LAKE-TO-LAKES TRAIL

City Planning Commission

October 7, 2014

STAGE 3
ENGINEERING PLANS

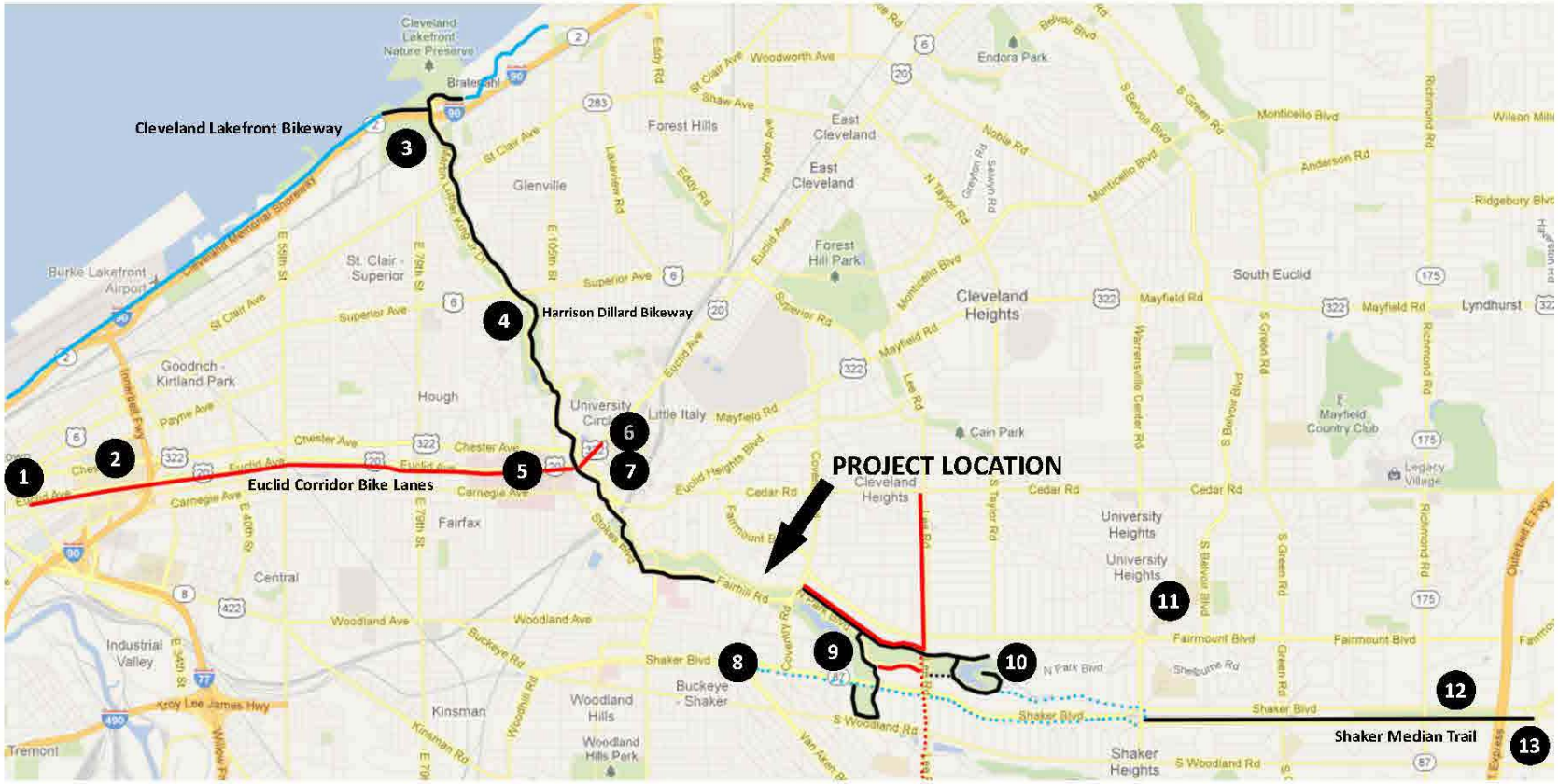
Project Overview

- Proposed in Shaker Heights Recreation & Leisure Plan (2005)
- Worked with regional partners to develop Master Plan (2008)
- Entire trail extends from Shaker Lakes to Lake Erie
- Cleveland section constructed in 2012

- Current section under design:
  - East 127/Fairhill (Shaker Heights) to
  - North Park/Coventry (Cleveland Heights)

Lake-to-Lakes Trail - Linkages and Connections

January 2013



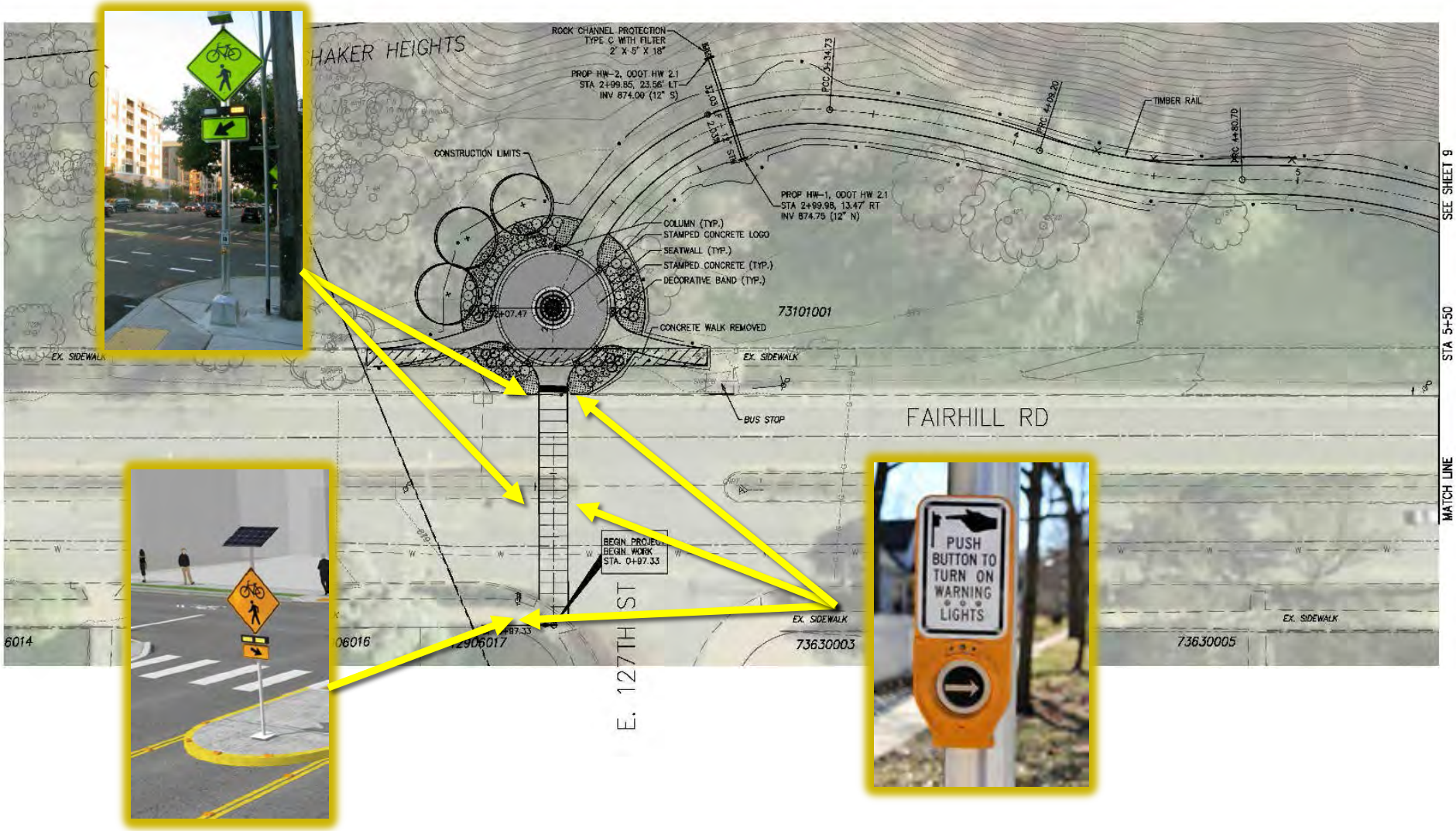
1 Downtown Cleveland
2 Cleveland State University
3 Cleveland Lakefront State Park
4 Rockefeller Park & Cleveland Cultural Gardens
5 Cleveland Clinic
6 University Circle
7 Case Western Reserve University
8 Shaker Square
9 Nature Center at Shaker Lakes & Southerly Park
10 Horseshoe Lake Park
11 John Carroll University
12 Beachwood City Park
13 Pepper Pike Park

- Off-road bike path
- Bike lanes
- Bike lanes (proposed)
- Bike route/sharrows
- Bike route/sharrows (to be completed 2013/2014)

Plan Elements

- Approximately ¾ mile in length
- 10’ wide asphalt multi-purpose path
- 10’ wide striped crosswalks & ped signals at signalized intersections
  - Coventry (Cleveland Heights)
  - North Moreland/South Park
  - Kemper
- 10’ wide crosswalk & RRFB flasher beacons at East 127 unsignalized intersection
- Nodes (4) with seating and other amenities at each intersection
- Trail signage

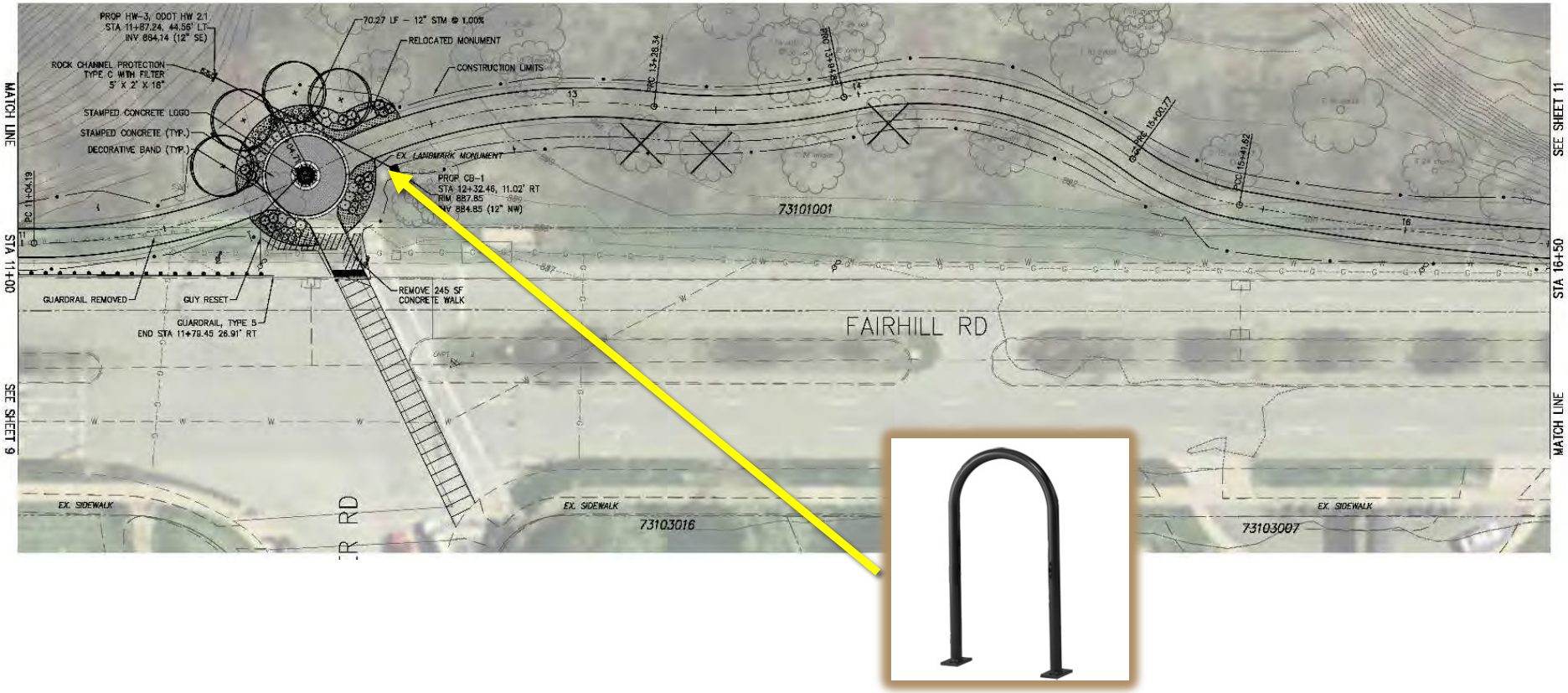
Stage 3 Alignment (@ East 127)



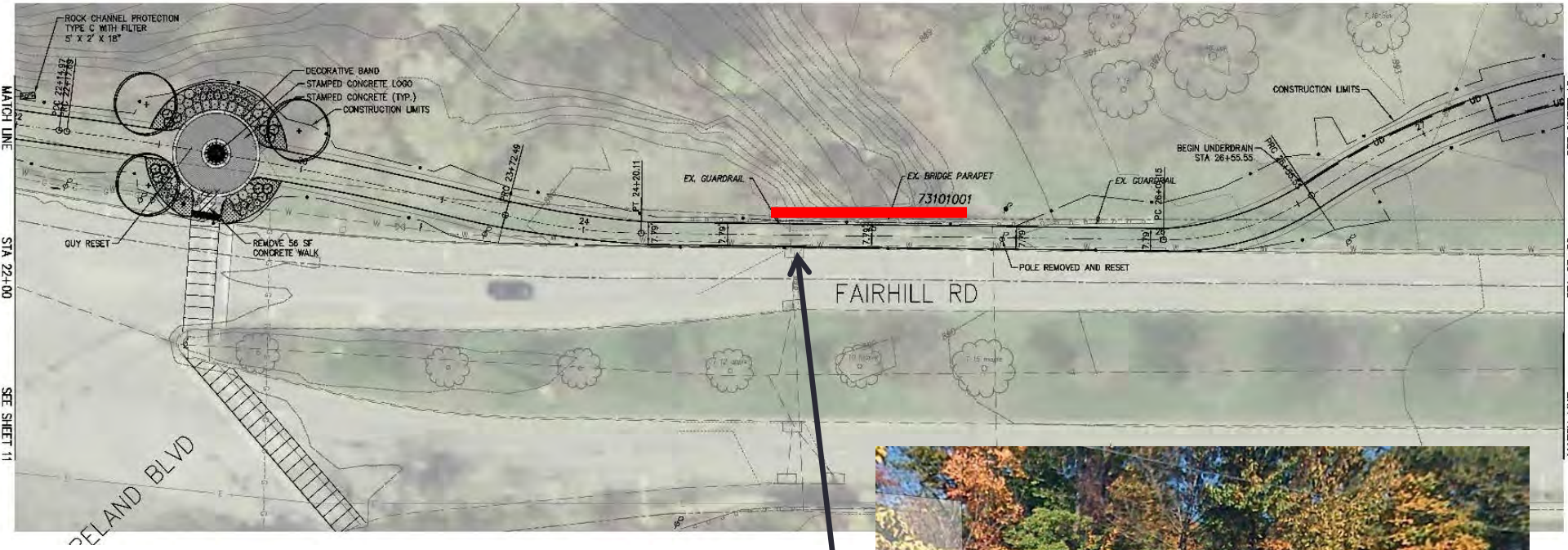
East 127 / Existing Conditions

East 127 / Proposed RRFB Beacon

Stage 3 Alignment (@ Kemper)



Stage 3 Alignment (@ N. Moreland)



Trail narrows to 7.8 feet over bridge

- Existing railing to remain
- Cautionary signage will be installed

Stage 3 Alignment (@ Coventry - CH)

Stage 3 Alignment (@ Park Entry - CH)

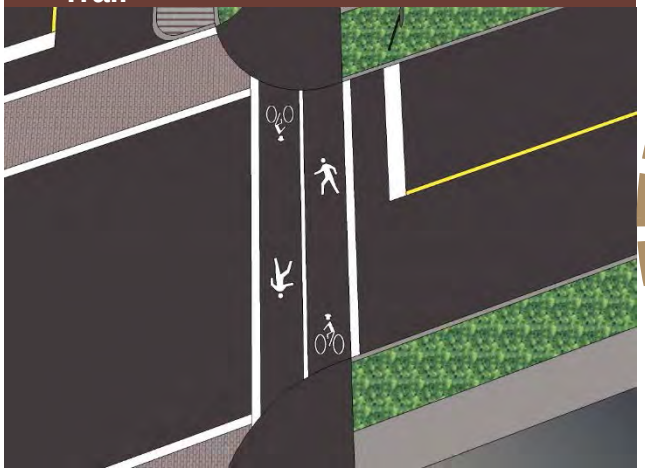
DESIGN ELEMENTS AND MATERIALS

Crosswalks

- **Zebra**

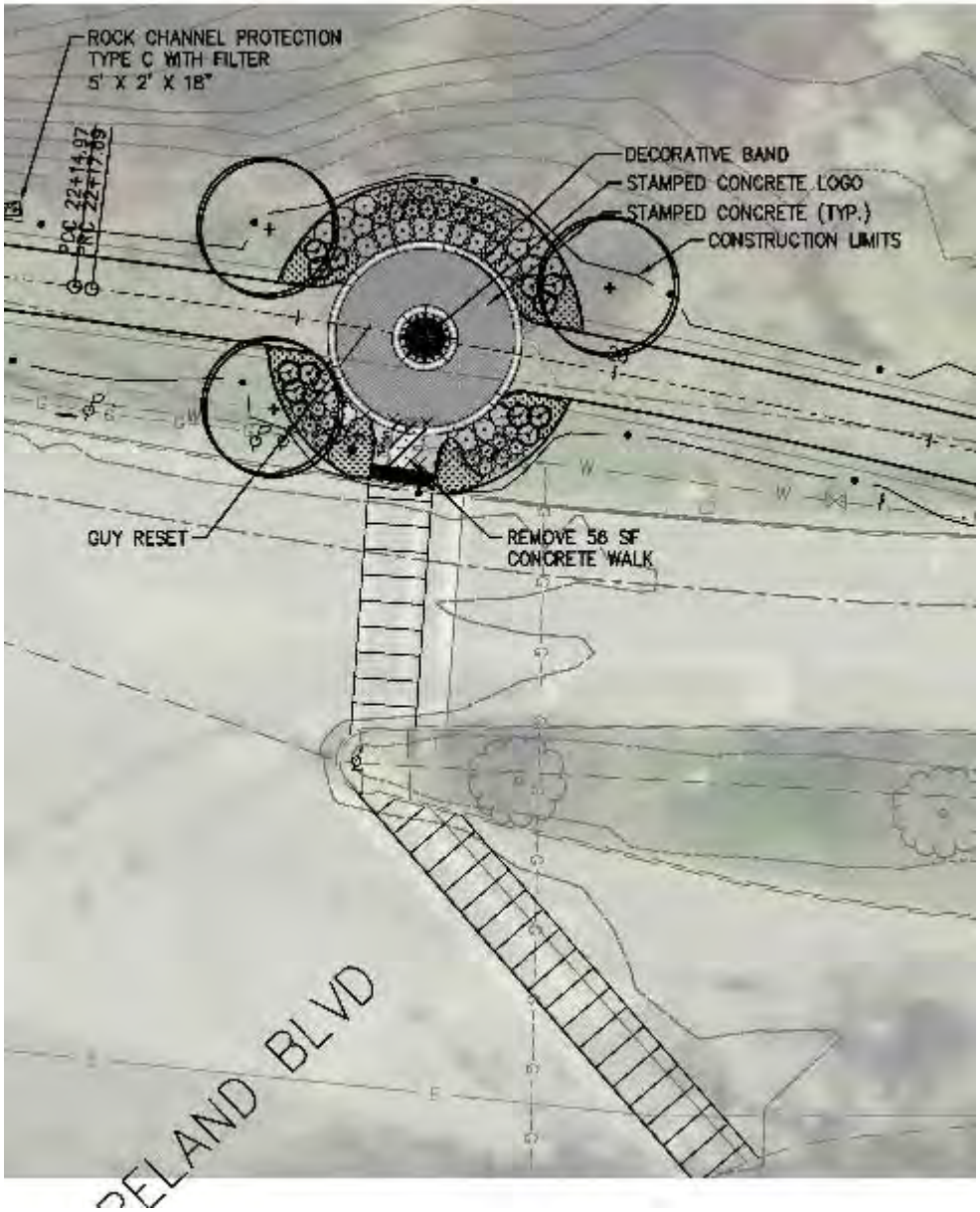
- **Continental**

- **Trail**



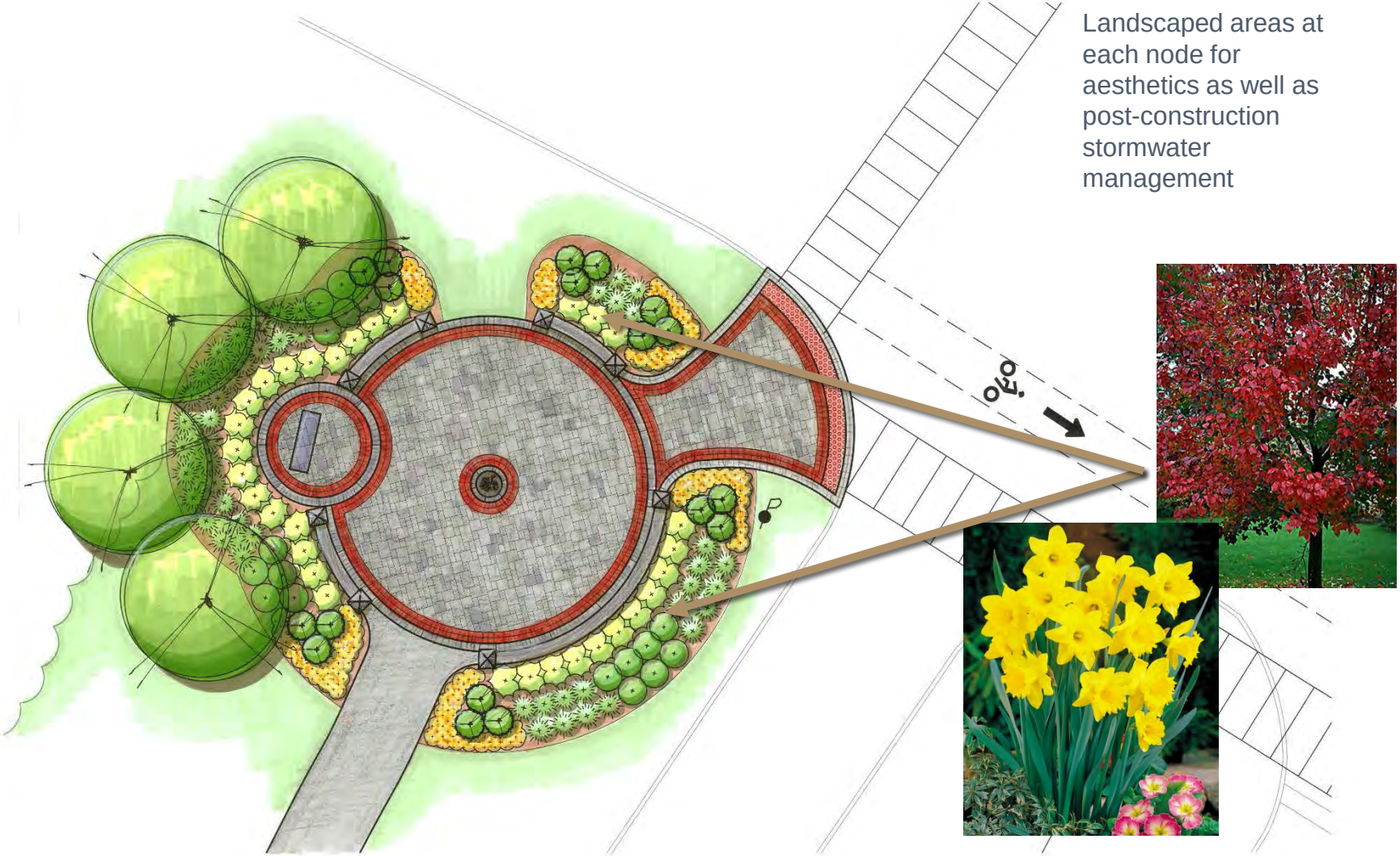
- **Ladder**

Crosswalks


ROCK CHANNEL PROTECTION
TYPE C WITH FILTER
5' X 2' X 18"
DECORATIVE BAND
STAMPED CONCRETE LOGO
STAMPED CONCRETE (TYP.)
CONSTRUCTION LIMITS
GUY RESET
REMOVE 56 SF
CONCRETE WALK
BELAND BLVD

Nodes/Trailheads

Nodes/Trailheads



Landscaped areas at each node for aesthetics as well as post-construction stormwater management

Ornamental Tree
Redspire Pear

Ornamental Grass
Karl Forester Reed Grass

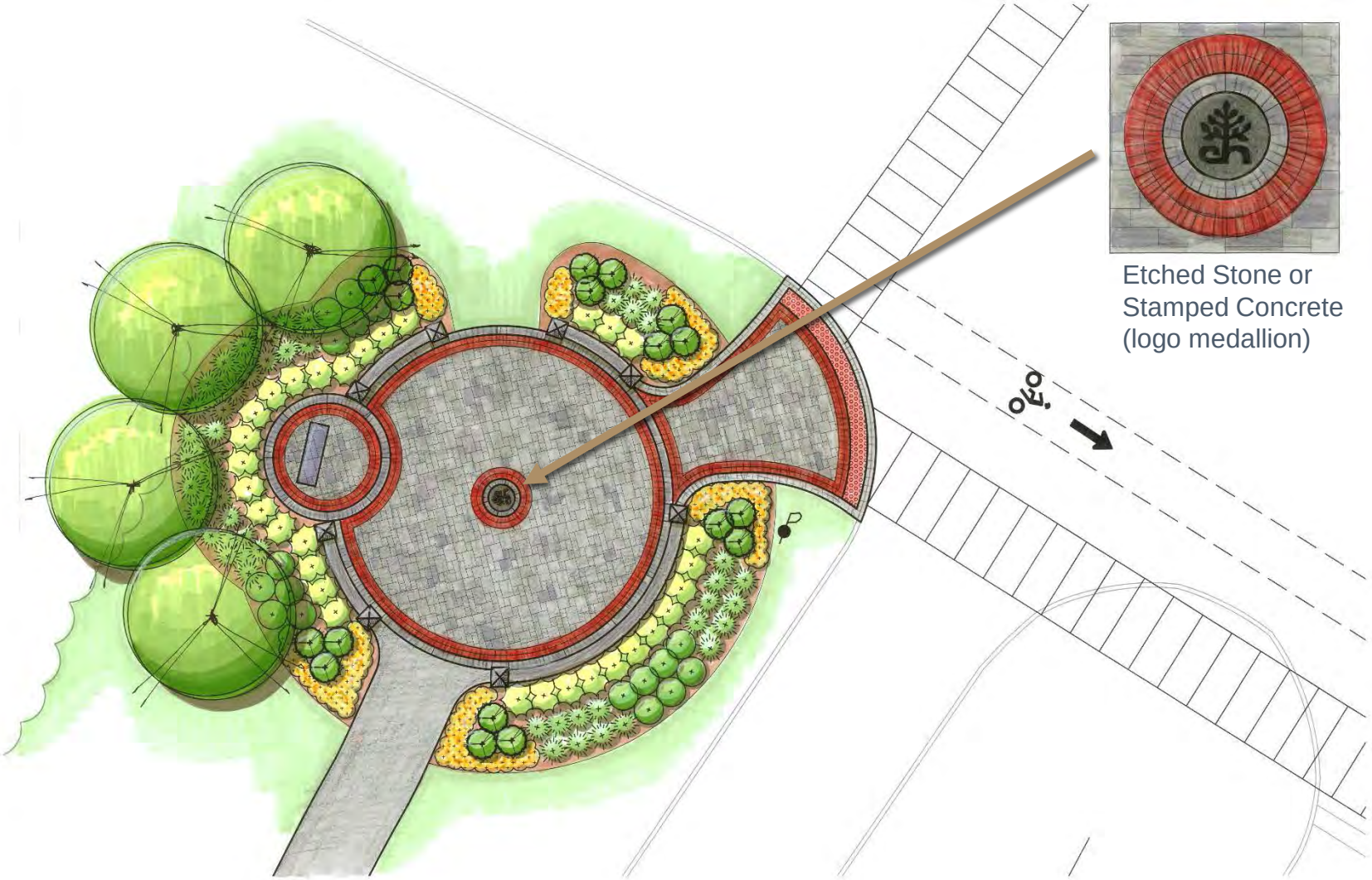
Shrubs
Peewee Hydrangea

Old Gold Juniper

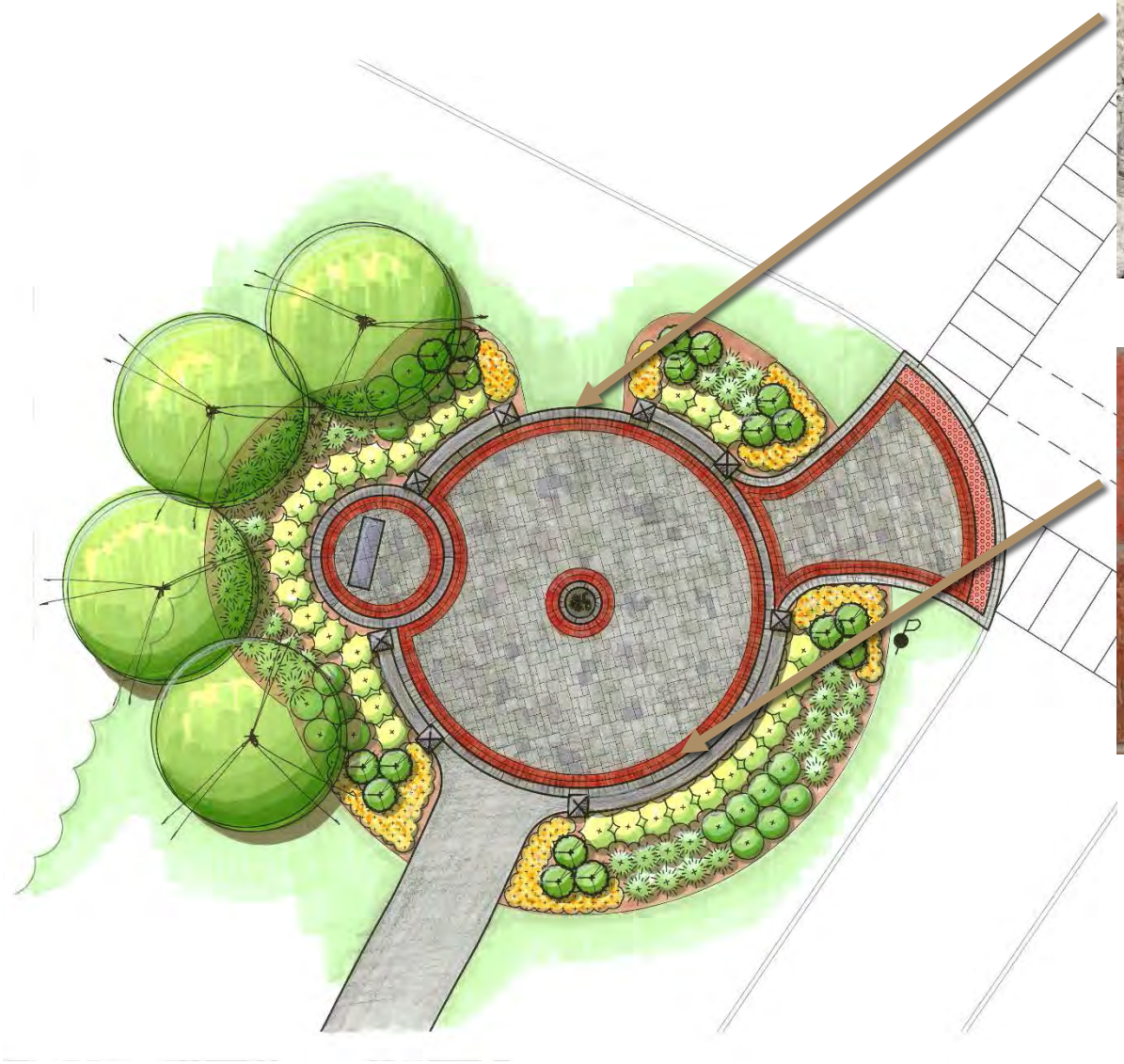
Tracy Spiraea

Perennial
Dutch Master Daffodil

Bulb
Happy Returns Daylily


Etched Stone or
Stamped Concrete
(logo medallion)

Stamped Concrete



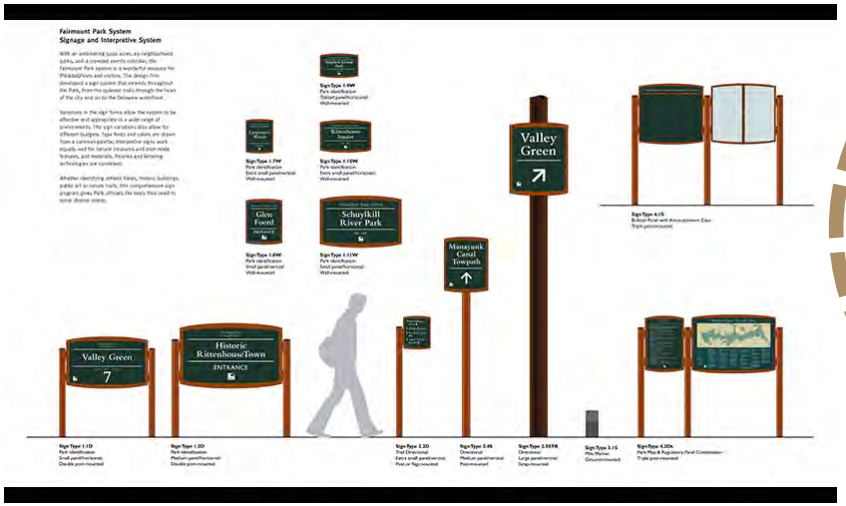
Cobbles (decorative band)

Brick Paver (decorative band)

Brick Seat Wall (with historical plaque on end – “Liberty Row”)

@ Coventry Node:
Cycle Aid Station

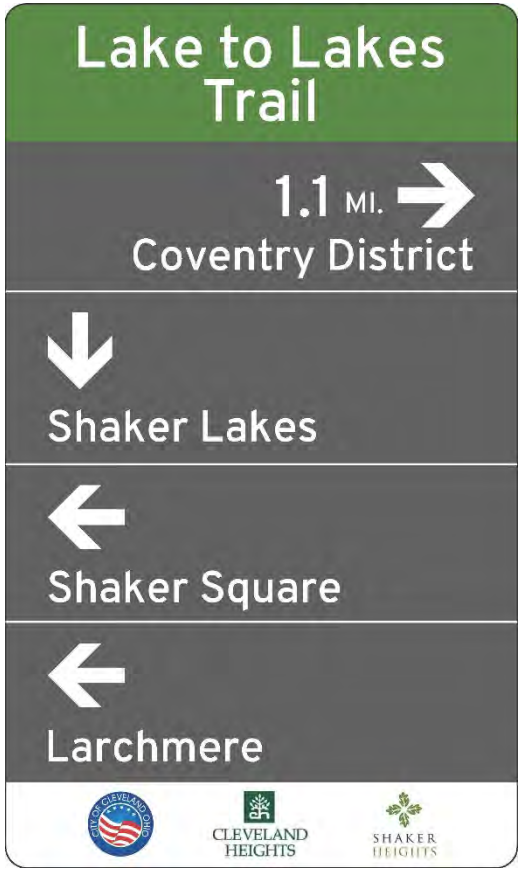
Signage



Proposed way- finding signage about canopy tour, challenge course, and hierarchy of trail systems

Proposed way-finding and educational signage about focal nodes and attractions along the trails

Sign Concepts



PROCESS, BUDGET & REVIEW OF COMMENTS

Funding/Process

- Funding available for project = $680,000
  - $480,000 Federal grant funds
  - $120,000 State grant funds
  - $ 80,000 Local funds (Shaker Heights & Cleveland Heights)
- Federal funding = Federal rules
- Must follow ODOT process for design and construction
- Public Meetings
  - June 16, 2014
  - August 27, 2014
- Much public input; all carefully evaluated & considered

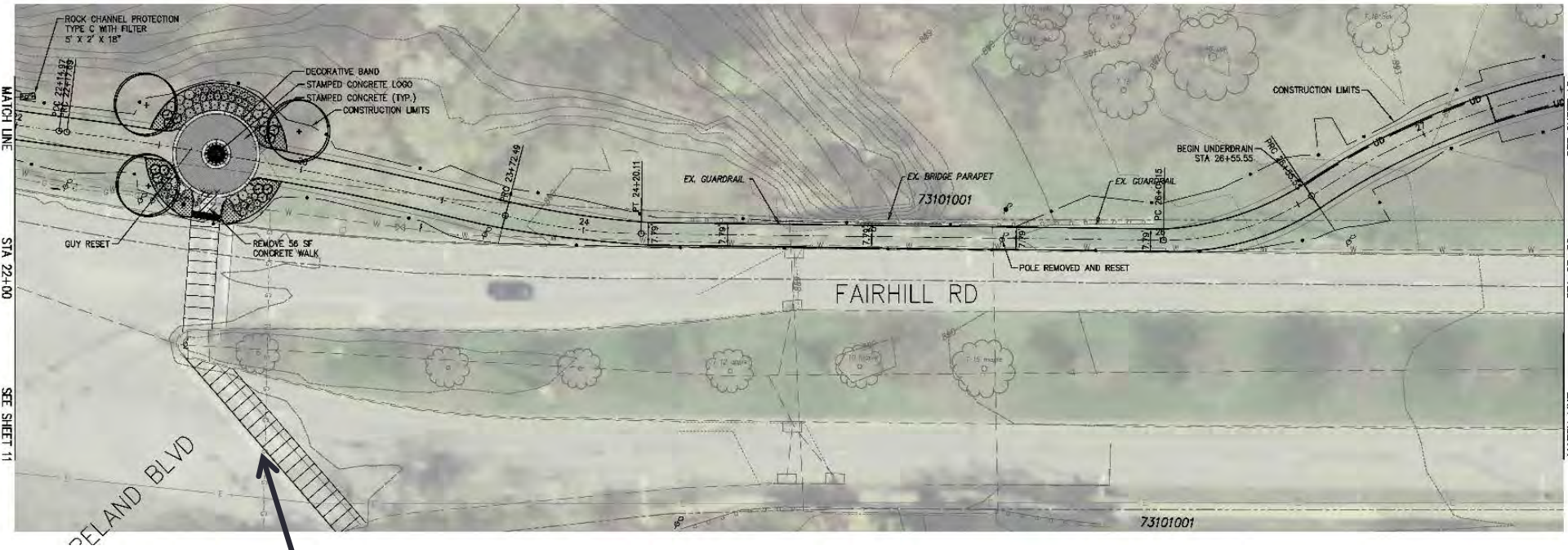
Stage 3 Cost Estimate

Project Element	Estimated Cost
Design/engineering services	$ 80,000
Trail construction	$517,000
Contingency (10%)	$52,000
Construction inspection/post-bid design services	$ 30,000
TOTAL	**$679,000**
Funds available	$680,000

Public Comments: 3 Key Issues

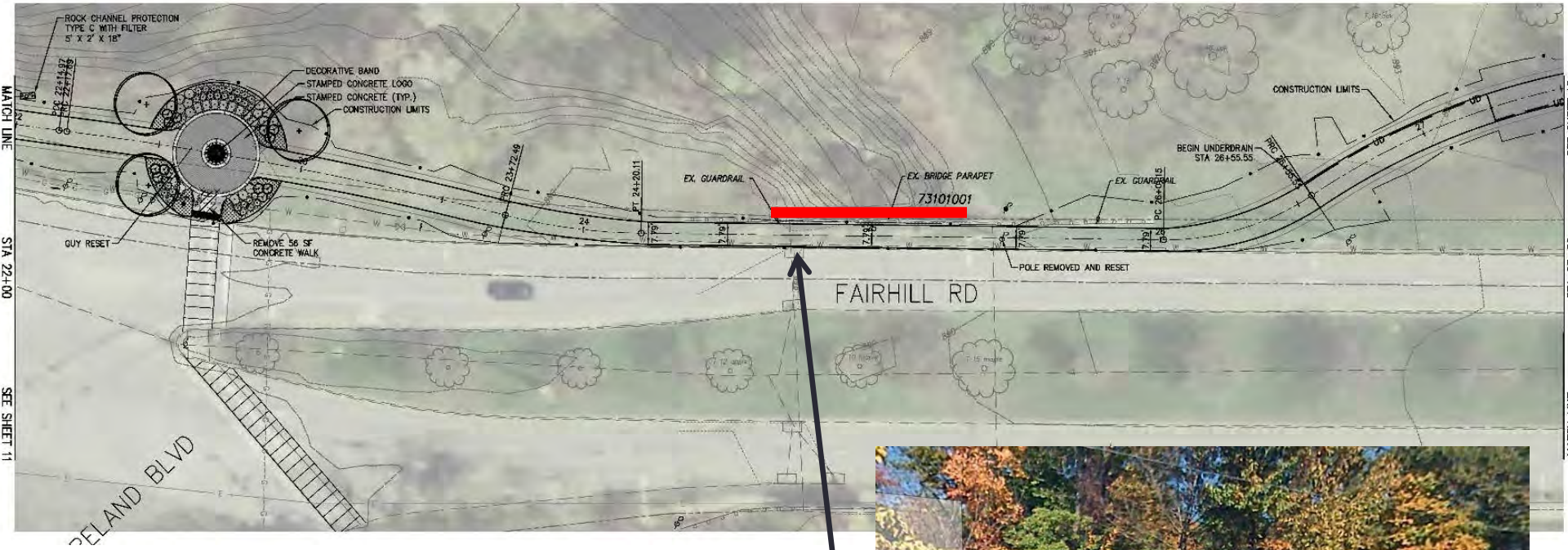
1. Fairhill crosswalk @ North Moreland/South Park
2. Narrowing of trail at bridge
3. Fairhill crosswalk beacon/signal @ East 127

1. Crosswalk @ North Moreland



Crosswalk extended across all lanes of Fairhill; will extend across South Park if ODOT allows

2. Narrow Trail @ bridge



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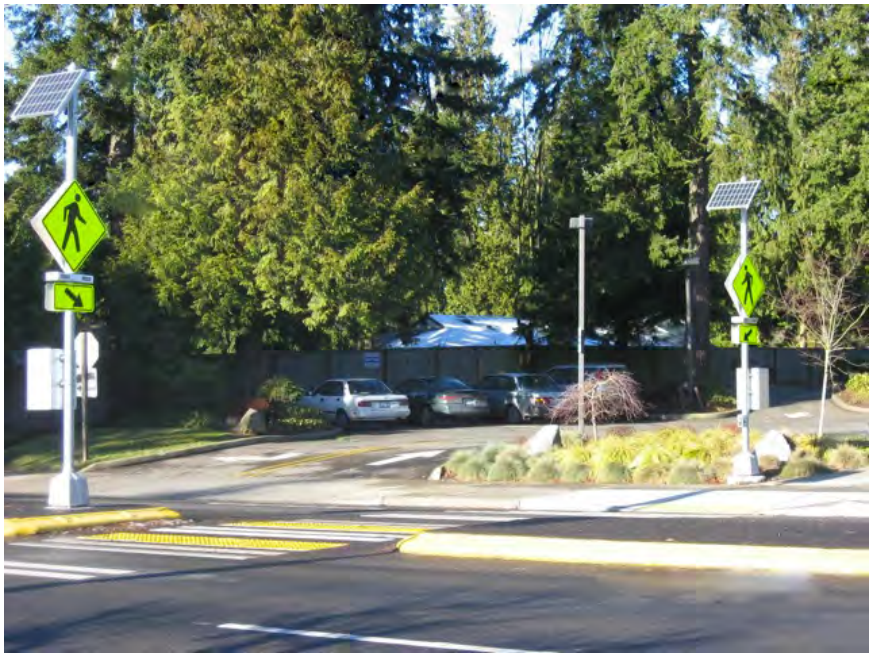
Cautionary Signage TBD

3. Fairhill Crosswalk @ East 127

- Two options considered
  - RRFB – Rectangular Rapid Flash Beacon
  - HAWK – High Intensity Activated Crosswalk Beacon



RRFB

HAWK

3. Fairhill Crosswalk @ East 127

- HAWK re-evaluated after public meetings
  - City of Cleveland engineer does not support
  - Project engineer does not recommend
  - MUTCD does not support

RRFB Flasher Beacon

- RRFB meets safety standards based on existing car and anticipated bike/ped traffic levels
- Alternative for crossing at signalized intersection on Kemper (approximately 600 feet to east)
- Gaps in car traffic with signals at Kemper & at East 124
- Pedestrian island refuge at center

Crosswalk with Full Traffic Signal Located at Kemper Rd

East 127 / Existing Conditions

East 127 / Proposed RRFB Beacon

RRFB Example: Kamm’s Corners

Next Steps

Date	Action
Oct 17	Stage 3 plan submission to ODOT
Nov or Dec	Public meeting #4 (City Council)
Jan 2015	Final plan submission to ODOT
Mar 2015	Project bidding
Summer 2015	Project construction