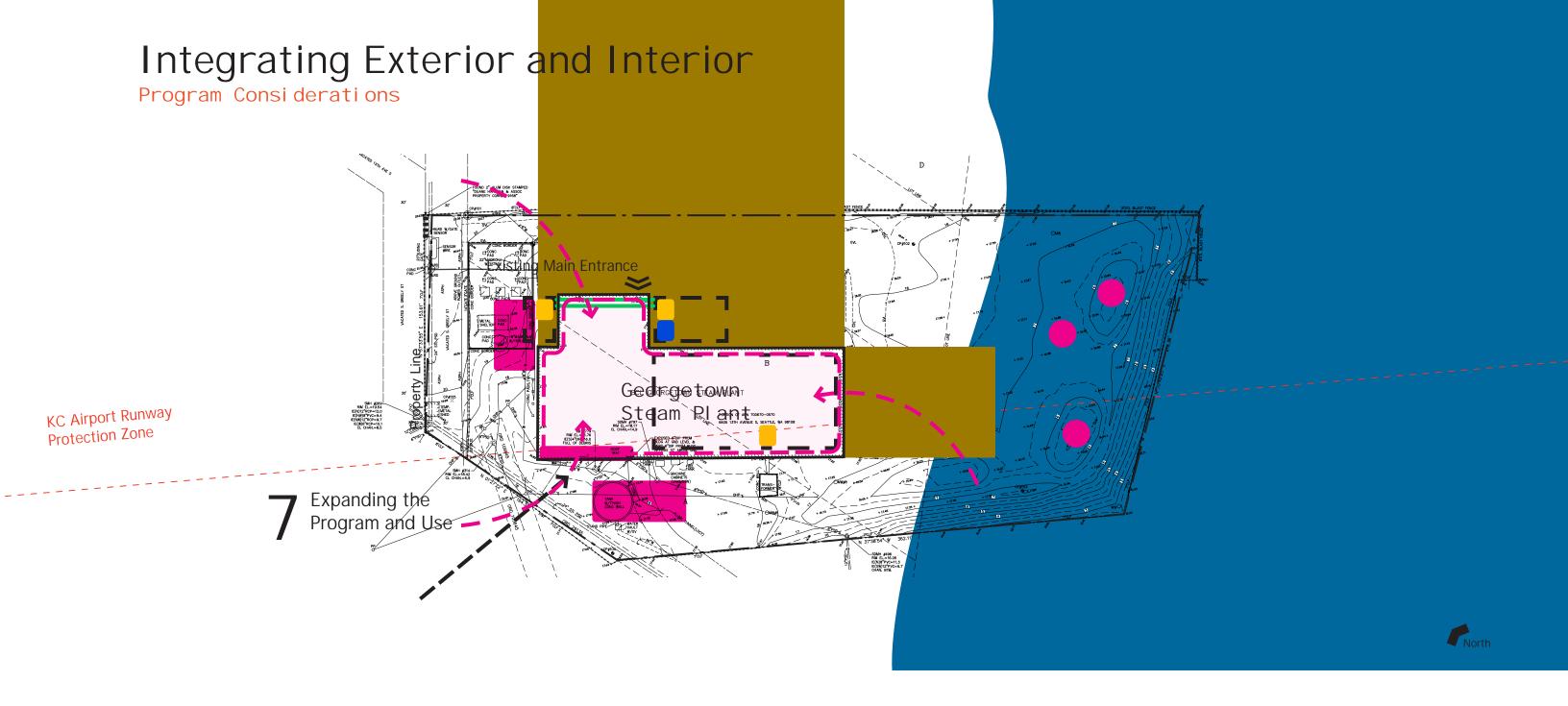
## Zoom In: Other Site Features

Si te Experience Considerations



#### Notes

- The Duwamish River originally moved through the south end of the site.
- There are interpretive stories that are best told within the site.
- The site has a large capacity for potential program, but is currently underutilize.



- Prom a historical perspective, there are exterior elevations that appear to be more appropriate for accepting new infrastructure required for expanded occupancy.
- The project site has a long history of accessory structures. Some still remain today.
- There is a new entry access road and parking layout under consideration @ the NW corner of the site. (By SCL and others)
- The building needs additional structure to address seismic bracing.
  (Briefing #2)
- Universal Access requires stairs, elevators, and circulation infrastructure. We can strategically try to pair these with the required structure. (Briefing #3)
- The experience and role of the site and building can change depending on where you enter the building, and for what purposes.

# Typical Requirements for Buildings w/Similar Program Needs Program Assumptions

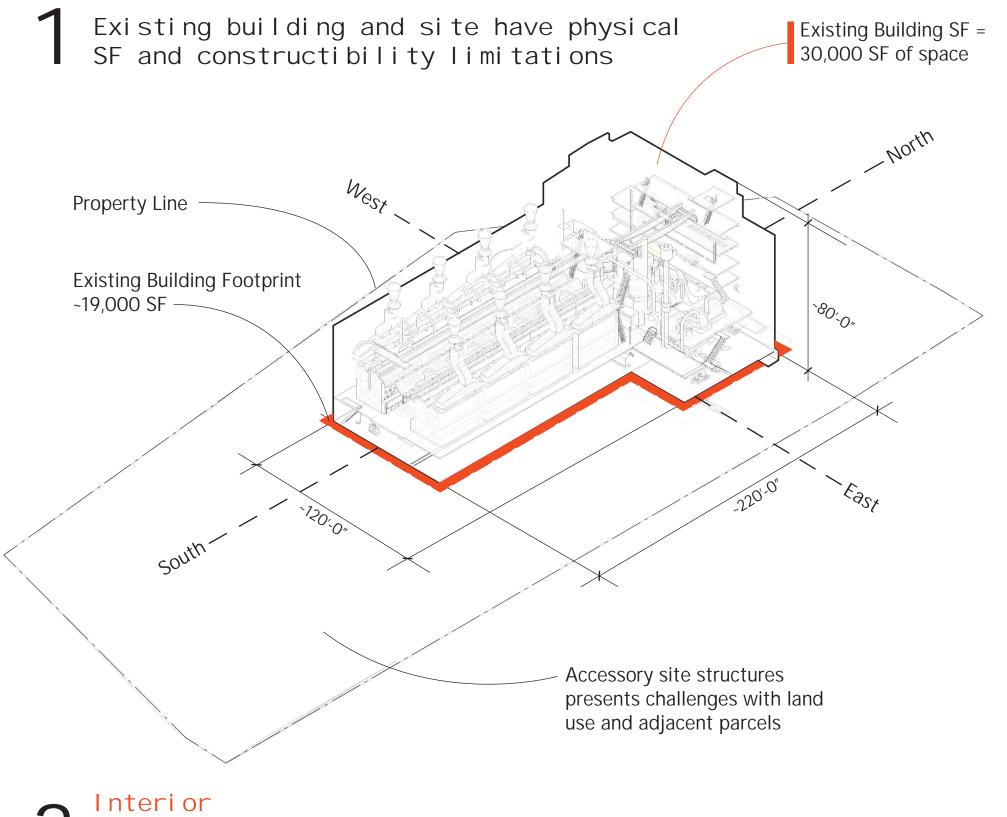
Program Type	Description	
Exhibit / Interpretation	Expanded tours (guided and self-guided) of existing, dedicated and curated rotating exhibits, visitor information	
Community / Education	Classrooms, makerspace, warming / catering kitchen, large gathering area, bar / cafe.	
Visitor Services	Lobby / front desk, ticketing, gift shop, retail storage, bathrooms	
Admin	Offices, staff work areas, meeting rooms, print / copy room, staff lockers + restrooms, exhibit storage, and typical storage	
Infrastructure	Electrical, Mechanical, Fire Riser, Janitor, Waste / Recycle	
Support	Circulation, Loading, Stair, Elevator	
Exterior Program	Outdoor exhibits, events and gathering, pre-ticketing areas, signage, drop-off areas, parking	

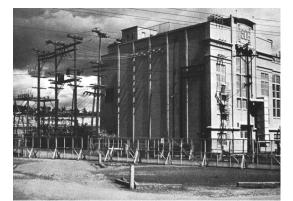
# Typical Requirements for Buildings w/Similar Program Needs Program Assumptions

Program Type	Typi cal Scenari o	Anti ci pated Scenari o
Exhibit / Interpretation	10,000 SF	30,000 SF
Community / Education	5,500 SF	3,000 to 8,000 SF
Visitor Services	1,700 SF	2,000 to 9,000 SF
Admin	3,200 SF	900 to 2,100 SF
Infrastructure	2,000 SF	1,000 to 2,000 SF
Support	5,000 SF	6,000 to 10,000 SF
Estimated Interior Program SF:	27, 000 SF	42,000 to 62,000 SF
Exterior Program	12,000 SF	TBD

#### Summary of Program Brief

Program Assumptions







North

East







South

West

#### Inside Features are Important Outside Features are Important





**Boiler Room** 

**Electrical Mezzanines** 





Ash Room

Engine Room

Program SF Requi red

27,000 SF - 39,000 SF

#### The Surgical Approach

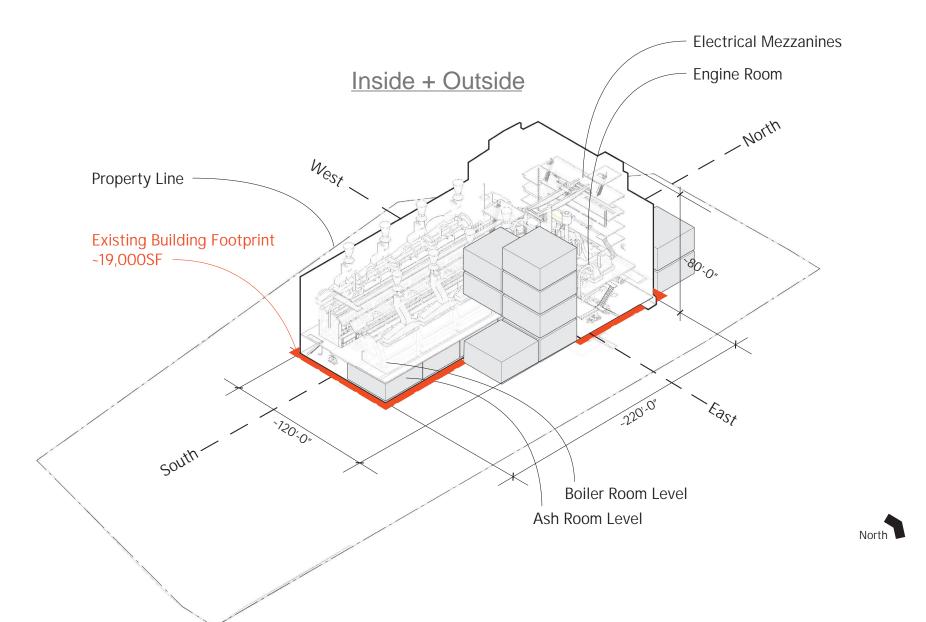
Layout Possibilities

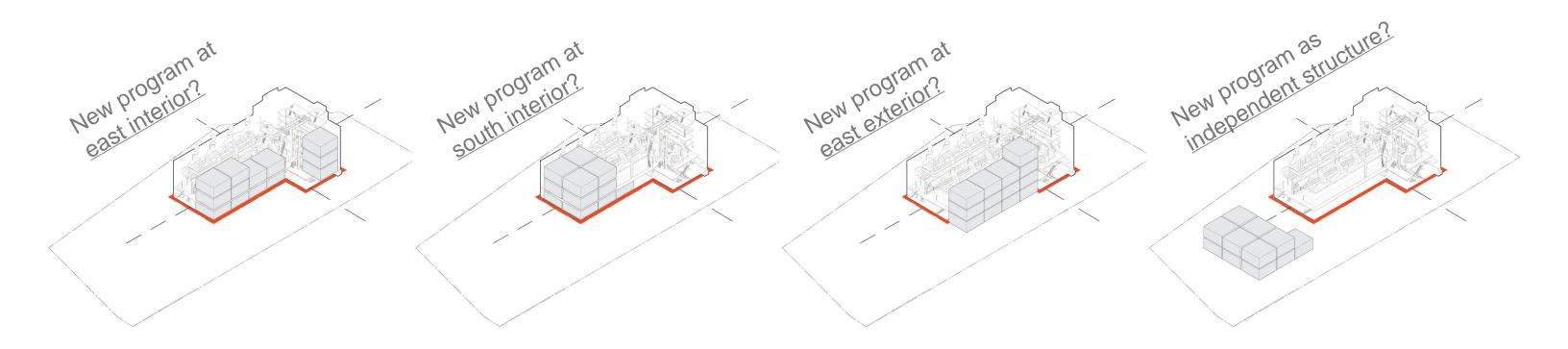
\*Images are diagrammatic only

Similar to many of the other components required for this project, the Team believes in a surgical approach that emerges after studying the opportunities of both interior and exterior possibilities, and that appropriately balances the project's values.

#### Key:







#### (Preview for Later) A Few Discussion Topics

1 Opacity vs. Transparency

Materials. Is there value in seeing through or into additions? Is there value in the historic material being legible after modification?

2 Density vs Scale

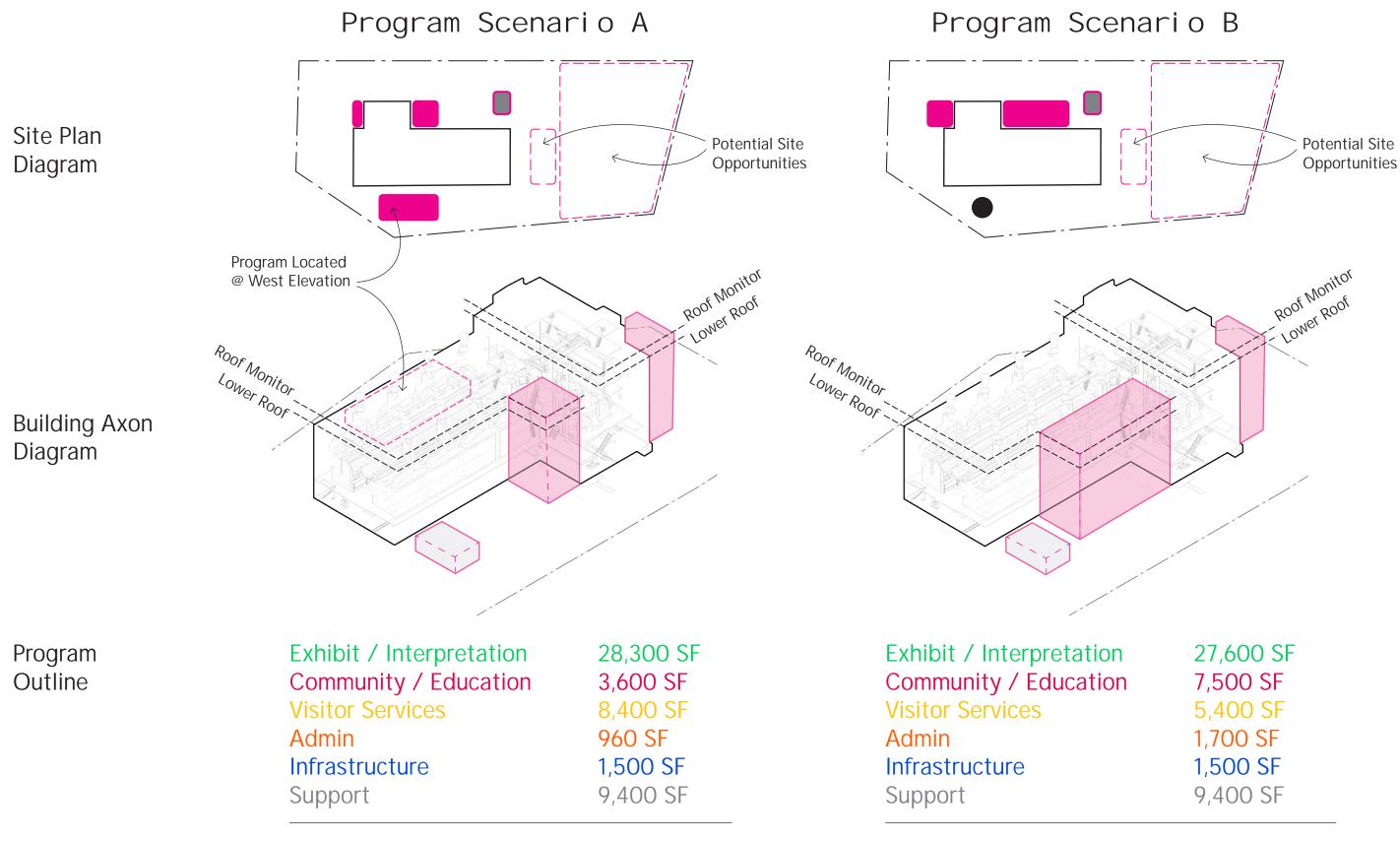
Is there a preference for many small modifications/additions or fewer larger modifications/additions?

What is the visual hierarchy of these elements? Does a higher degree of contrast promote a better understanding of the historic character?

Next Set of Slides: (2) Possible Program Scenarios

#### Overview of (2) Possible Program Scenarios

Layout Possibilities



~ 52, 200 SF

~ 52,600 SF

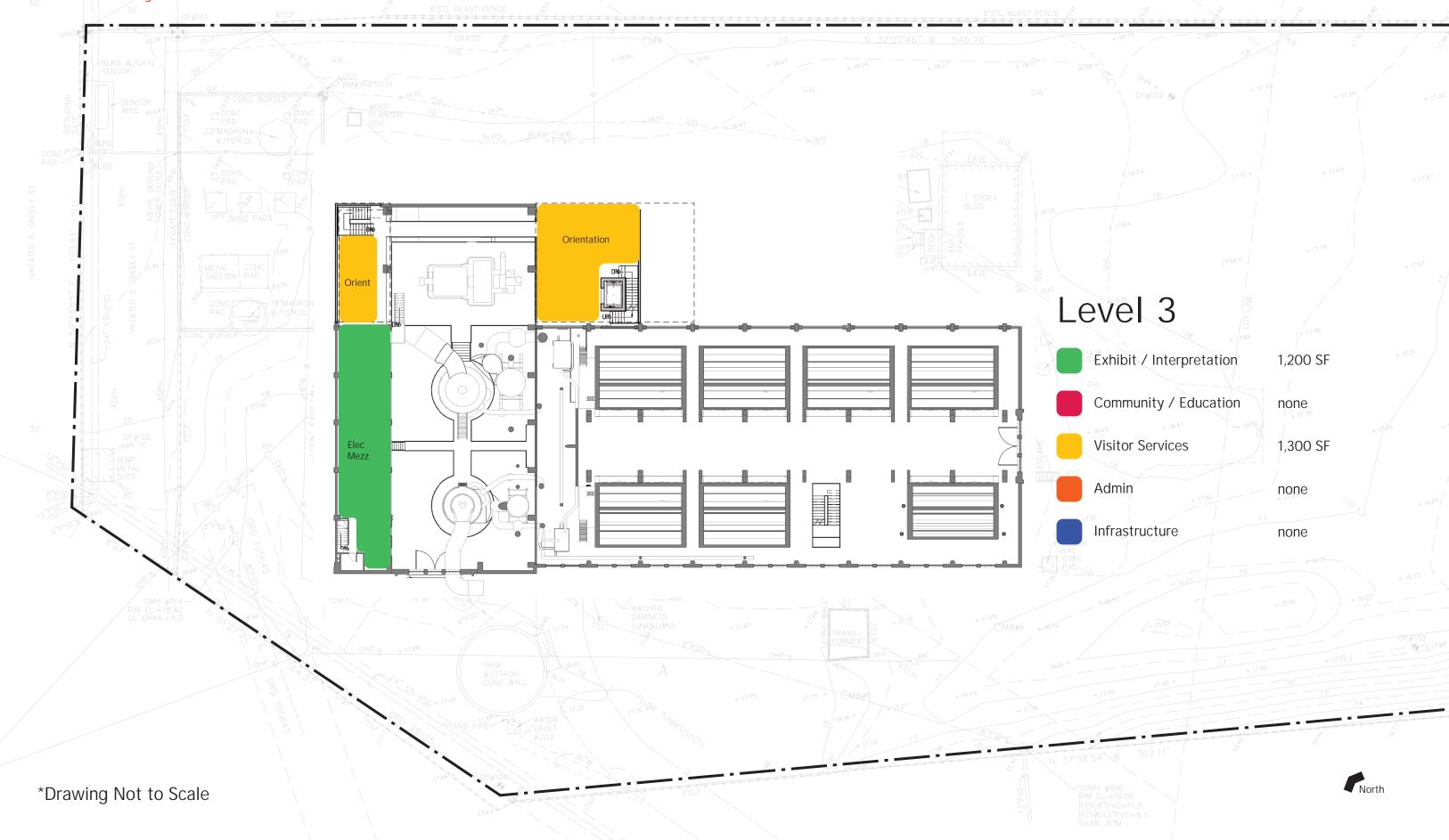
### Program Scenario A: Level 1 Layout Possibilities



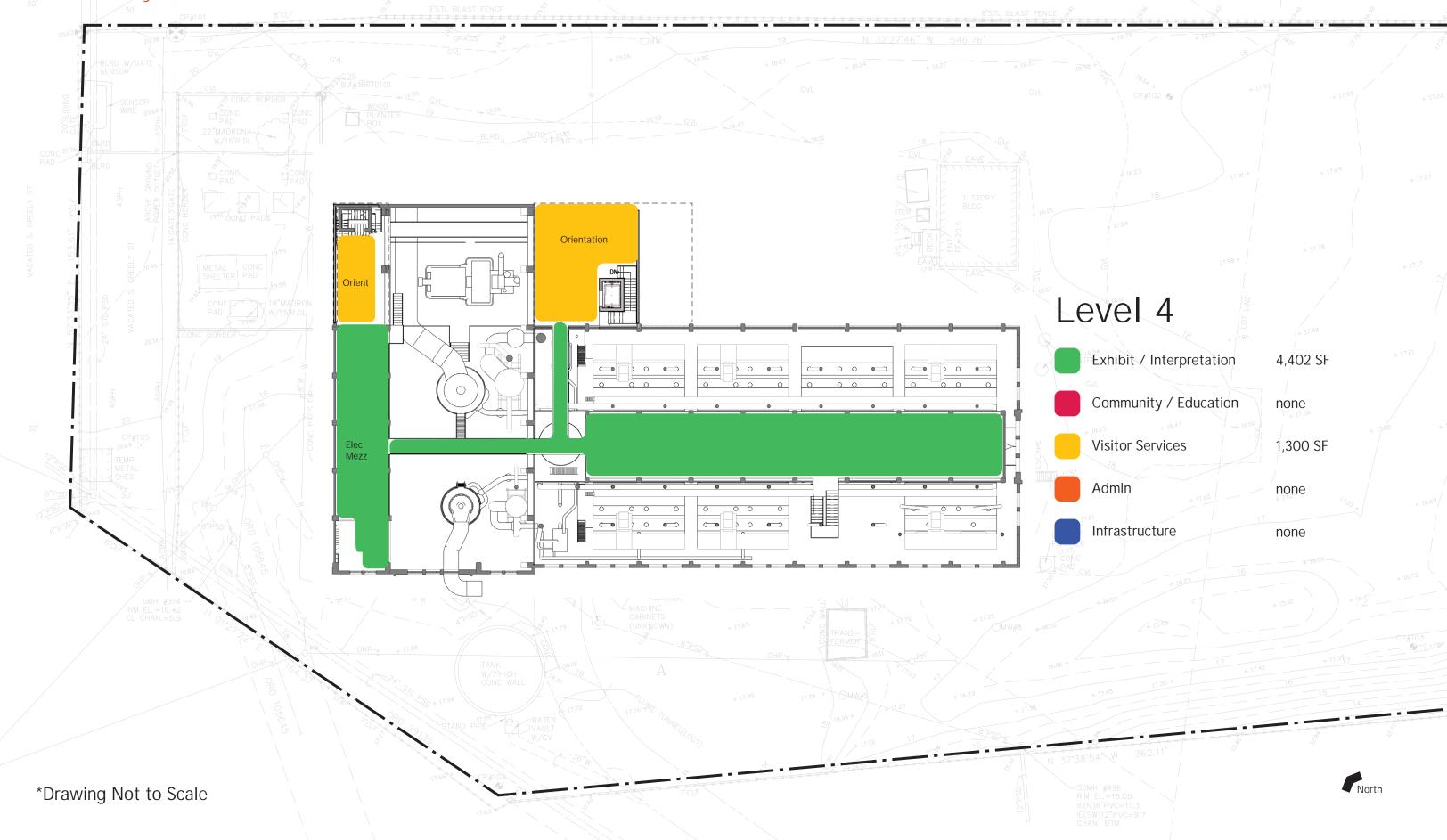
## Program Scenario A: Level 2 Layout Possibilities



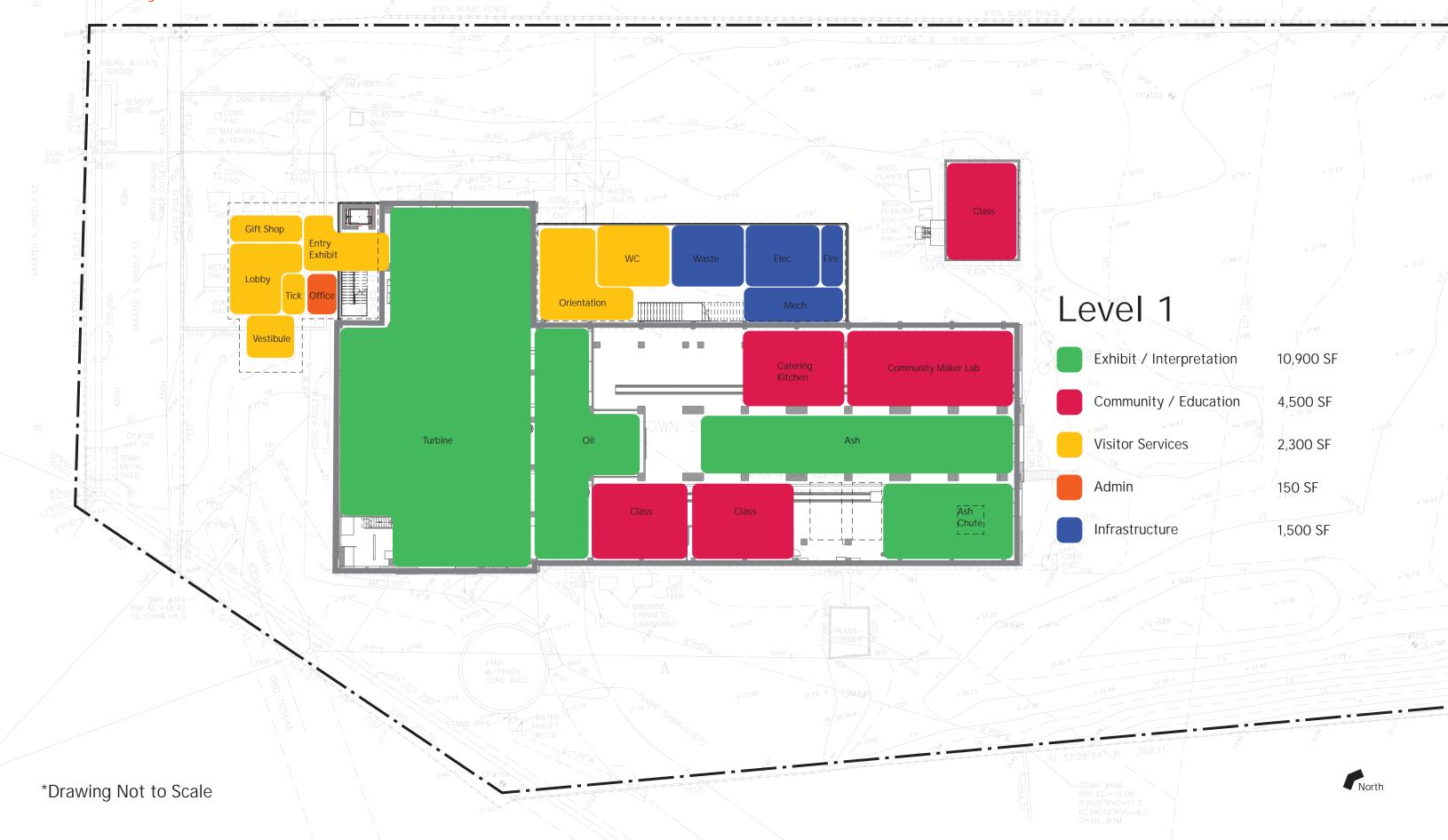
## Program Scenario A: Level 3 Layout Possibilities



### Program Scenario A: Level 4 Layout Possibilities



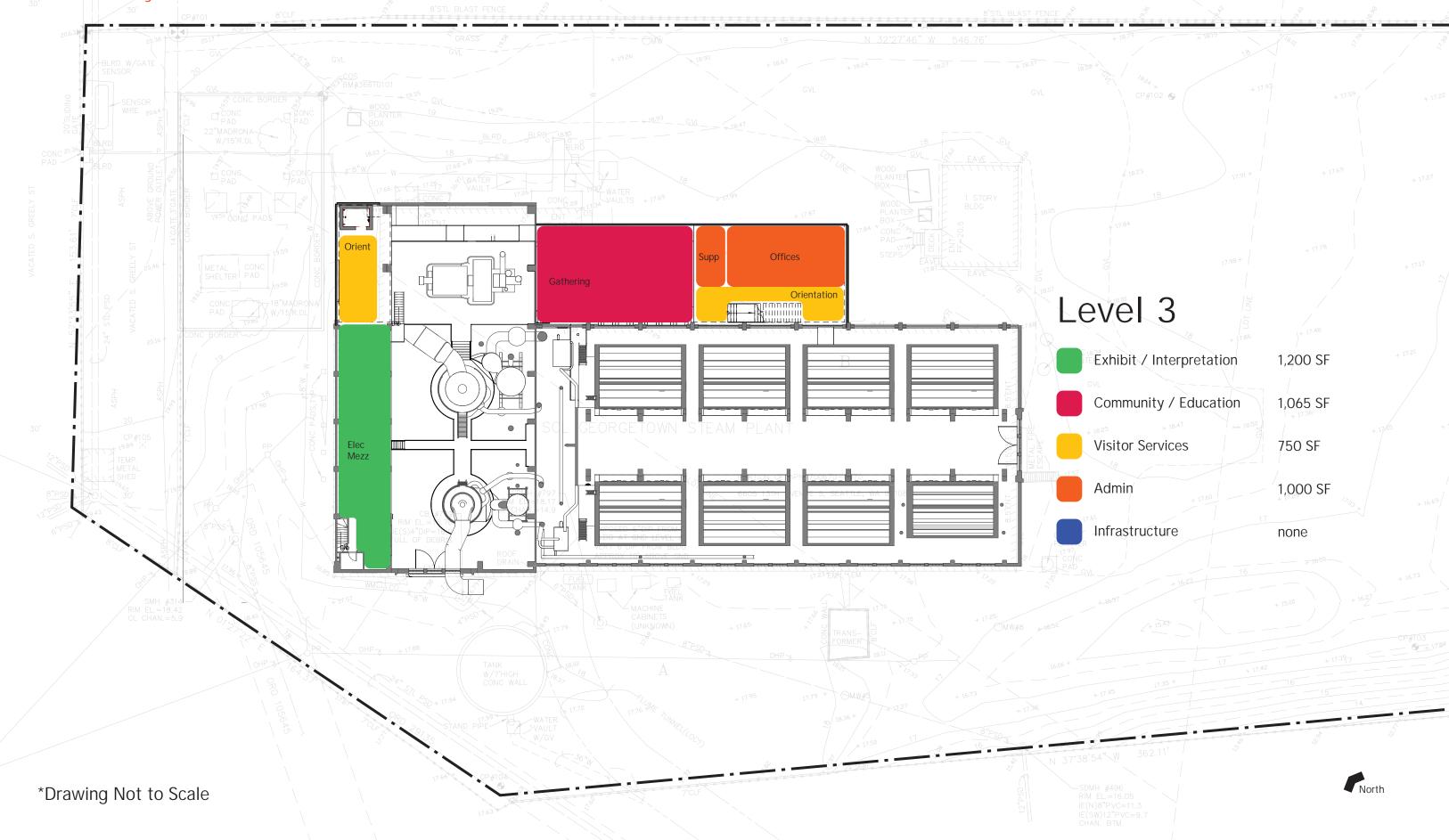
## Program Scenario B Level 1 Layout Possibilities



## Program Scenario B: Level 2 Layout Possibilities



### Program Scenario B: Level 3 Layout Possibilities



## Program Scenario B: Level 4 Layout Possibilities





# Expanded Program Outline, Early Development Layout Possibilities

#### Program Scenario A

Space	Location	Floor	SF	Primary Use Case	Secondary Use C
VISITOR SERVICES					
Lobby/Queueing	Cistern		1	945	
Orientation	NE Addition / Hinge		1	1285	
Orientation	NE Addition / Hinge		2	1361	
Orientation	NE Addition / Hinge		3	1361	
Orientation	NE Addition / Hinge		4	1312	
Ticketing/Front Desk	Cistern		1	228	
Retail (Gift Shop)	Cistern		1	230	
Coat Check	Cistern		1	100	
Retail Storage	Hinge		1	100	
Bathrooms	Cistern		1	153	
Bathrooms	Turbine + Hinge		1	825	
Bathrooms	Hinge		2	610	
				8410	
ADMIN AND SUPPORT					
ADMIN AND SUPPORT					
Office / Conf	Cistern		1	327	
Conference	Cistern		1	172	
Storage	Cistern		1	44	
Storage	Ash Room		1	417	
				960	

INFRASTRUCTURE				
Electrical/Transformer	Ash Room	1	480	
Mechanical	Ash Room	1	406	
Mechanical	Cistern	1	172	
Fire	Ash Room	1	179	
Janitor			100	
Waste/Recycle		1	300	
			1537	
EXHIBIT/INTERPRETATION				
Turbine Hall	Turbine Room	1	6237 Exhibit Space (Permanent Museum)	Event Space
Oil Pump Room	Oil Pump Room	1	1616 Exhibit Space (Permanent Museum)	-

Turbine Hall	Turbine Room	1	6237 Exhibit Space (Permanent Museum)	Event Space	
Oil Pump Room	Oil Pump Room	1	1616 Exhibit Space (Permanent Museum)	-	
Ash Room Middle Bay	Ash Room	1	1883 Flex/Event Space	Exhibit Space (Temp)	Community room
Ash Chute Area	Ash Room	1	1129		
Cistern	Cistern	1	545		
Horizontal Turbine Mezz	Turbine Room	2	1187 Exhibit Space (Permanent Museum)	Event Support Space (viewi	ing) + Greenroom
Boiler Room	Boiler Room	2	5866 Exhibit Space (Temp/Permanent Museum	Event Space	
Coal Pocket	Coal Pocket	4	3106 Exhibit/Installation Space (Art, revolving)	Event Space	
Coal Bin Mezzanine	Coal Pocket	5	1,975 Exhibit/Installation Space (Art, revolving)	Event Support Space (viewi	inį Supports space below
Elec Mezz 2	Mezzanines	2	1184 Exhibit Space (Permanent Museum)	Event Support Space (viewi	ing)
Elec Mezz 3	Mezzanines	3	1184 Exhibit Space (Permanent Museum)	Event Support Space (viewi	ing)
Elec Mezz 4	Mezzanines	4	1296 Exhibit Space (Permanent Museum)	Event Support Space (viewi	ing)
Elec Mezz 5	Mezzanines	5	1184 Exhibit Space (Permanent Museum)	Event Support Space (viewi	ing)
			28392		

850 Educational Space

697 Educational Space 1 1367 Educational Space/Workshop

Standalone

Community Room

		3642			
SUMMARY					
VISITOR SERVICES		8410			
ADMIN AND SUPPORT		960			
INFRASTRUCTURE		1537			
EXHIBIT/INTERPRETATION		28392			
COMMUNITY/EDUCATION		3642	42941		
CIRCULATION/LOADING	15%	6441.2			
STAIR/ELEVATOR (VERTICAL CIRC)	6%	2962.9	9404.079		
· ·					
TOTAL INTERIORS DROCDAM		50045			

#### Program Scenario B

TOTAL INTERIORS PROGRAM

Space	Location	Floor S	F	Primary Use Case Secondary Use Case Notes
VISITOR SER	RVICES			
Lobby/Queueing	NE Addition	1	645	
Ticketing/Front	-	1	100	
Retail (Gift Shop	NE Addition	1	208	
Retail Storage	Hinge	1	100	
Bathrooms	Hinge	1	465	
Bathrooms	Hinge	2	425 410	
Bathrooms	Hinge	4	410	
			2253	
ADMIN AND	SUDDODT			
ADMIN AND	JUFFORT			
Office/Admin @		1	134	
Storage	Hinge	2	290	
Offices	Hinge	3	1297	
Storage	Hinge	4	314	
			2035	
INFRASTRUC	CTURE			
Electrical/Trans		1	477	
Mechanical	Hinge	1	391	
Fire	Hinge	1	138	
Waste/Recycle		1	455	
Janitor			100	
			1461	
EXHIBIT/INTI	ERPRETATIO	N		
LAIIIDII/IIII	LKFKLIAIIO	<b>AN</b>		
Turbine Hall	Turbine Room			Exhibit Space (Permanent Museu Event Space
		1	6330	
Oil Pump Roor		1 n 1		Exhibit Space (Permanent Museu-
	r Oil Pump Roor		1616	
Oil Pump Roor	r Oil Pump Roor (Ash Room	n 1	1616	Exhibit Space (Permanent Museu- Flex/Event Space Exhibit Space (Temp) Community room
Oil Pump Roor Ash Room Mid	r Oil Pump Roor (Ash Room	m 1 1	1616 1883 1129	Exhibit Space (Permanent Museu- Flex/Event Space Exhibit Space (Temp) Community room
Oil Pump Roor Ash Room Mid Ash Chute Are	r Oil Pump Roor (Ash Room (Ash Room Boiler Room	n 1 1 1	1616 1883 1129 5866	Exhibit Space (Permanent Museu- Flex/Event Space Exhibit Space (Temp) Community room
Oil Pump Roor Ash Room Mid Ash Chute Are Boiler Room	r Oil Pump Roor (Ash Room (Ash Room Boiler Room	n 1 1 1 2 2 4	1616 1883 1129 5866 1187	Exhibit Space (Permanent Museu- Flex/Event Space Exhibit Space (Temp) Community room  Exhibit Space (Temp/Permanent Nevent Space
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#### What could this look like? Some Examples

Scale, Opacity, Hierarchy, Legibility, Accessory Structures



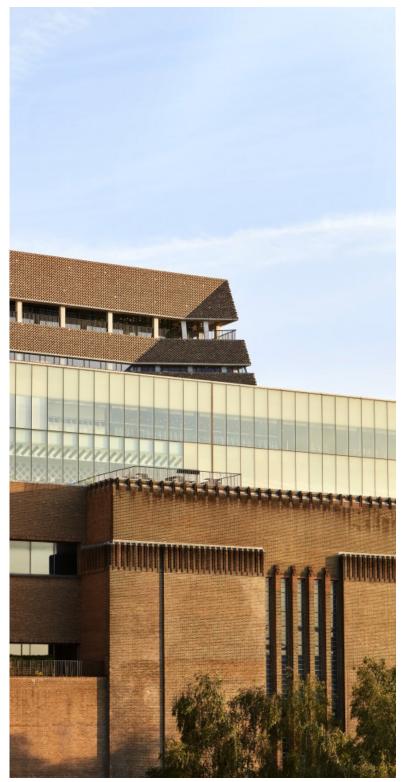
Beloit College Power House Wisconsin



Medieval Mile Museum Ireland



Innovation Powerhouse Netherlands



Tate Modern UK

### Planning for Subsequent Meetings

