



POTOMAC YARD METRORAIL STATION DESIGN

Potomac Yard Metrorail
Implementation Work Group
October 28, 2015



AGENDA

- I. Introductions
- II. Role of PYMIG and Schedule
- III. Design Parameters
- IV. City Process
- V. Design Context
- VI. Design Principles
- VII. Design Strategies
- VIII. Park Programming
- IX. Next Steps
- X. Comments/Questions
- XI. Interactive Exercises
 - I. Design Strategies
 - II. Park Programming
- XII. Adjourn



ROLE OF PYMIG AND SCHEDULE



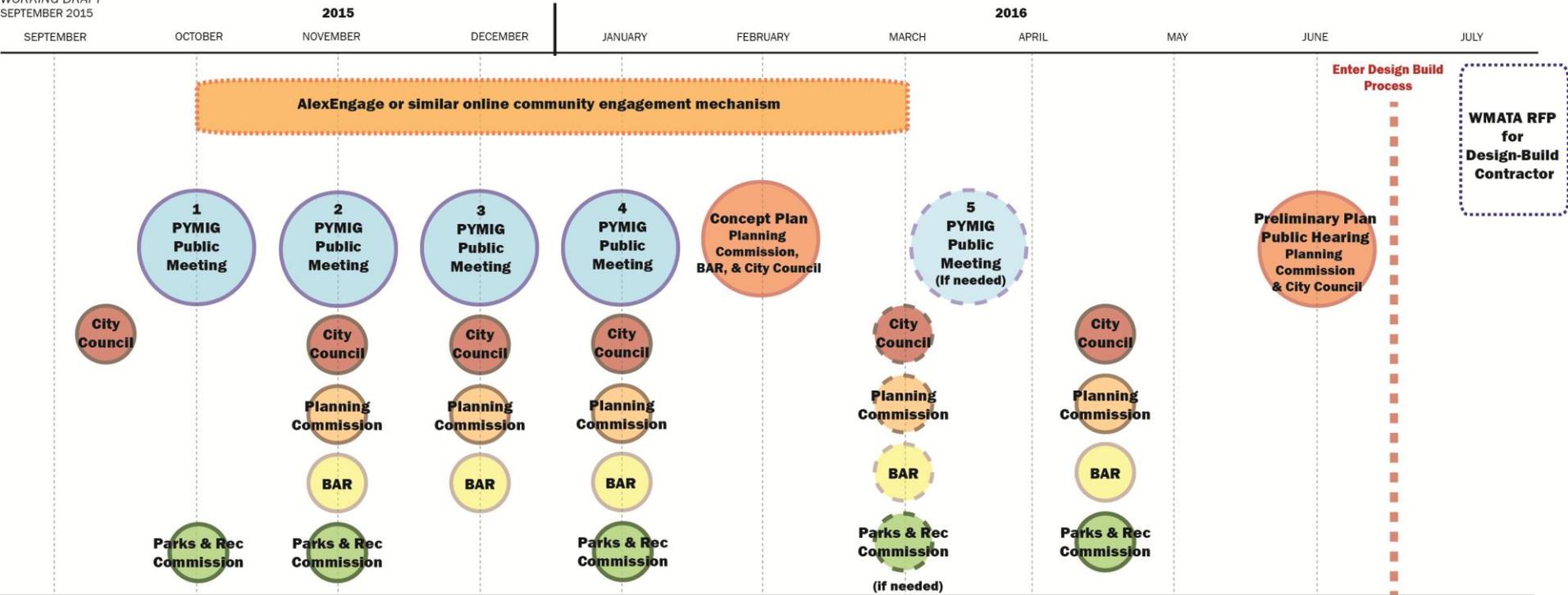
ROLE OF PYMIG

- Eleven members of PYMIG - each member represents a group
- Meetings provide an opportunity for dialogue
- PYMIG acts as a forum for public input
- PYMIG Responsibilities:
 - Review and provide input on Environmental Impact Statement (EIS) documents
 - Provide input on the project design
 - Receive updates on funding issues related to the new Metrorail station
 - Facilitate discussion of construction mitigation for community impact before and during construction

SCHEDULE

POTOMAC YARD METRORAIL STATION PROCESS FRAMEWORK

WORKING DRAFT
SEPTEMBER 2015



WORKING DRAFT

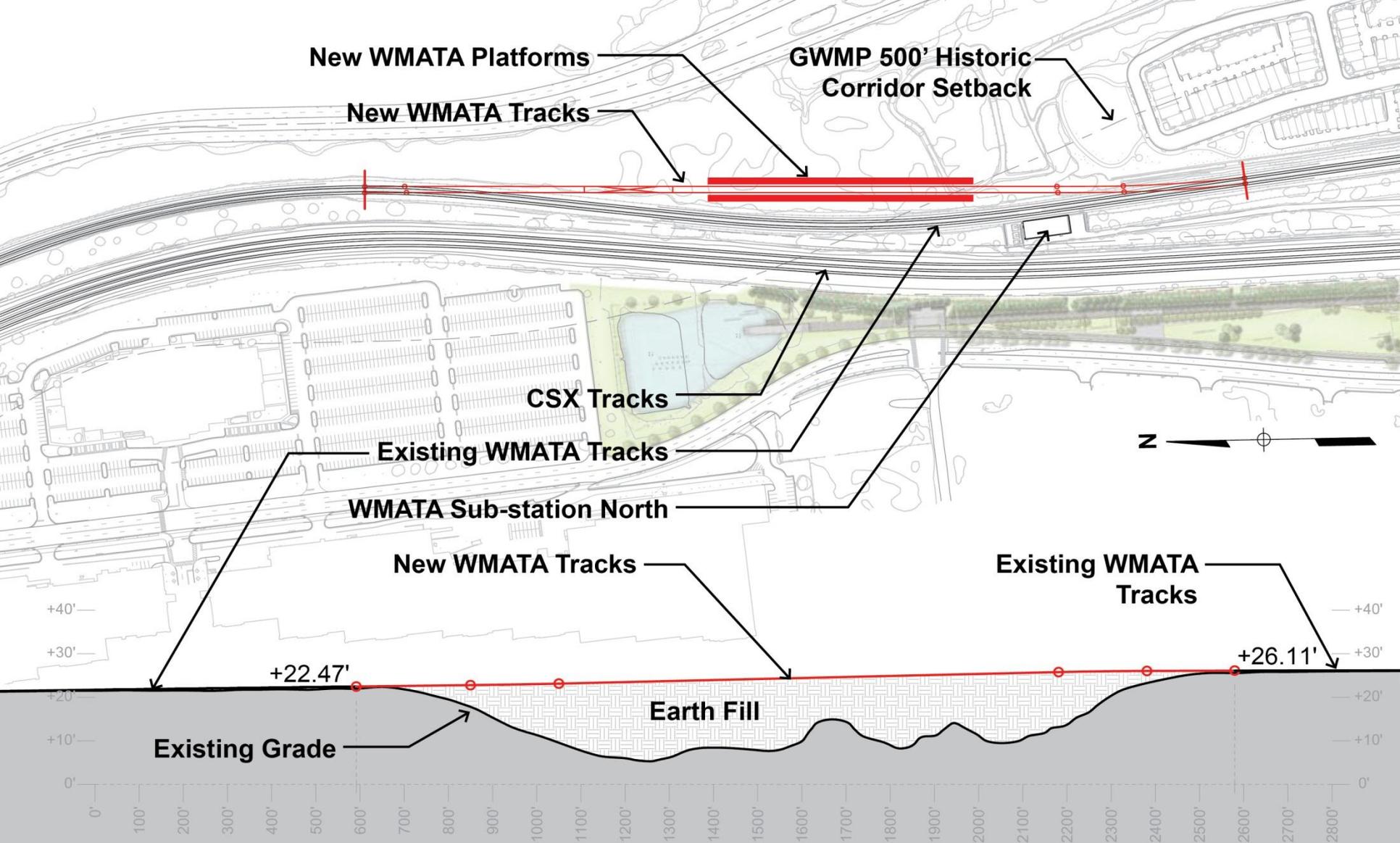
Note: This framework is a working draft and is subject to change





WMATA, City, CSX, and other requirements

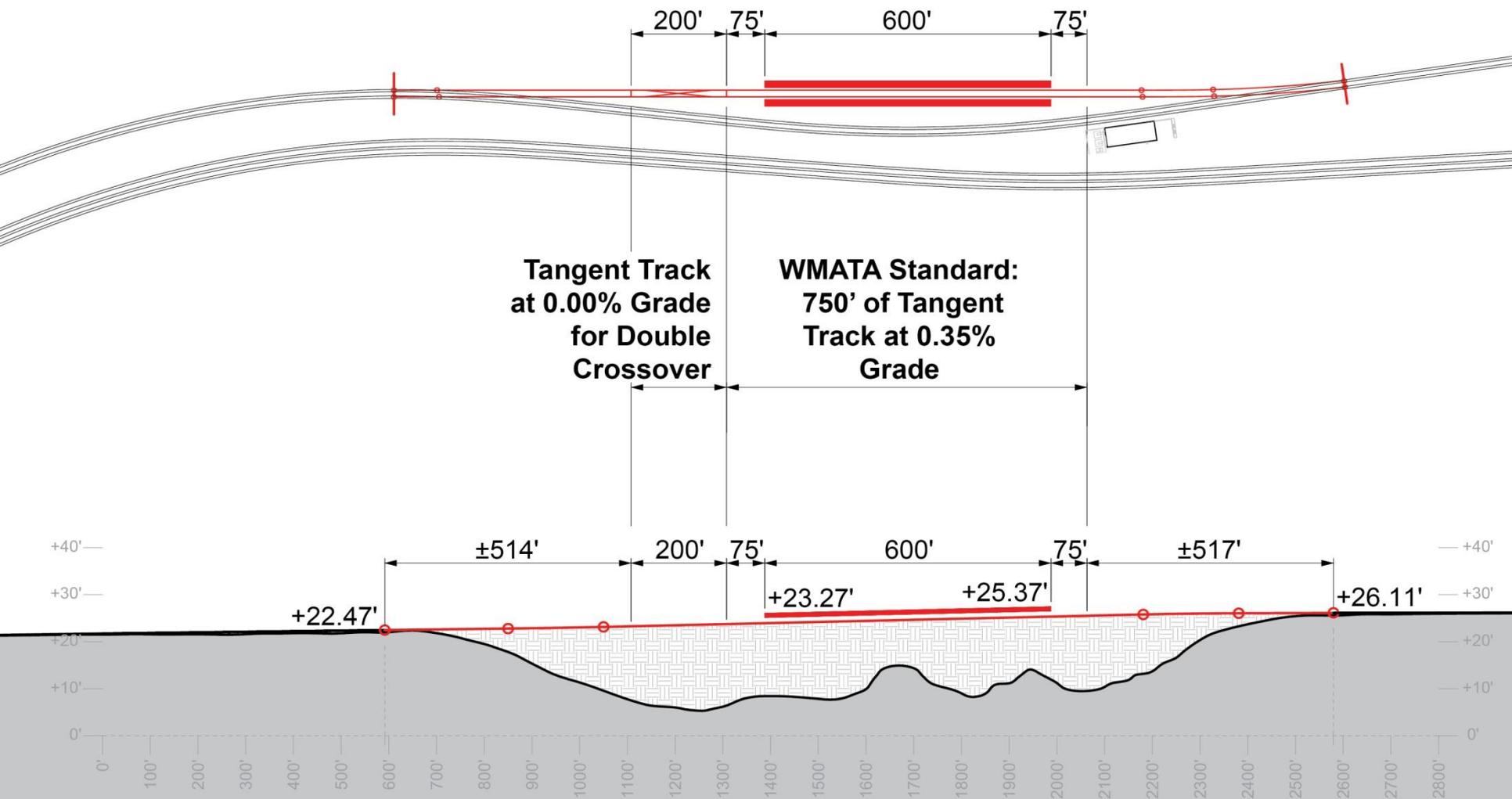
DESIGN PARAMETERS



Notes:

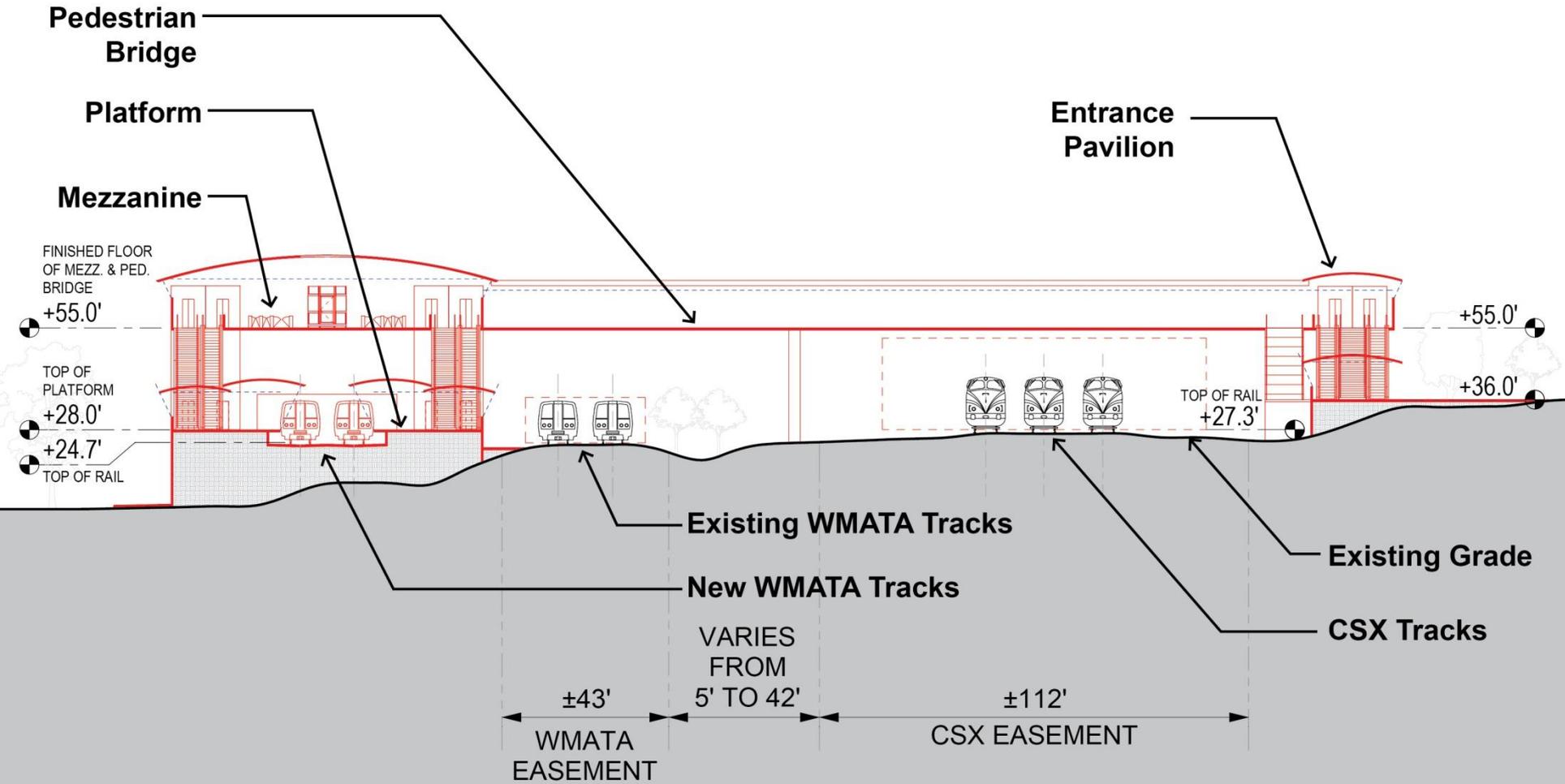
1. Section looking East through centerline between inbound and outbound tracks.
2. Elevations are based on the NAVD 88 survey datum and are measured to Top of Rail.





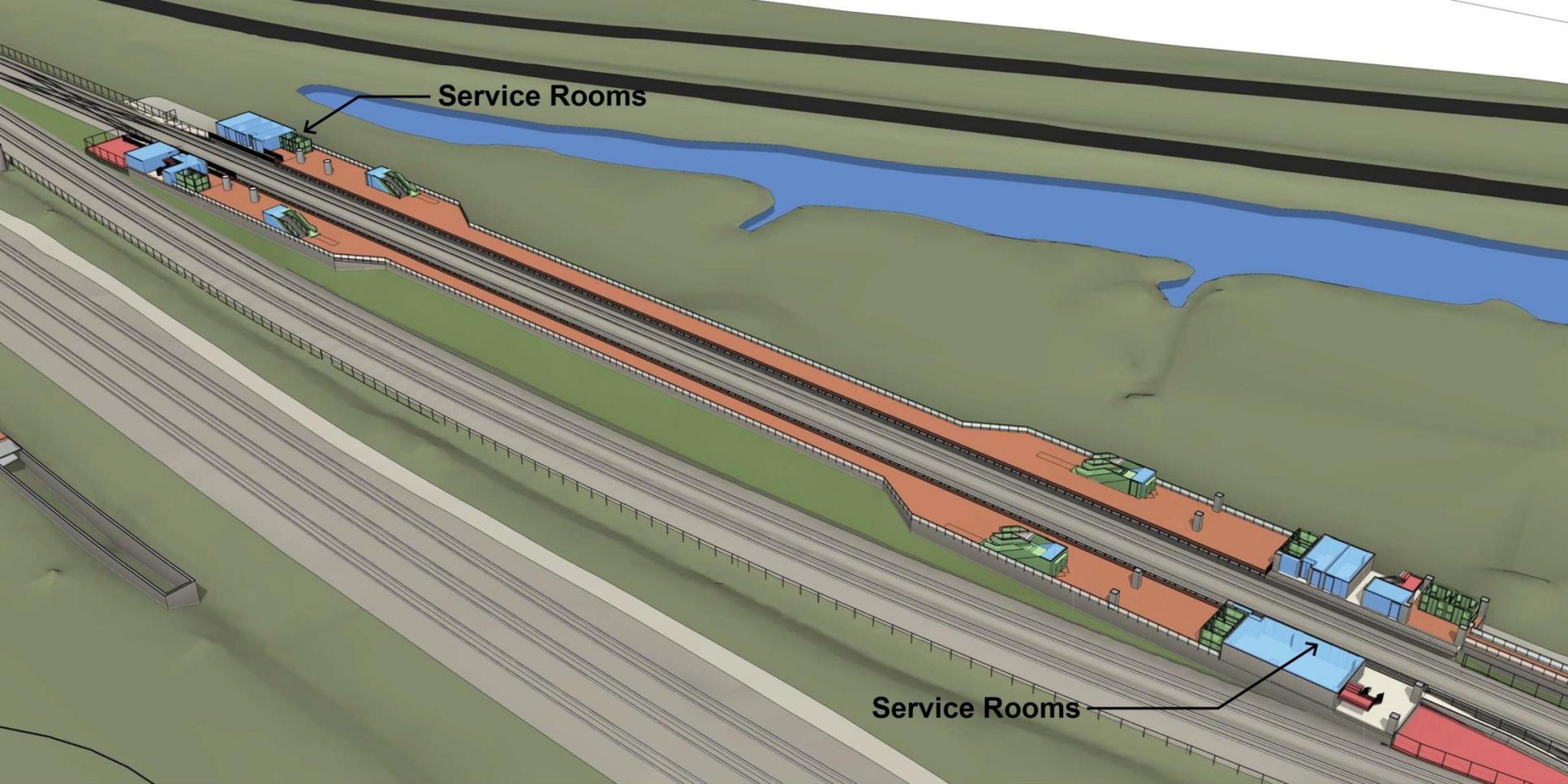
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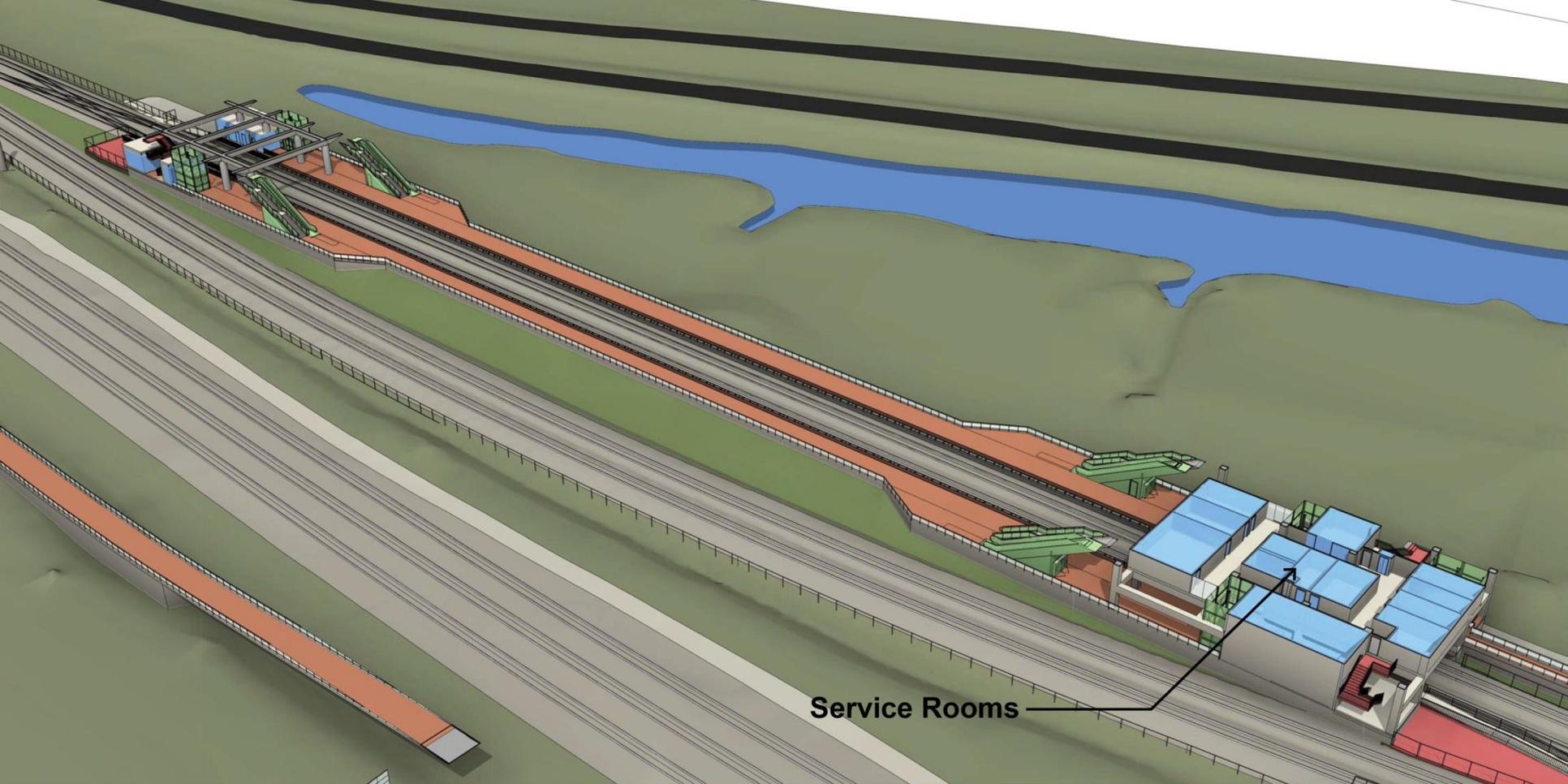
Key Plan





Notes:

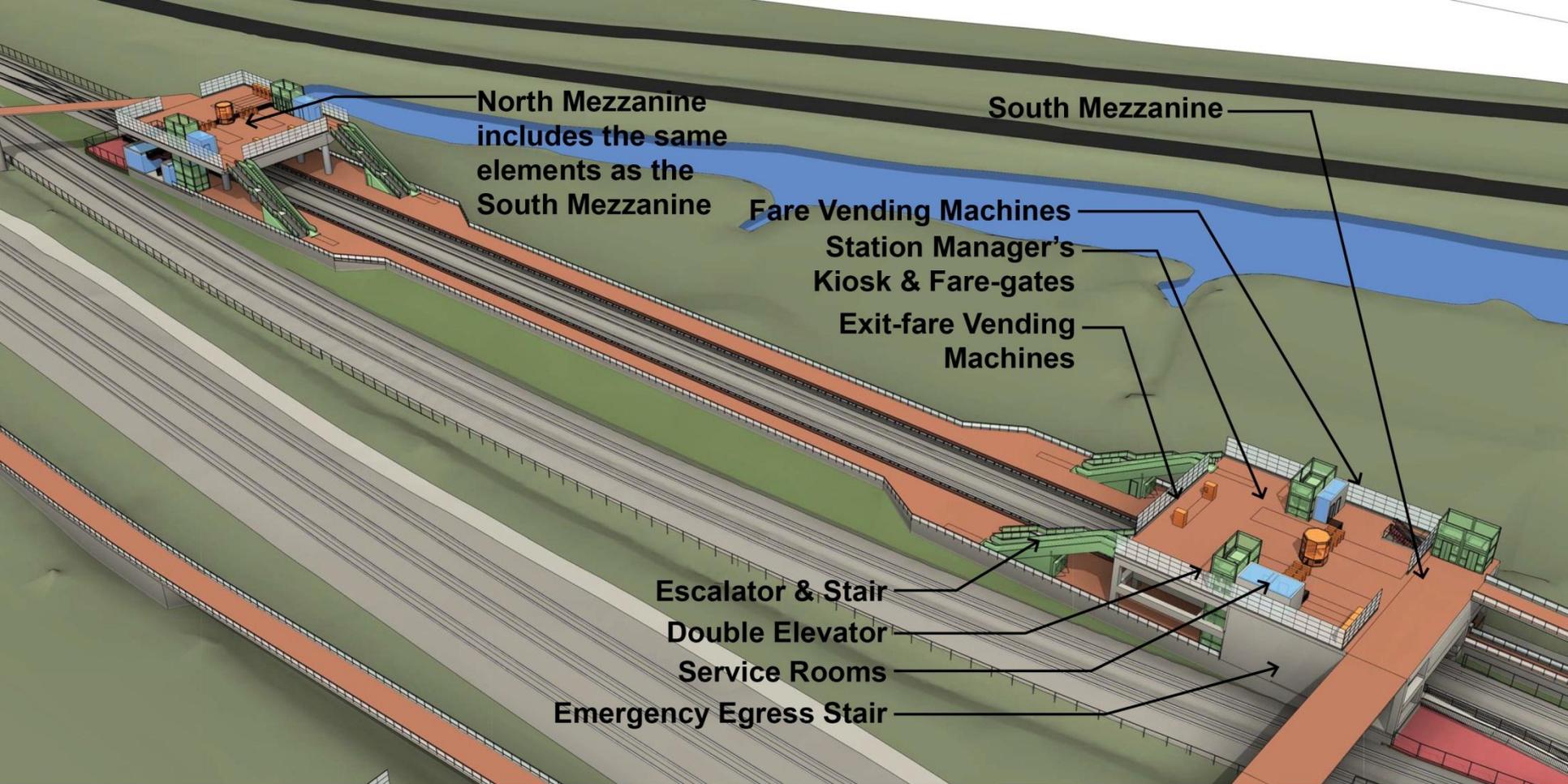
1. The Platform Level has Service Rooms at both the North and South ends.
2. Service Rooms required at each end of each Platform include: Telecommunications Closet, Fire Equipment Cabinet, ETEC Cabinet, Escalator Control Room, Elevator Machine Room, Area of Rescue Assistance (at-grade beyond Platforms and Service Rooms)
3. Additional Service Rooms include: Cleaner's Room, Water Service Room, Maintenance Room, Electrical Cable Room, D.C. Tie Breaker Room, Electrical Cabinet Room, Cart Storage



Service Rooms

Notes:

1. The Service Level is located below the South Mezzanine only.
2. Service Rooms at this level include: Mechanical Room, A.C. Switchboard Room, Battery Room, Communication Room, Train Control Room, Operation Room, Telecommunications Room, (2) Fire Equipment Cabinets, Cleaner's Room, (2) Employee Restrooms, Electrical Cabinet Room



Notes:

1. Each Platform is accessed at each end by an Escalator & Stair, and a pair of Elevators.
2. Each Mezzanine requires an emergency egress stair.
3. Each Mezzanine requires a Station Manager's Kiosk, Fare-gates, Fare Vending Machines, Exit-fare Vending Machines, and Service Rooms
4. Service Rooms at each Mezzanine include: (2) Public Restrooms, Electrical/Telecommunications Closet, Fire Equipment Cabinet

WMATA STANDARD MATERIALS AND COLORS



Light Blasted Smooth Concrete



Metro Brown
(Federal Standard 595 FS
20040)



Tranaut Red Porcelain Tile
(Metro Collection, Stonepeak
Ceramics)



Clear Glass



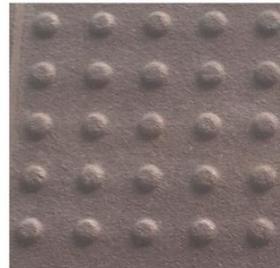
Pussy Willow Gray
(#SW7643 by Sherwin Williams)



Board-Formed Concrete



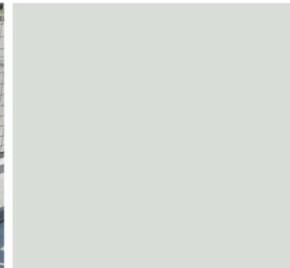
Concrete Pavers with
Hexagonal Pattern
(replacement of quarry tiles)



Concrete Truncated Dome
(bumpy) Pavers



Stainless Steel Mesh
(guardrails)



Wickham Gray
(HC-171 by Benjamin Moore)



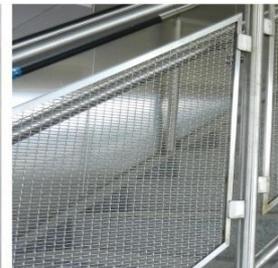
Mount Airy Granite



Platform Edge Light



Brushed Stainless Steel #4



Stainless Steel Mesh
(Silver Line stairs)

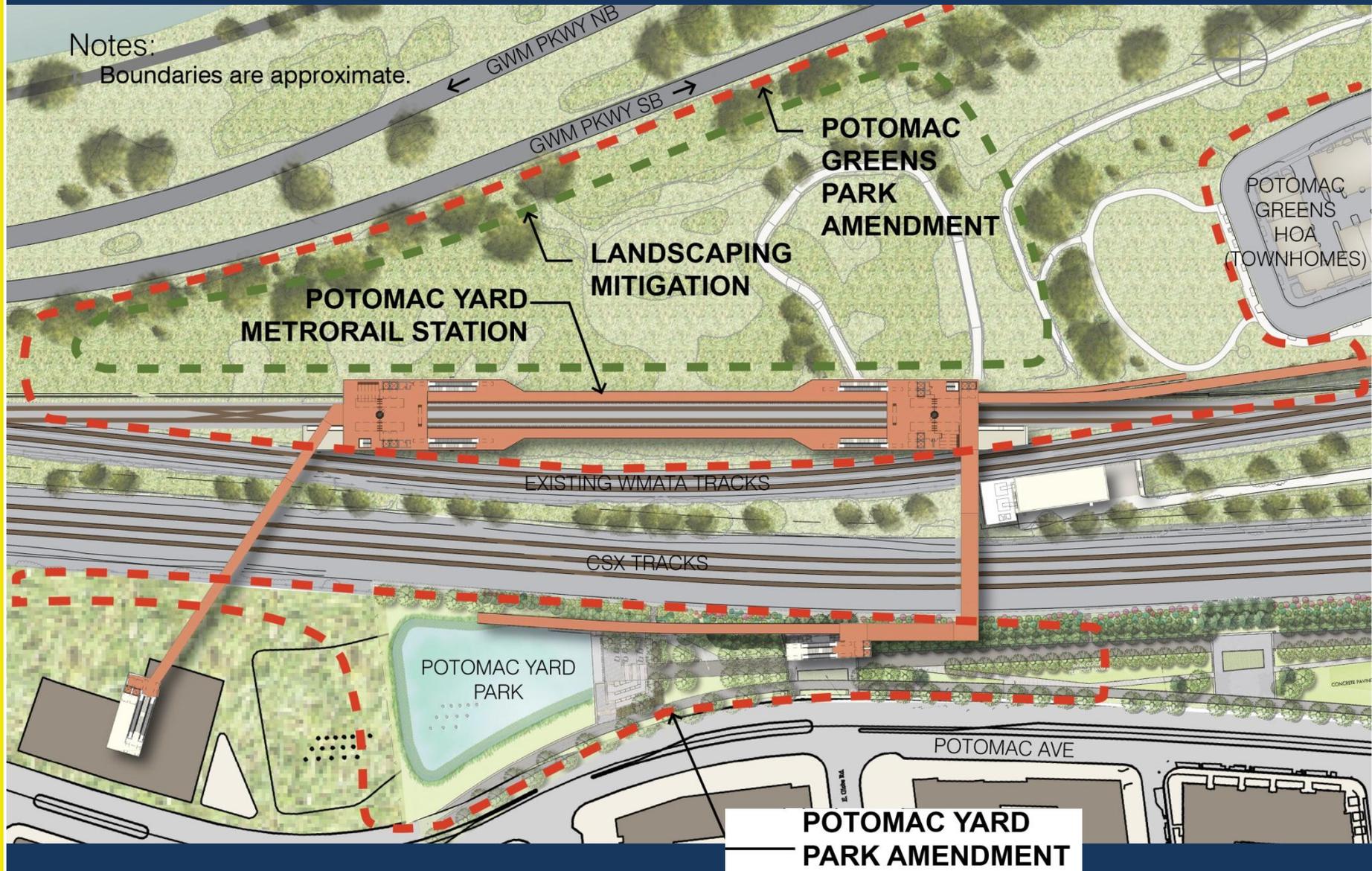


CITY PROCESS

CITY APPROVALS

Notes:

Boundaries are approximate.





DESIGN PROCESS

01 Principles and Strategies

02 Concepts

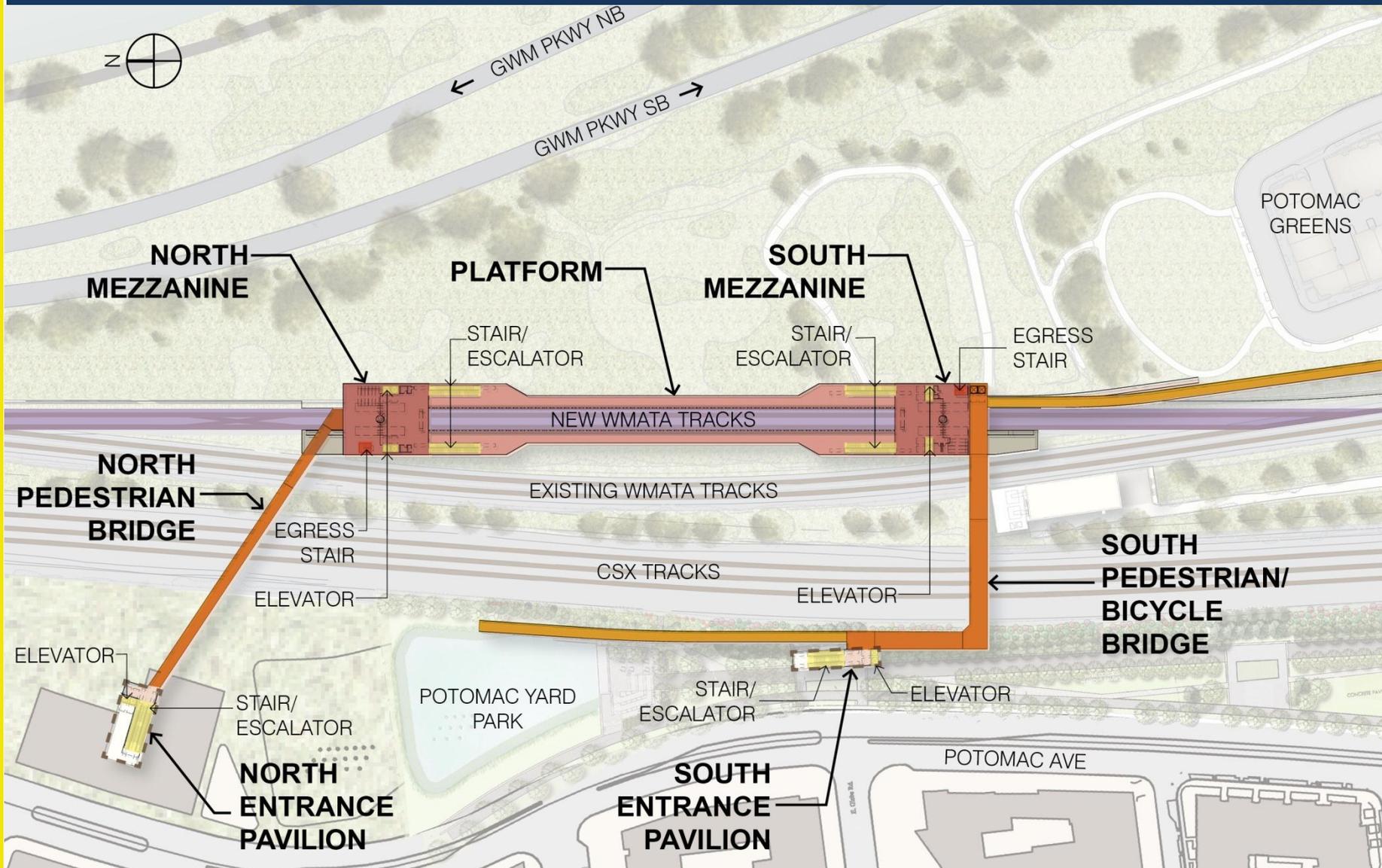
03 Design Refinement

04 Preliminary Design for DSUP

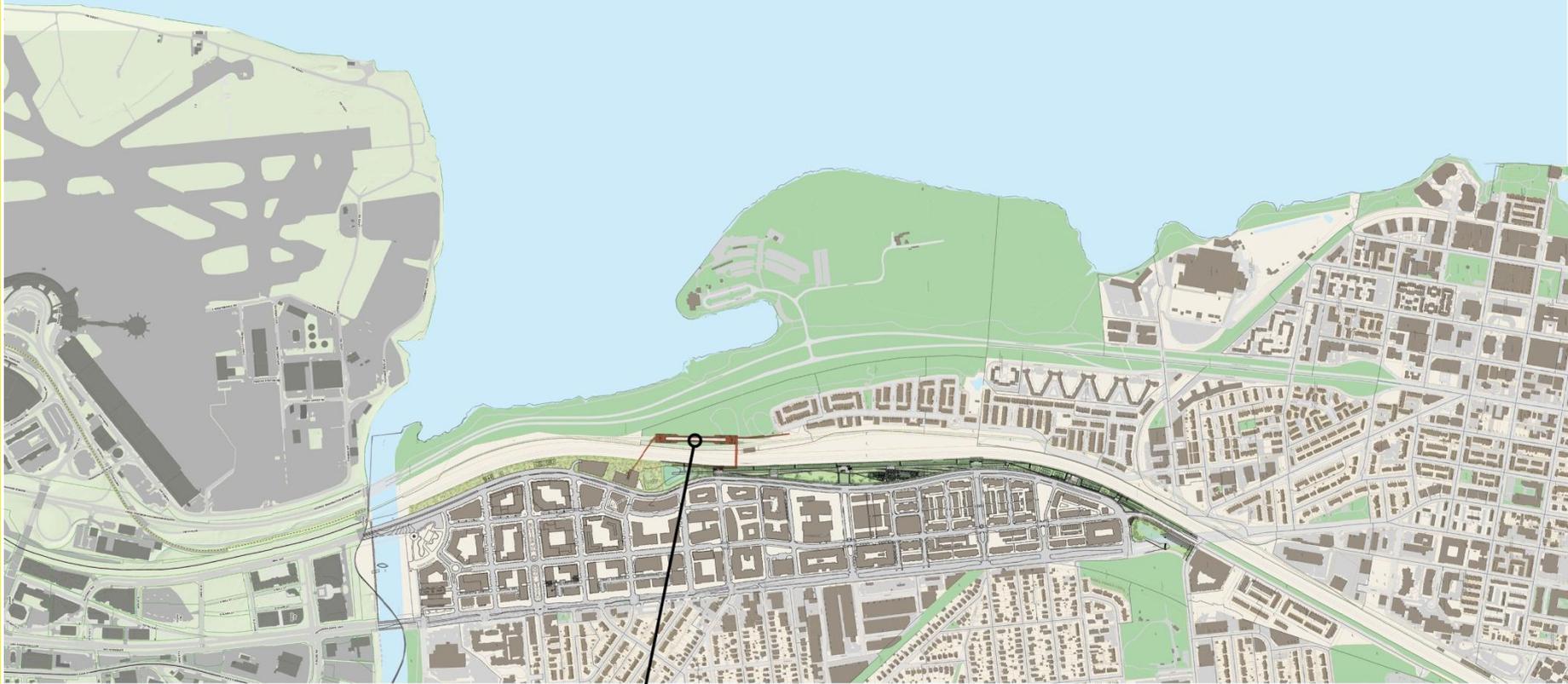
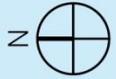


DESIGN CONTEXT

CONCEPTUAL SITE PLAN



BACKGROUND - CONTEXT



**POTOMAC YARD
METRO RAIL STATION
DSUP SITE**

GEORGE WASHINGTON MEMORIAL PARKWAY



POTOMAC YARD



POTOMAC GREENS/OLD TOWN GREENS





Group Exercise

DESIGN PRINCIPLES





DESIGN PRINCIPLES

APPEARANCE

The station design and materials will be high quality, enduring, cohesive, and reflect the function of the station

The materials will be appropriate to the use and scale of the station

CONTEXT

The station design and configuration will balance the characteristics of the various settings - the adjoining parks, parkway, residential and mixed-use neighborhoods

ENVIRONMENT

The station and infrastructure will be designed to enhance its immediate environment of wetland, woodland, and open space

The station system design will make use of materials and strategies that are environmentally sensitive

ACCESS

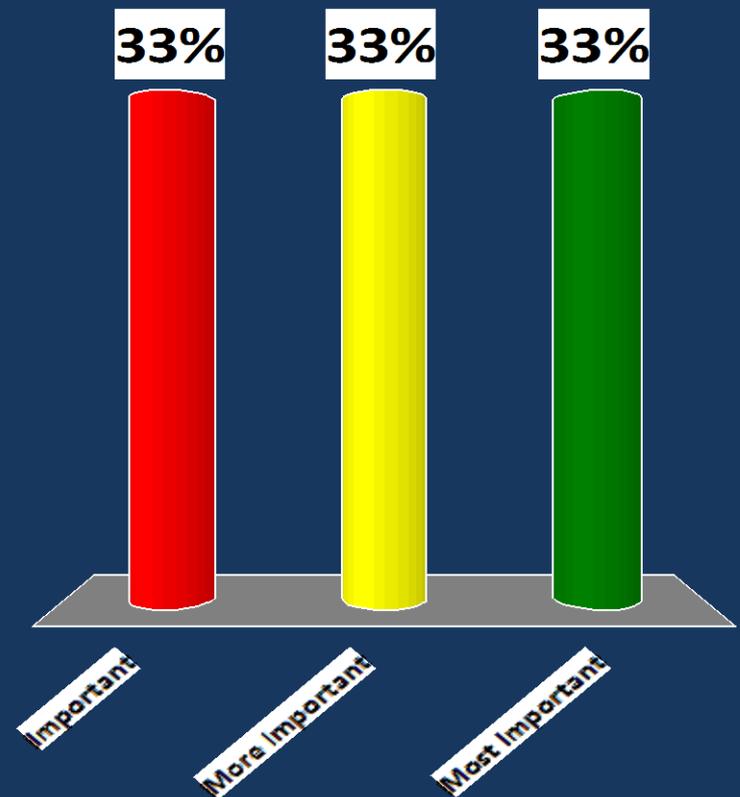
The station and its elements will make the transit experience pleasant and efficient

HOW IMPORTANT IS APPEARANCE TO YOU?

The station design and materials will be high quality, enduring, cohesive, and reflect the function of the station.

The materials will be appropriate to the use and scale of the station

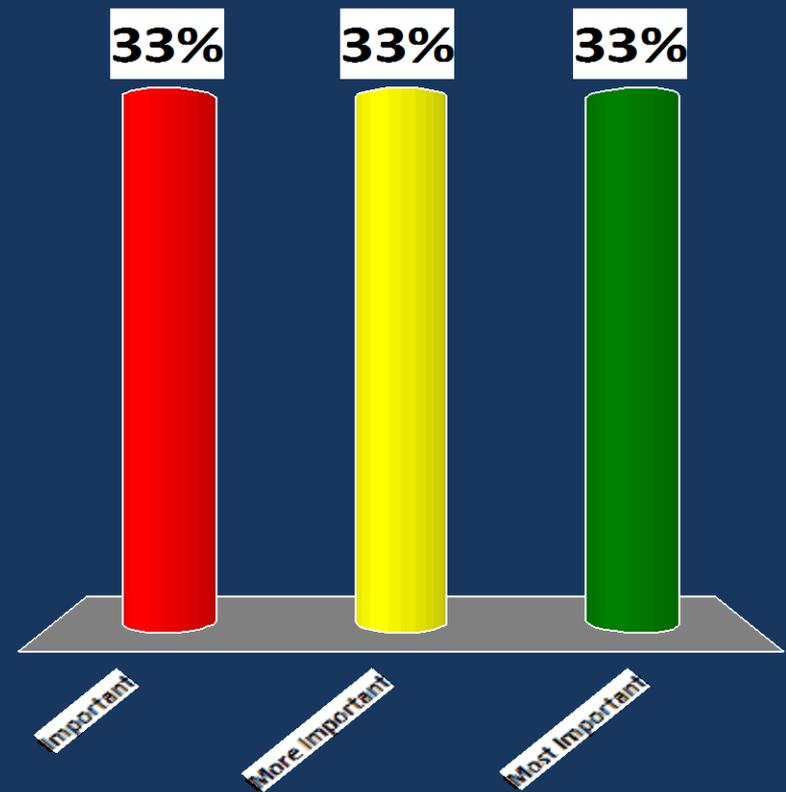
- A. Important
- B. More Important
- C. Most Important



HOW IMPORTANT IS **CONTEXT** TO YOU?

The station design and configuration will balance the characteristics of the various settings - the adjoining parks, parkway, residential and mixed-use neighborhoods

- A. Important
- B. More Important
- C. Most Important

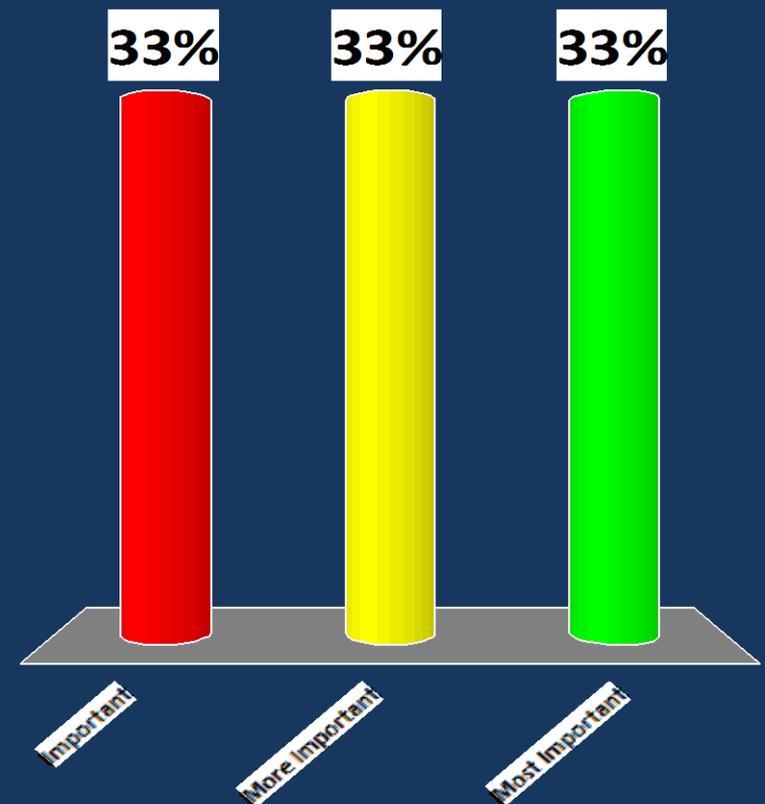


HOW IMPORTANT IS ENVIRONMENT TO YOU?

The station and infrastructure will be designed to enhance its immediate environment of wetland, woodland, and open space

The station system design will make use of materials and strategies that are environmentally sensitive

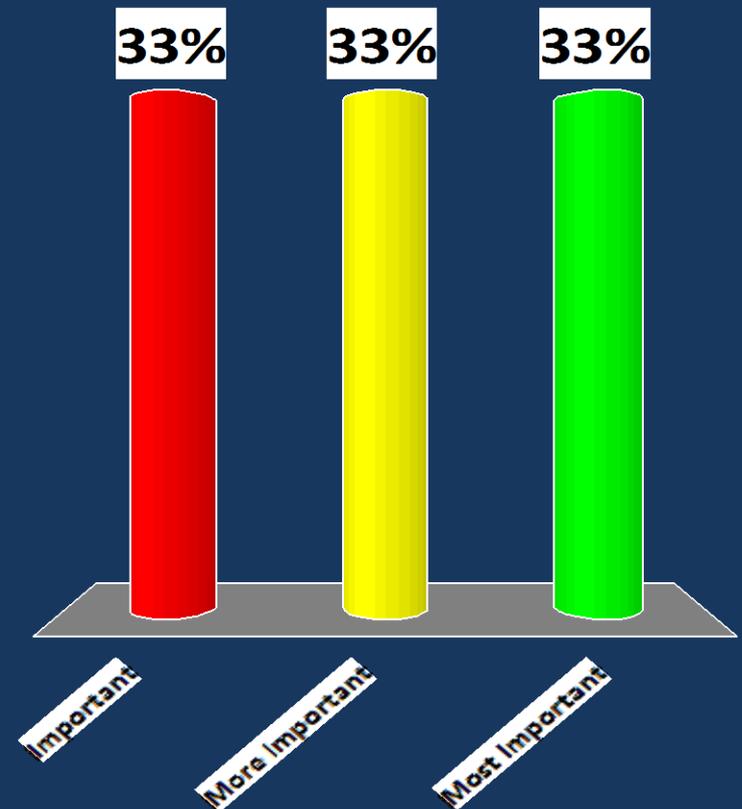
- A. Important
- B. More Important
- C. Most Important



HOW IMPORTANT IS **ACCESS** TO YOU?

The station and its elements will make the transit experience pleasant and efficient

- A. Important
- B. More Important
- C. Most Important



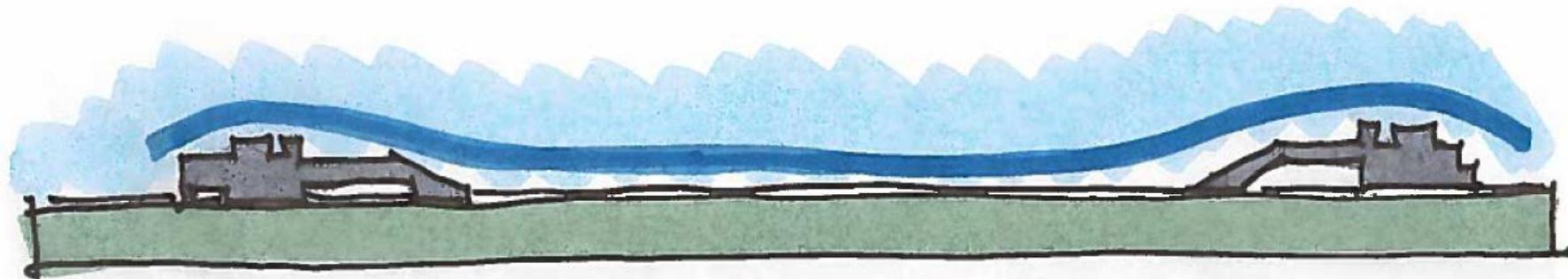
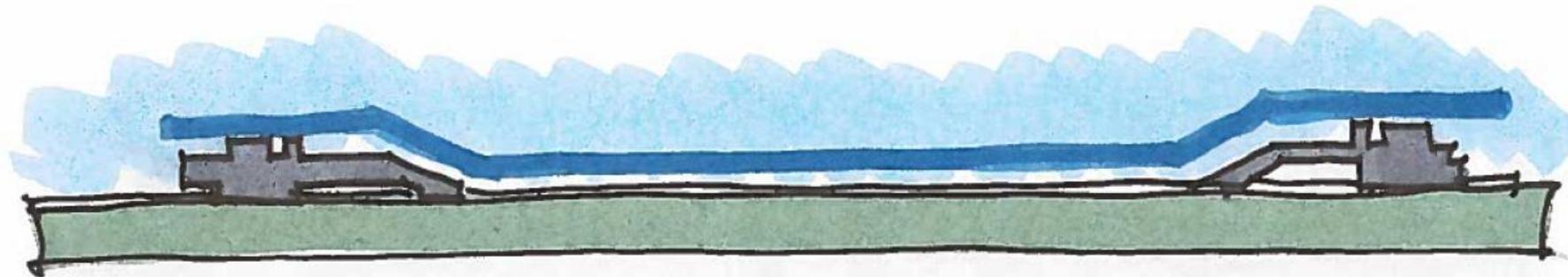


Group Exercise

DESIGN STRATEGIES



METRO STATION ENCLOSURES





DESIGN STRATEGIES

Robust vs Light

Curvilinear vs Geometric

Single Facility vs Multiple
Components

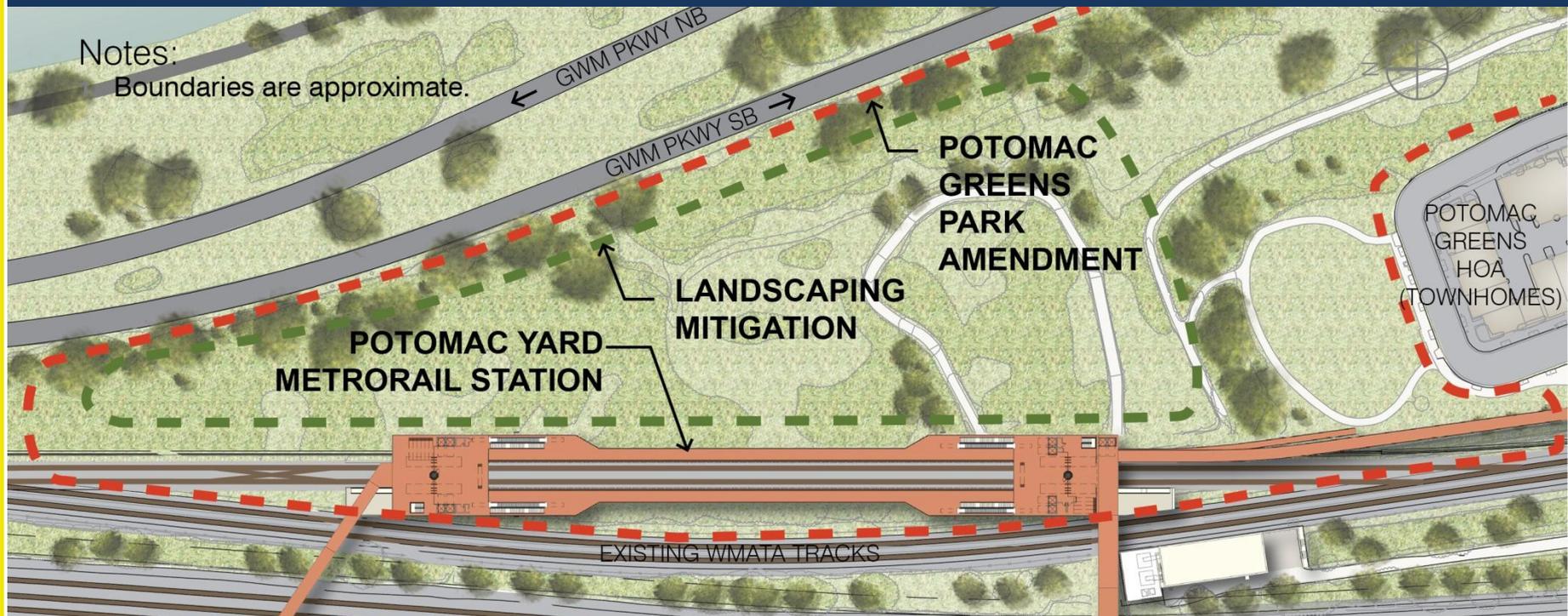


Group Exercise

PARK PROGRAMMING

POTOMAC GREENS PARK

- Approved by City Council in 2004
- City Owned
- Character is a neighborhood park
- A portion of the Greens Scenic Area Easement will be transferred to the Parkway



POTOMAC GREENS PARK

PARK ELEMENTS

Existing Elements

- Open Lawn
- Small Playground
- Seating
- Walking Paths
- Nature Trails
- Gazebo

Primary Metrorail Elements

- Pedestrian/Bike Bridge Landing (24/7)
- Station Entrance
- Maintenance Access Road
- Bike Parking



POTOMAC GREENS PARK

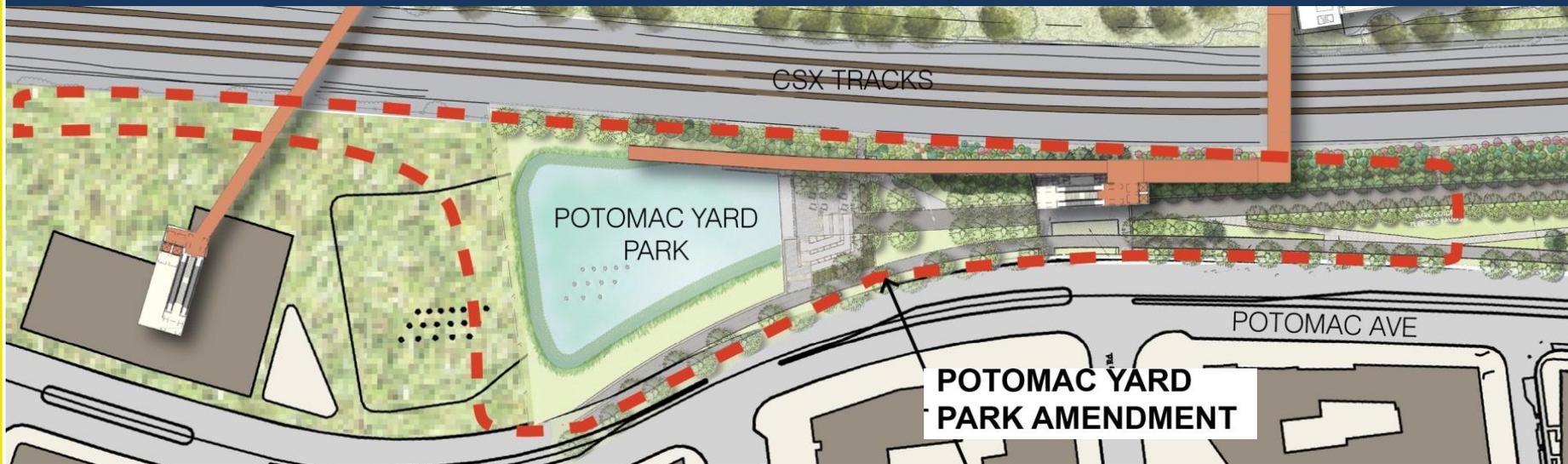
PARK ELEMENTS

- Existing elements analyzed based on:
 - 2015 Park and Recreation Needs Assessment
 - Alexandria Playspace Policy
 - Adjacent neighborhood
 - Typical park elements in neighborhood parks
- Recommendations:
 - Retain existing elements
 - Add the Metrorail elements
 - Potentially add:
 - Picnic Shelter
 - Gathering Space/Plaza



POTOMAC YARD PARK

- Approved by City Council in 2008
- Amended in 2010
- City Owned
- Character is a regional park



POTOMAC YARD PARK

PARK ELEMENTS

Existing Elements

- Plaza Area
- Picnicking Area
- Seating
- Multi-Use Trail
- Walking Paths
- Open Lawn

Primary Metrorail Elements

- Pedestrian/Bike Bridge Landing (24/7)
- Station Entrance
- Bike Parking



POTOMAC YARD PARK

PARK ELEMENTS

- Existing elements analyzed based on:
 - 2015 Park and Recreation Needs Assessment
 - Alexandria Playspace Policy
 - Adjacent neighborhood
 - Proposed North Potomac Yard planned development
 - Potomac Yard Small Area Plan requirements
 - Typical park elements in regional parks
- Recommendation:
 - Retain existing elements
 - Add the Metrorail elements
 - Potentially add:
 - Event Space/
Performance Area





NEXT STEPS

NEXT STEPS

- Develop design concepts
 - Station
 - Bridges
 - Landscape
- Develop park program
- Update Boards and Commissions
- Update City Council
- Finalize EIS
- **Next PYMIG Meeting: November 16**

GROUP EXERCISES

Strategies Exercise

- Take three dots
- On each board, indicate your strategy preference:
 - Robust vs. Light
 - Curvilinear vs. Geometric
 - Single Facility vs. Multiple Components

Park Programming Exercise

- Take six dots
- On each board, indicate the elements that you would most like to see in each of the parks:
 - Potomac Greens Park
 - Potomac Yard Park

Sticky notes have been provided if you would like to provide additional comments



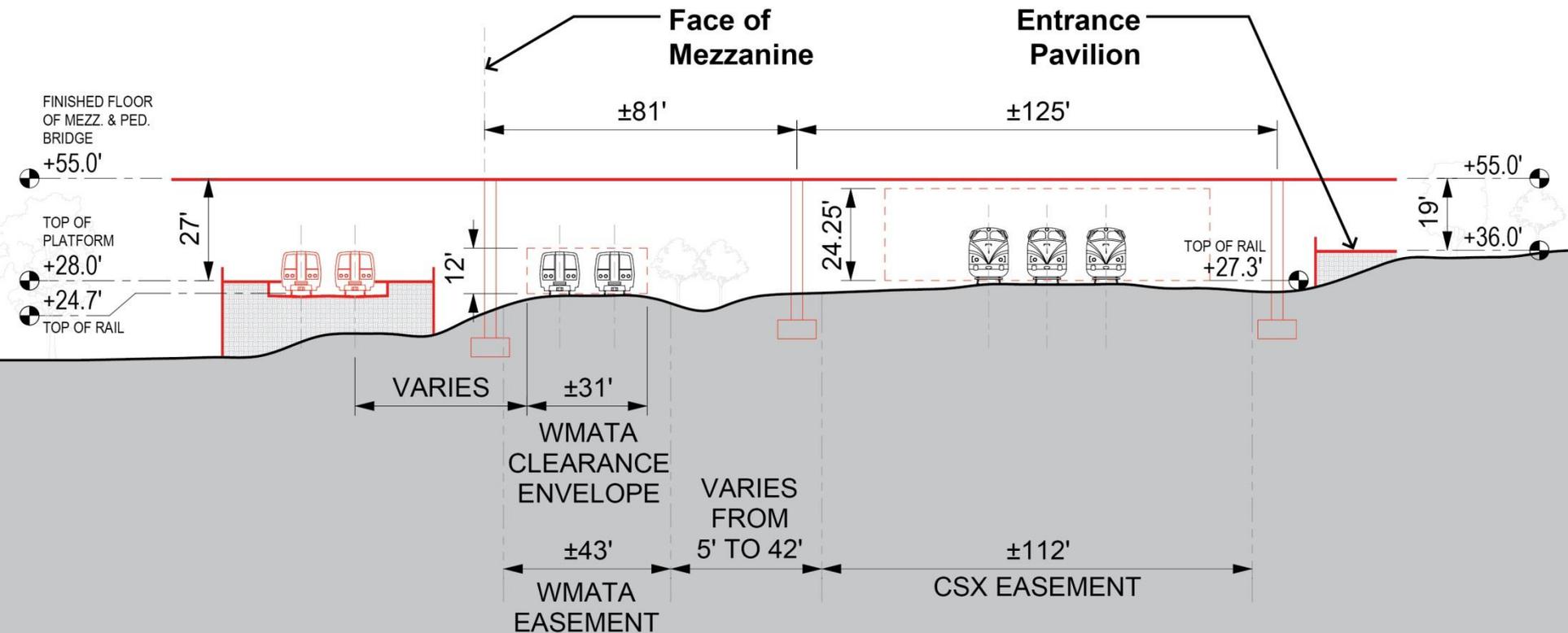
QUESTIONS?

For more information, visit:
www.alexandriava.gov/PotomacYard



APPENDIX



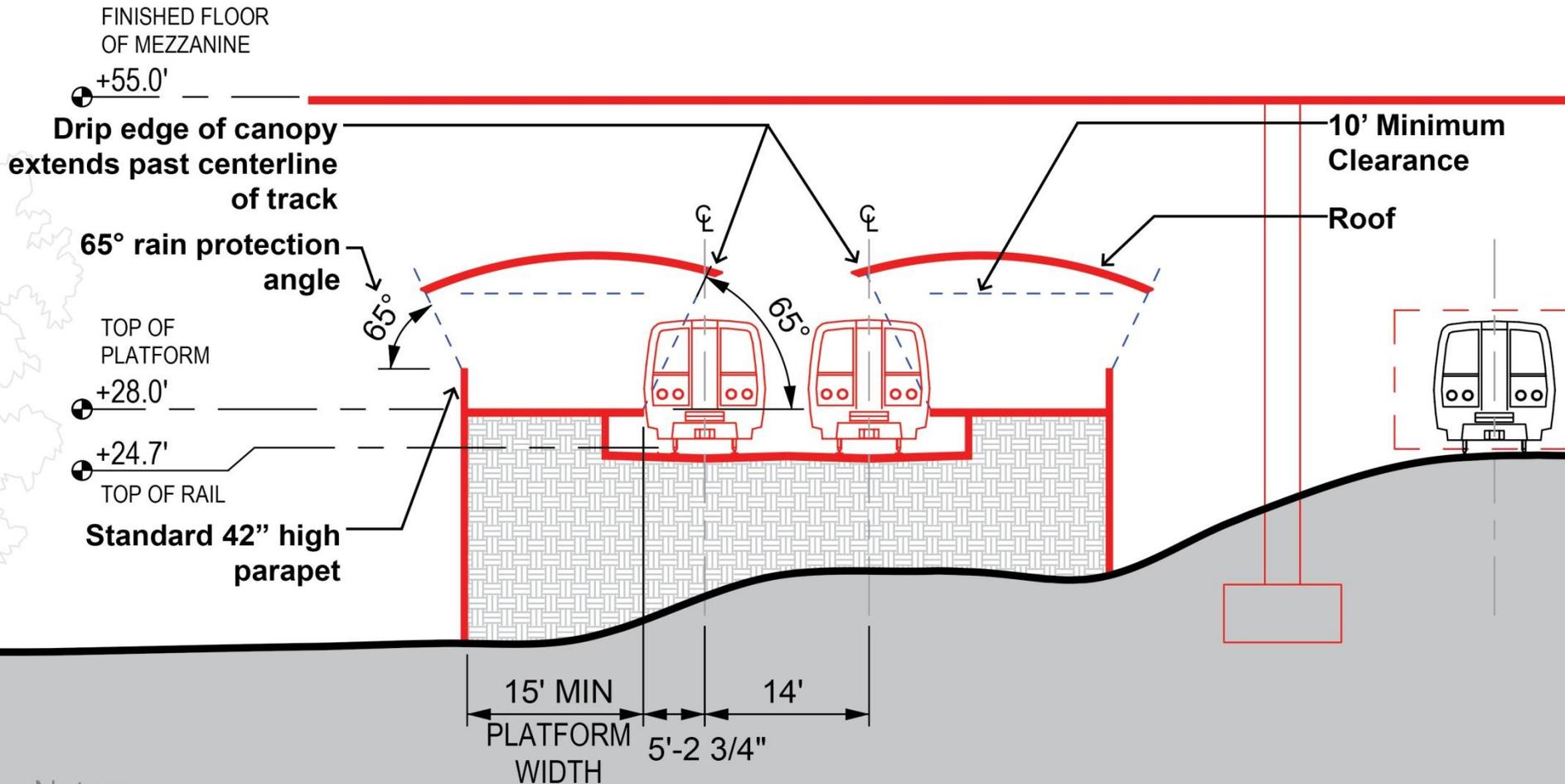


Notes:

1. The Pedestrian Bridge must clear the required CSX Track Clearance Envelope of 24.25' above the top of rail.
2. The Pedestrian Bridge columns & footings are placed outside of the CSX Easement dictating bridge span length.
3. The finished floor elevation of the Mezzanine is controlled by the finished floor elevation of the Pedestrian Bridge.

Key Plan



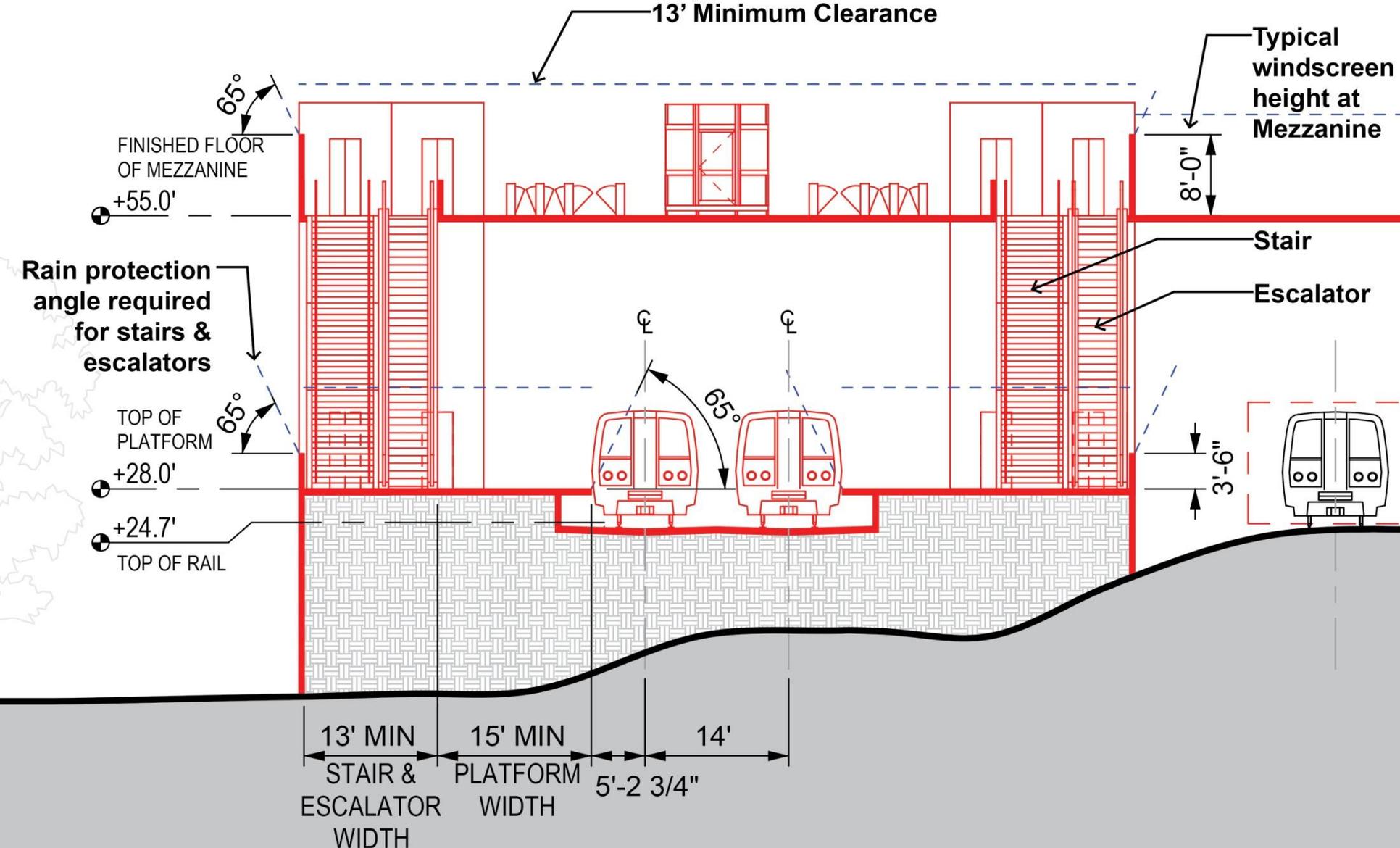


Notes:

1. Parapets are required at the perimeter of the Platform for at-grade stations. Minimum Parapet height is 3'-6".
2. Security measures and windscreens may be required on top of the parapet.
3. Minimum clearance above the finished floor of the Platform is 10'.

Key Plan



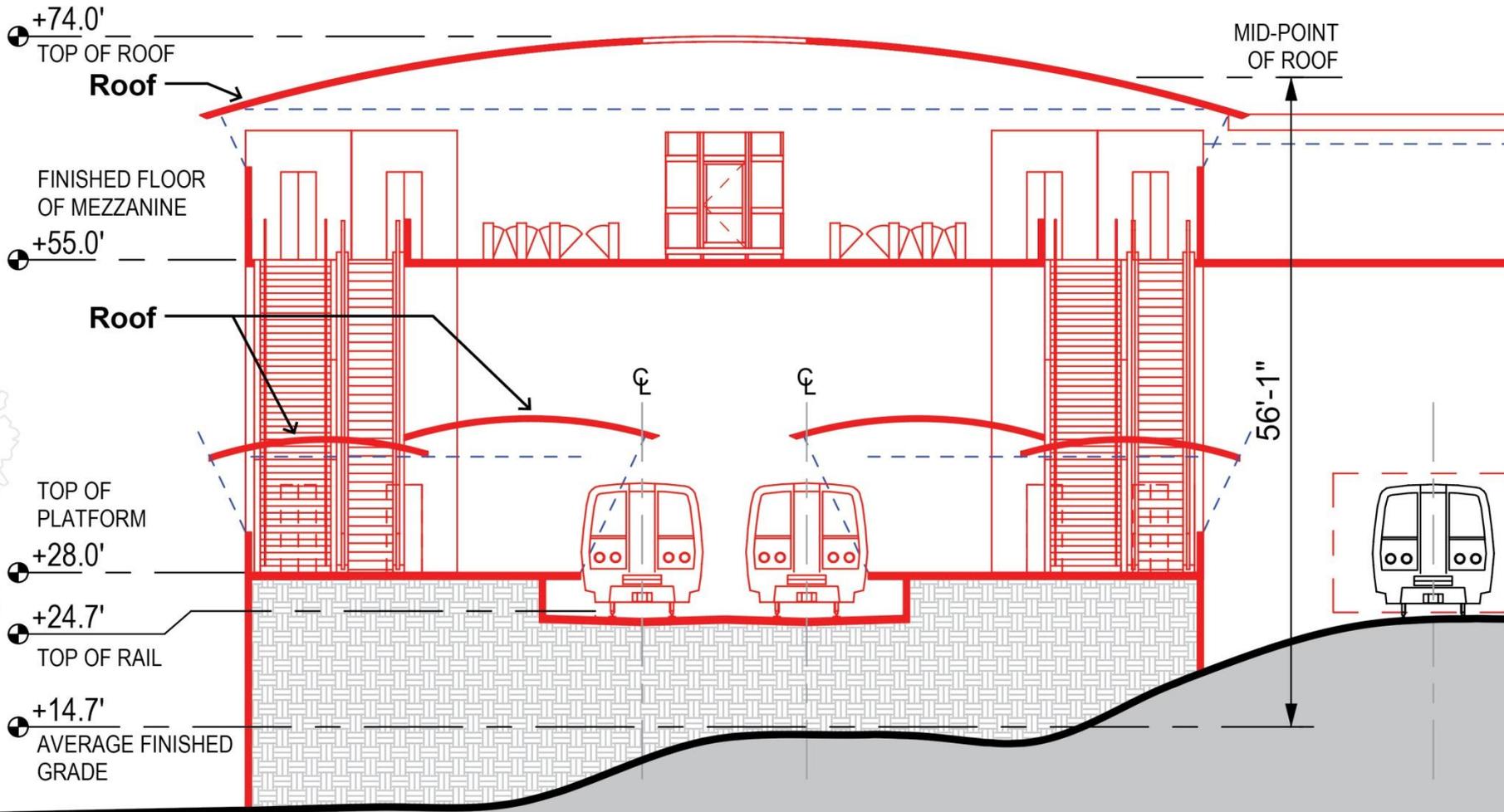


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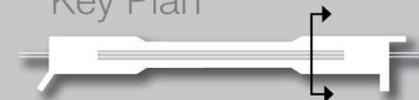
1. Minimum clearance above the finished floor of the Mezzanine is 13'.
2. Windscreens are required at the perimeter of the Mezzanine.

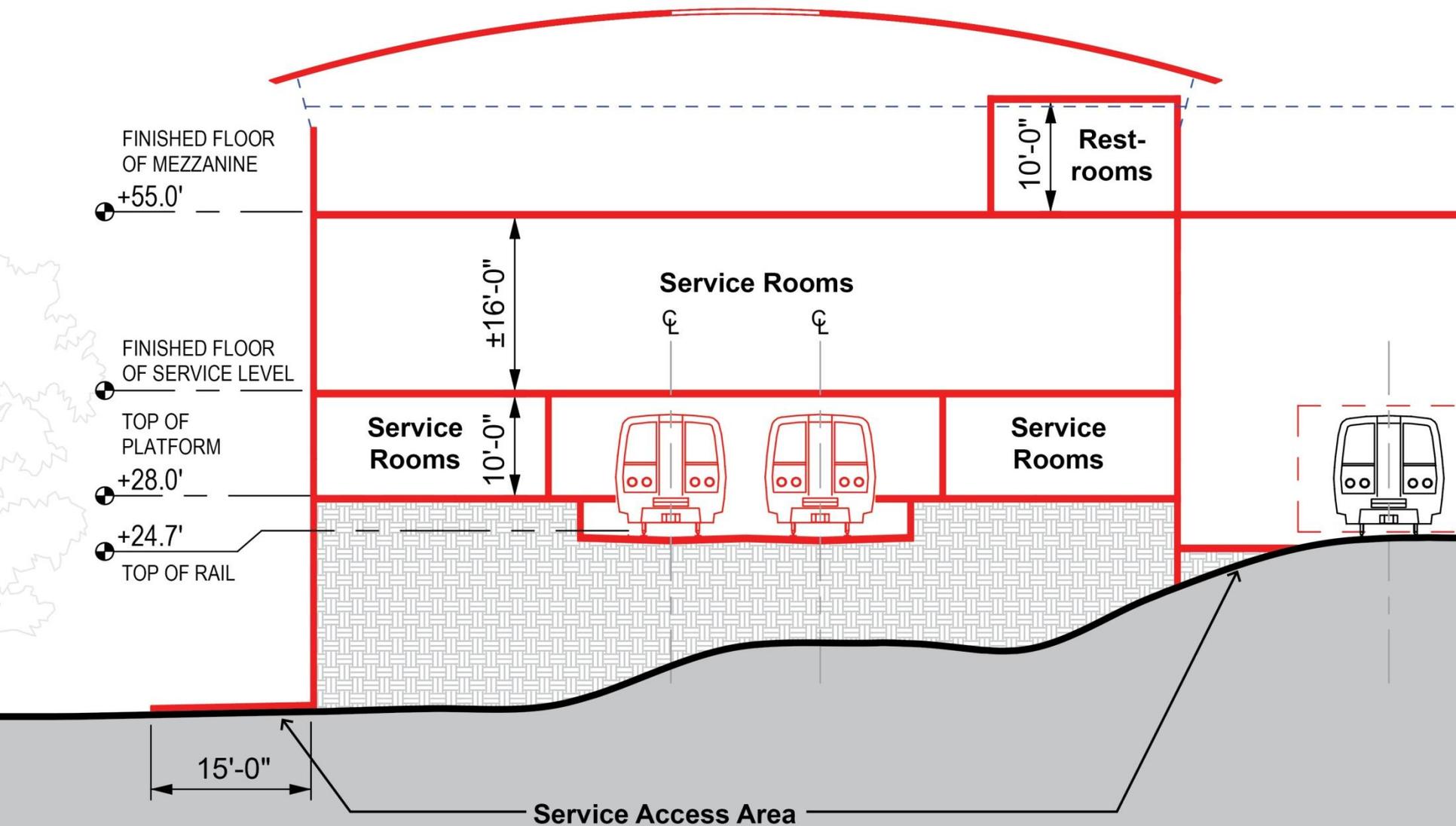
Key Plan





Key Plan





Notes:

1. The distance in elevation between the Platform & Mezzanine Levels provides the opportunity to stack the Service Rooms under the Mezzanine instead of adding to the length of the station.

Key Plan

