



# KLINGLE VALLEY TRAIL

## **KLINGLE VALLEY TRAIL CONTEXT SENSITIVE DESIGN/CONTEXT SENSITIVE SOLUTIONS STAKEHOLDER MEETING**

November 12, 2013



# KLINGLE VALLEY TRAIL

## Agenda

- Welcome/Introductions
- Project Update
- Workshop Objectives
- What is CSD/CSS?
- Breakout Session to Review Design Options for
  - Lighting, Fencing, Furniture, Signage, and Boardwalk Options



# KLINGLE VALLEY TRAIL

## Project Update

- Currently at 65% Design
  - Studied Boardwalk Options
  - Refined Stream Restoration Design
  - Gathered More Information on Permeable Materials
- Coordination with Utility Companies
- Consultation with NPS and DCHPO



# KLINGLE VALLEY TRAIL



## Meeting Logistics

- Meeting Facility
- Meeting Norms
  - Respect opinions
  - No bad ideas
  - Not a vote today
- Stay on Schedule
- The Parking Lot

## Tonight's Meeting Objective

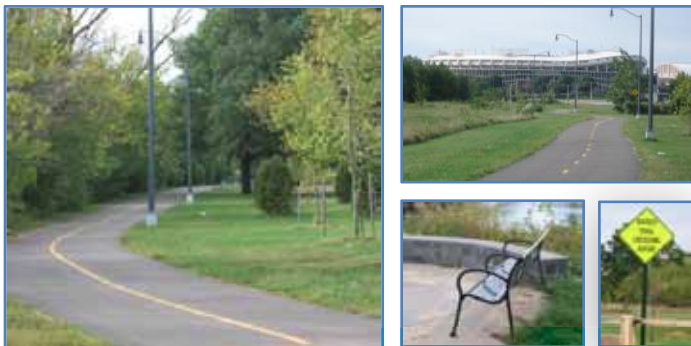
- To gain stakeholder input on five different design details that will help define the character of the trail



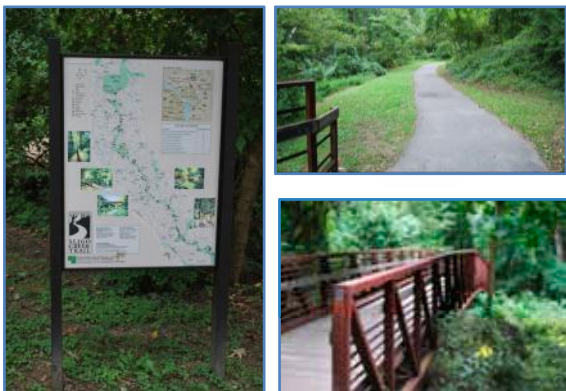
# KLINGLE VALLEY TRAIL

## Trail Character

### Anacostia Riverwalk Trail



### Sligo Creek Trail



### Rock Creek Trail



### Mount Vernon Trail



## Context Sensitive Design/Context Sensitive Solutions

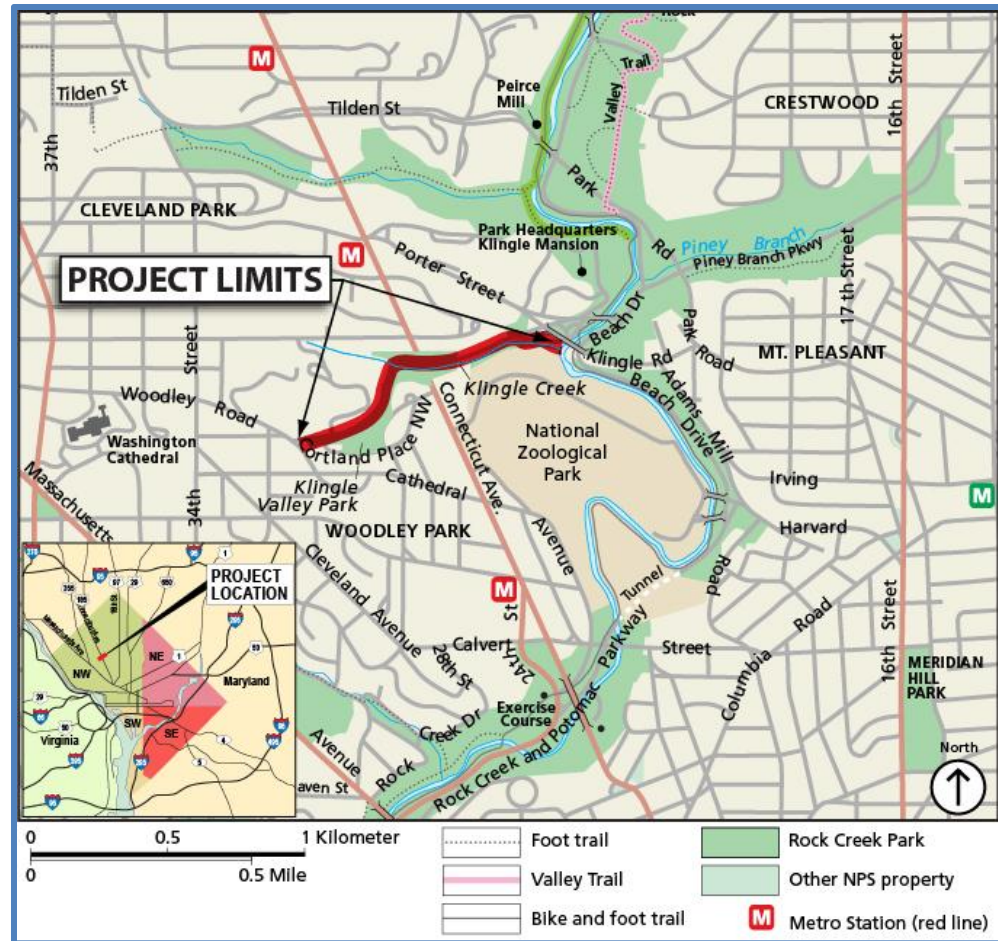
### ■ DEFINITION

- Collaborative, interdisciplinary approach that involves all stakeholders in providing a transportation facility that fits its setting.
- An approach that leads to preserving and enhancing scenic, aesthetic, historic, community and environmental resources, while improving or maintaining safety, mobility, and infrastructure conditions.

# KLINGLE VALLEY TRAIL

## Project Location

- Segment within Klingle Valley from Cortland Place, NW to Porter Street, NW





## Background/History

- Legislation - “Klingle Road Sustainable Development Amendment Act of 2008”
- Prepared Environmental Assessment with supporting 30% Design Plans
- Completed NHPA Section 106 Coordination with DC HPO

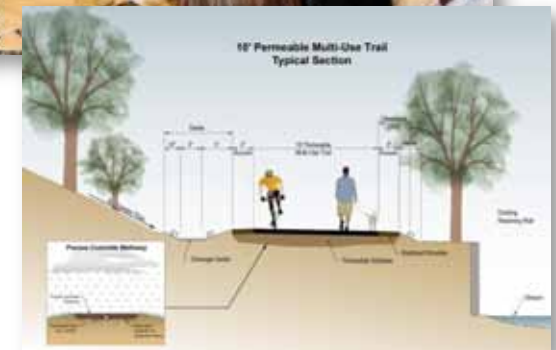




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## Existing Project CSD/CSS Principles

- Permeable Pavement
- Installation of a Bioswale
- Natural Stream Restoration Techniques
- Replace Retaining Walls
- Removal of Existing Road Infrastructure



# KLINGLE VALLEY TRAIL

## Project Area



# KLINGLE VALLEY TRAIL

## Project Context



## Maintenance & Utility Access

- DDOT infrastructure maintenance
  - Trail Maintenance
  - Inspections: Proposed Boardwalk and Connecticut Avenue Bridge
- Utilities and Agencies
  - DC Water (Sanitary and Storm Drains),
  - Washington Gas
  - WMATA
- Periodic closures will be needed

## Design Considerations

- Breakout into Groups
- Focus on Design Elements
- Provide Design Criteria and Options for
  - Lighting
  - Furniture
  - Fencing
  - Signage
  - Boardwalk
- Discuss Advantages and Disadvantage

## Design Considerations

### ■ Lighting

- Types of lighting – pole and/or bollard lighting; employing energy efficient lighting technology.
- Illumination considerations.
- Solar lighting and bollard lighting were considered.



# KLINGLE VALLEY TRAIL

## Lighting Options

- 1. Holophane Galswerks LED
- 2. Alcott Concord
- 3. Philips Lumiec Metroscape



1



2



3



## Design Considerations

### ■ Furniture (Benches)

- Location
  - At trail termini and one intermediate spot.
  - Consider Safety (not in a secluded area)
- Number of benches
- Type of Bench - Metal, Wood, Recycled Material

## Bench Options

- 1. Green Iron Bench
- 2. Green Armless Bench with Horizontal Slats
- 3. Black Iron with Wide Wooden Slats



1



2



3

## Design Considerations

### ■ Fencing

#### ● Location

- Consider safety and bicycle users
- Located at property/right-of-way line and match the existing fence type

#### ● Materials

- Wood – For safety & bicycle friendliness along the trail
- Metal – To be placed on the property/right-of-way line



# KLINGLE VALLEY TRAIL

## Fence Options Along The Trail

- 1. Slope Top
- 2. Split Rail
- 3. Flat Top



1



2



3

## Design Considerations

### ■ Signage

- General Informational - Approach roadway/trail and provides trail information
- Warning – Similar to the yellow roadway warning signs
- Regulatory (Use Control) – Informs the user of laws and regulations
- Trailhead Informational Kiosk – Provide trail information as well as opportunity to provide information for site history or connectivity to DC Trail Network



# KLINGLE VALLEY TRAIL

## General Informational Sign

- Information and Directional
  - Location – Gives users direction
  - Type/Brand – Can use standard white on brown
  - Materials – Metal, wood or recycled



## Warning and Regulatory Sign

### ■ Warning

- Location
- Type/Brand – Standard black/yellow
- Materials – Metal



Sign image from the Manual of Traffic Signs <http://www.tyffice.gov/>  
The sign image copyright Richard C. Moore. All rights reserved.

### ■ Regulatory

- Location – Along the trail
- Type/Brand – Standard black/yellow
- Materials – Metal, wood or recycled





# KLINGLE VALLEY TRAIL

## Trailhead Informational / Kiosk

### ■ Trailhead Informational

- Location – Start of trail
- Type/Brand – Single or multiply boards
- Materials – Metal, wood or recycled





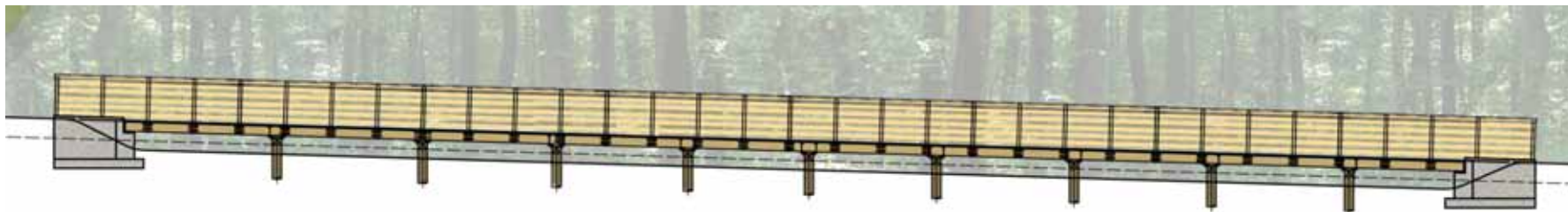
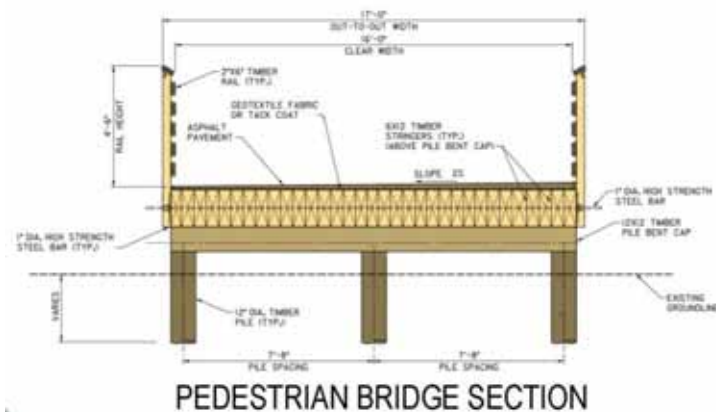
## Design Considerations

- Boardwalk/Bridge
  - Purpose
    - To allow the creek to overflow into the floodplain on the north side of the trail
  - Materials – Wood, Metal, Concrete, or combination
  - Rail – Wood or Metal
  - Designed to handle maintenance vehicles



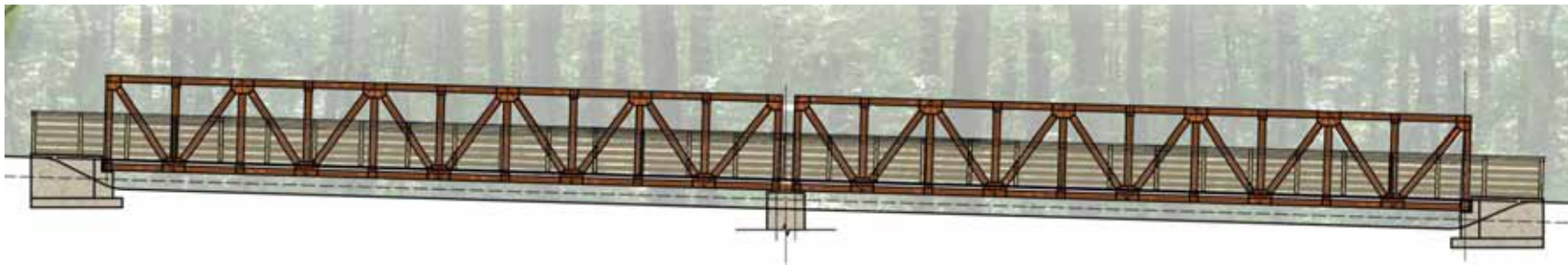
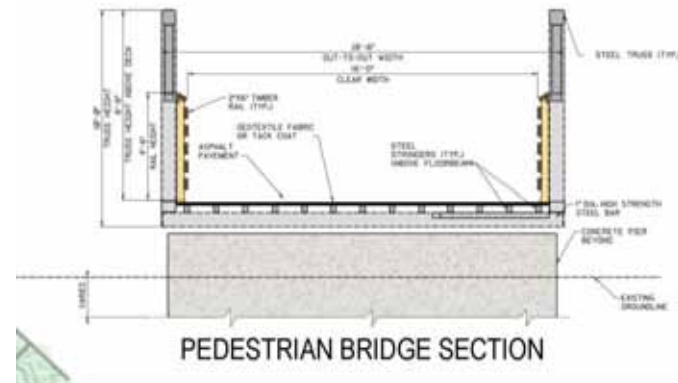
## Boardwalk Options

### ■ 1. TIMBER BOARDWALK WITH TIMBER RAILS



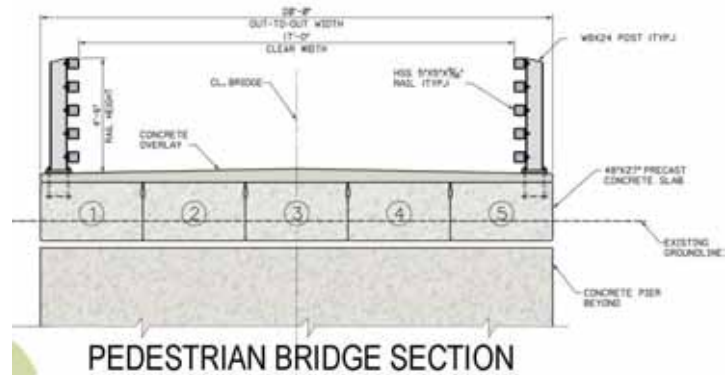
## Boardwalk Options

### ■ 2. THROUGH TRUSS BRIDGE



## Boardwalk Options

### ■ 3. PRECAST CONCRETE BRIDGE



## Schedule/Next Steps

- Public Meeting – Early December
  - Purpose is to inform public of project status and design options
- Design -
  - 65% Design – November 2013
  - Final Design – Spring 2014
- Advertise – Spring/Summer 2014
- Construction – Fall 2014

