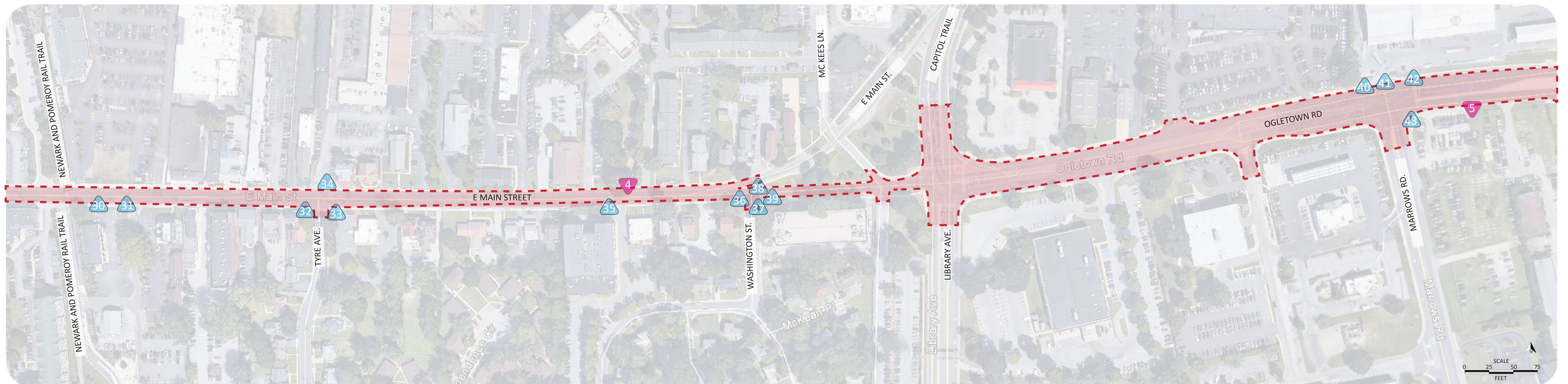


Project Overview & Schedule

- **Project Engineering and Design** - June 2017 - February 2018
- **Construction** - May 2018 - June 2019
- **Funding** - Partnership between DelDOT/City of Newark



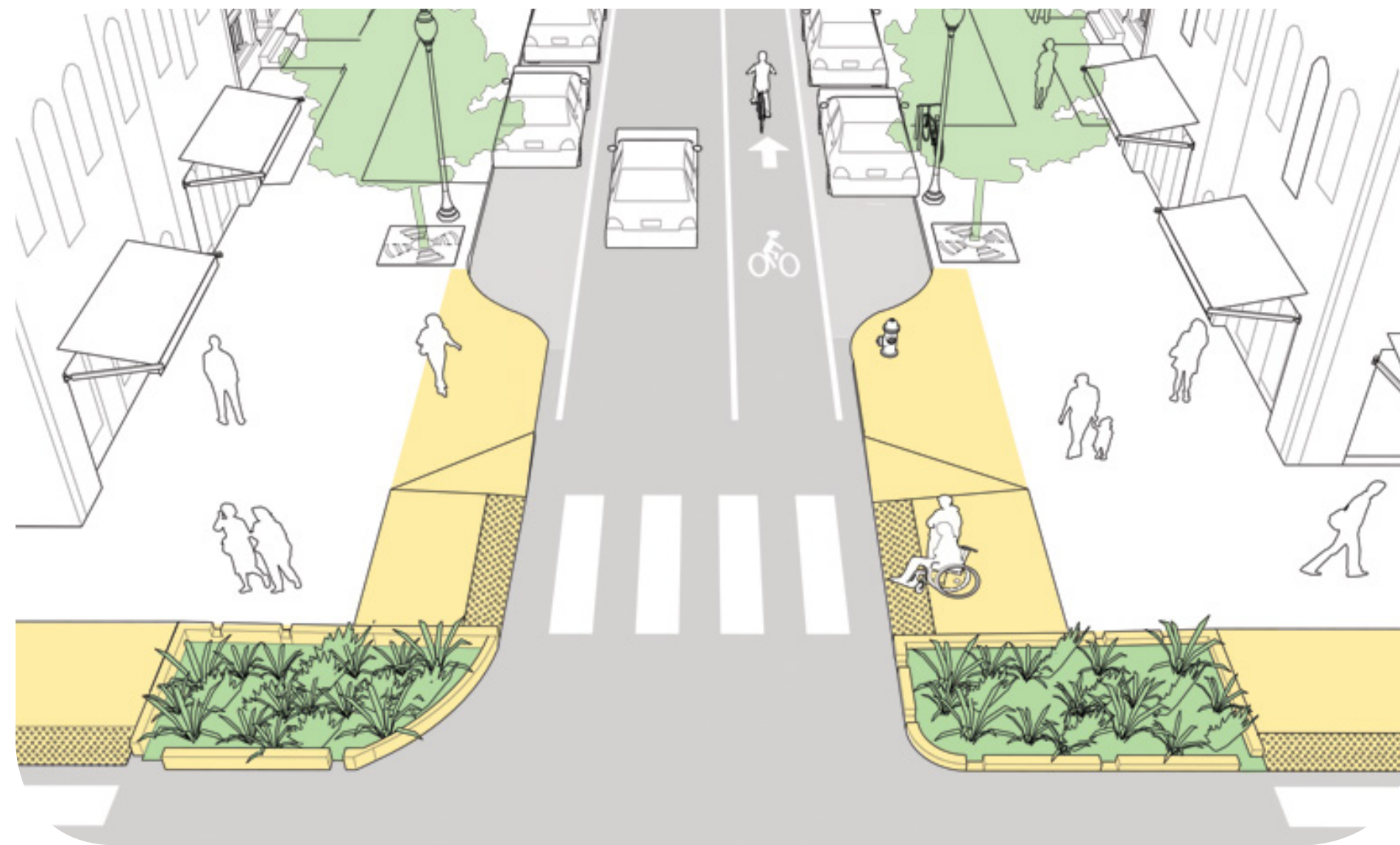
- | | | |
|--|--|--|
|  Curb Ramp |  Bus Stop |  Asphalt Mill & Overlay |
|  Bump-Out |  Accessible Parking | |

**NOTE: Preliminary Design -
For Illustrative Purposes Only*

Main Street Newark Rehabilitation and Pedestrian Improvements
Public Workshop - August 2017



What Are the Benefits & Opportunities to Street Bumpouts?



Bump-Out (NACTO Guidelines)

Pedestrian Safety

- Provide universal accessibility through the addition of compliant ADA curb ramps
- Improved pedestrian safety by shortening crossing distances and improving visibility
- Traffic calming
- Increased quantity of crossings

Aesthetics

- Reinforce the identity of Newark and create a sense of place
- Public art to showcase local artists or the unique aspects of Newark
- Softened architectural/infrastructure through landscaping



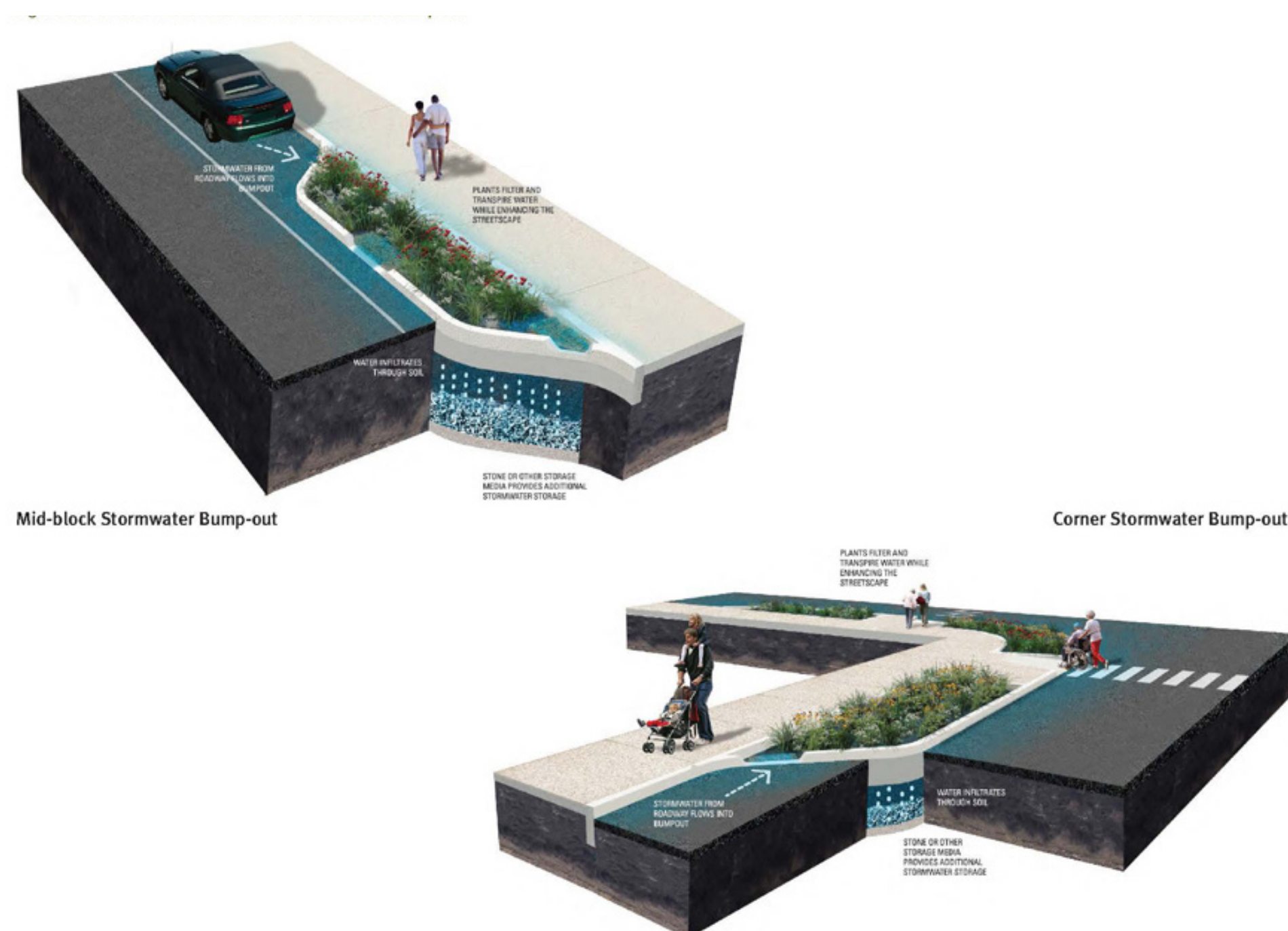
Bump-Out Parklet & Seating Area

Economic Development

- Encourage increased pedestrian traffic downtown
- Provide additional amenities downtown to increase business patronage
- Increase shade canopy to increase comfort for business patrons



Stormwater Street Tree



Stormwater Bump-Out Example (PWD Green Streets Manual)

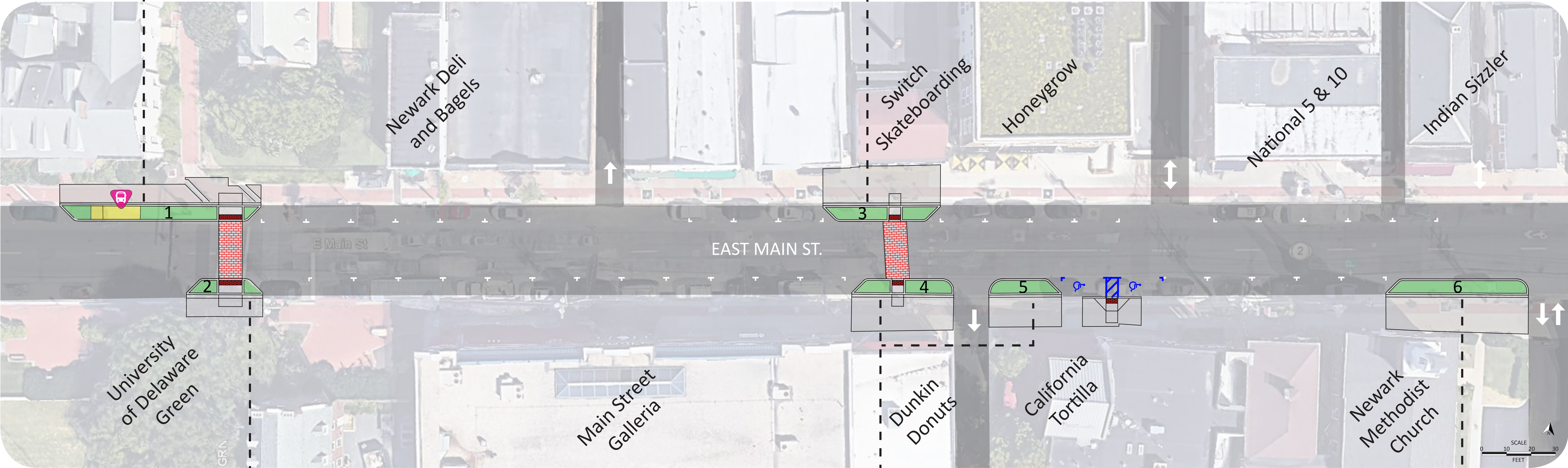
Green Technologies

- Increased opportunities for stormwater management
- Landscaped green infrastructure to provide opportunities to reduce stormwater runoff and improve water quality
- Softened architectural/infrastructure through landscaping

Images Sourced from Philadelphia Water Department and NACTO

Pedestrian Bump-out Concept Development

Station #1 Bump-Out Key Plan (1 of 3)



*NOTE: Preliminary Design -
For Illustrative Purposes Only

Pedestrian Bump-out Concept Development

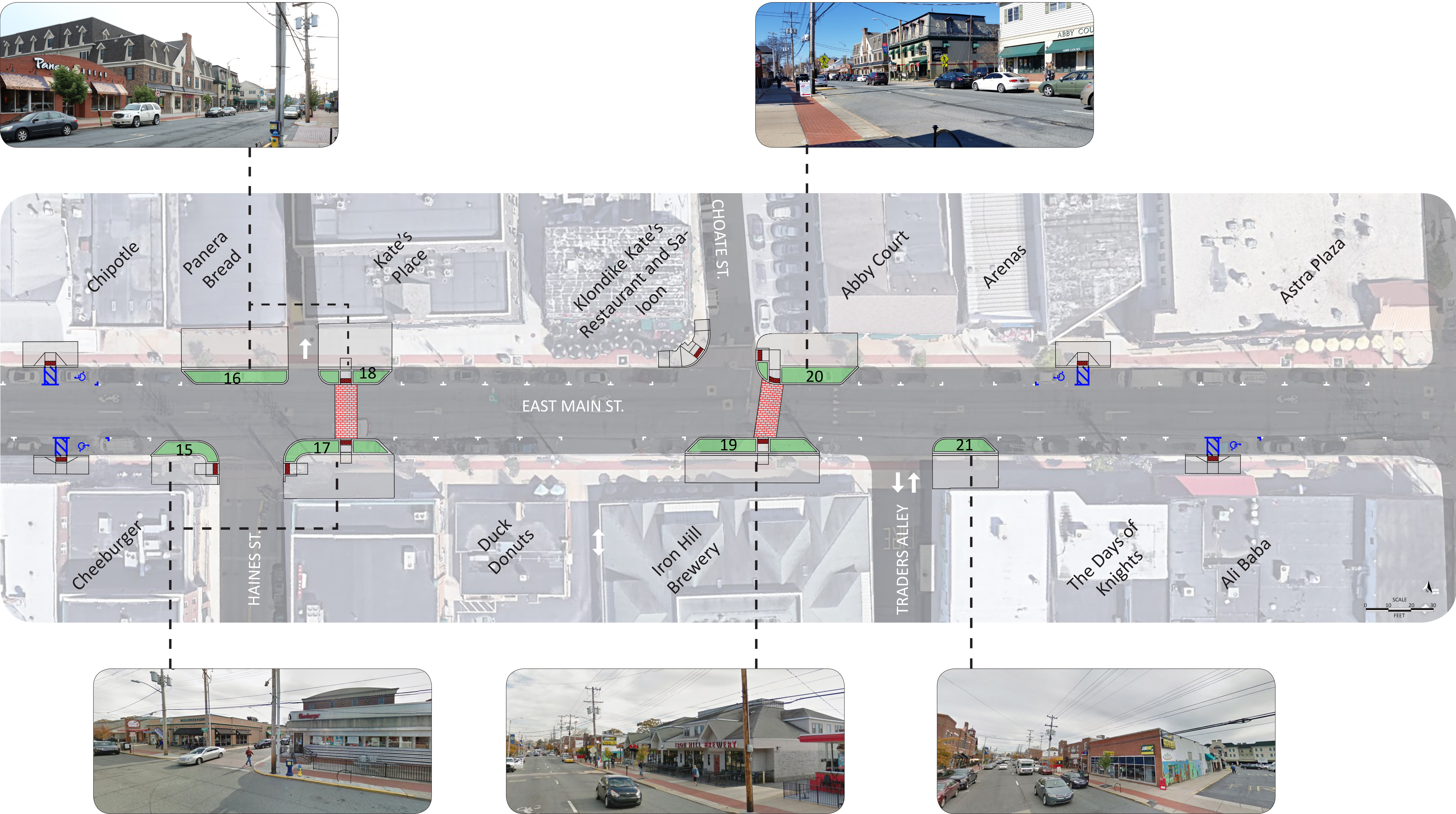
Station #2 Bump-Out Key Plan (2 of 3)



**NOTE: Preliminary Design -
For Illustrative Purposes Only*

Pedestrian Bump-out Concept Development

Station #3 Bump-Out Key Plan (3 of 3)























































































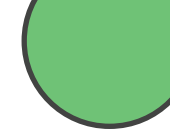
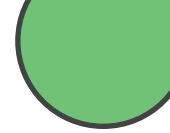





































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Pedestrian Bump-out Concept Development

Bump-Out Treatment Options

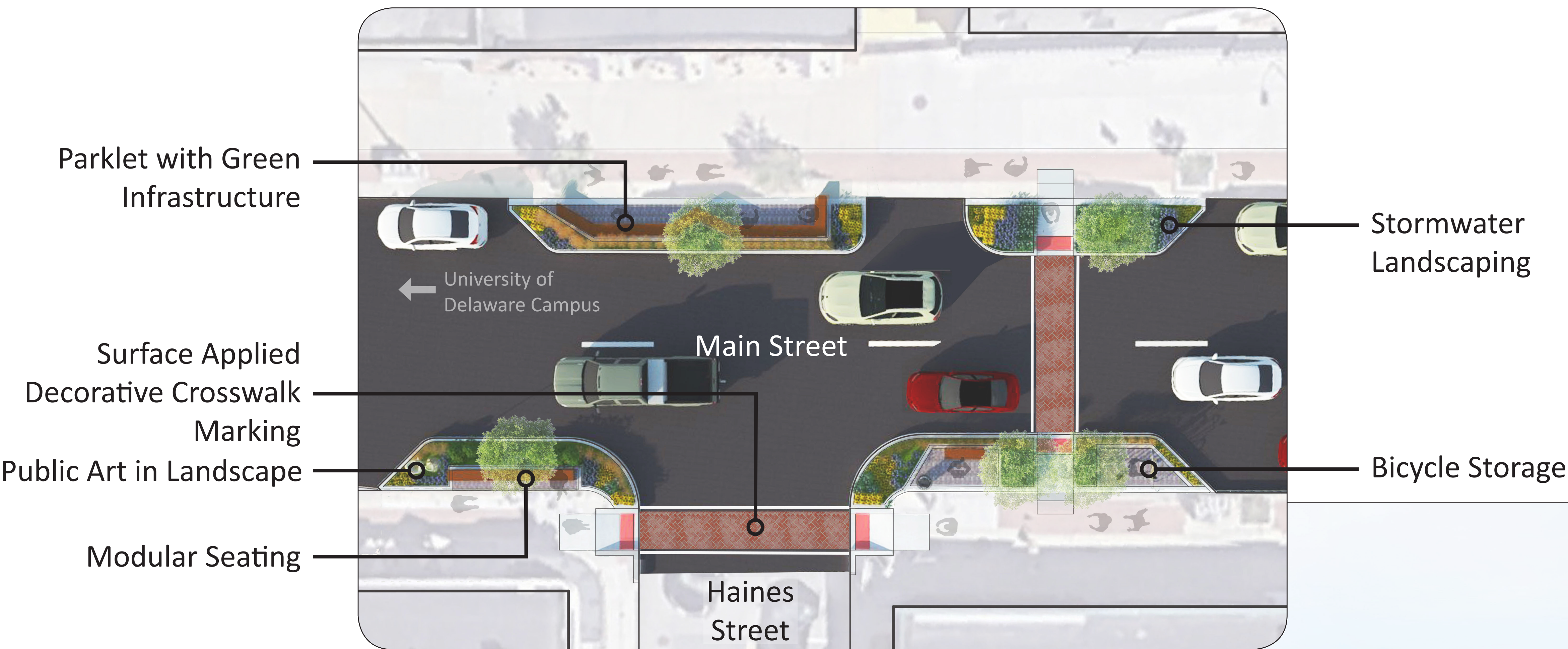
**NOTE: Preliminary Design -
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Cost	Bump-Out Treatment	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
																						
\$	 Standard Landscaping Areas (w/ Curb)																					
\$-\$	 Landscape, Street Trees, & Seating																					
\$\$	 Green Infrastructure Landscape																					
\$\$-\$\$\$	 Hardscape w/ Traditional Seating																					
\$\$\$	 Environmental Public Art																					
\$\$\$-\$\$\$\$	 Parklet & Integrated Seating																					
\$\$\$\$	 Transit Waiting Area (w/ shelter)																					

Pedestrian Bump-out Concept Development

Sample Plan & Perspective at Main Street and Haines

Sample Plan



Existing Conditions



Surface Applied Decorative Crosswalk Marking

Modular Seating

Landscape Buffer Planting



Perspective

Surface Applied Decorative Crosswalk Marking

**NOTE: Preliminary Design - For Illustrative Purposes Only*

On-Street Parking Overview

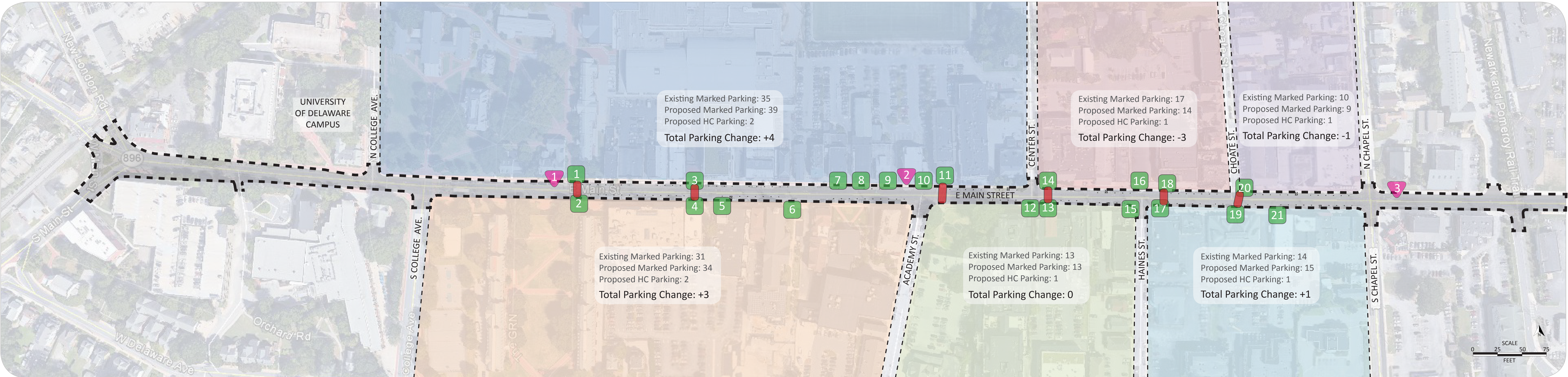
New Parking Layout with Accessible Spots Required

Street	Side of Street	Start	Stop	Ex. Marked Parking Spaces	Ex. Marked/Signed Accessible Parking Spaces	Required Number of Accessible Parkings Spaces	Proposed Marked Parking Spaces with Current Bump-Out Design	Change in Number of Parking Spaces with Design	Marked Standard Parking Spaces	Marked/Signed Accessible Parking Spaces
E. Main St.	South	Chapel St	Haines St	14	0	1	15	1	14	1
E. Main St.	South	Haines St	Academy St	13	0	1	13	0	12	1
E. Main St.	South	Academy St	S. College Ave	31	0	2	34	3	32	2
E. Main St.	North	Chapel St	Choate St	10	0	1	9	-1	8	1
E. Main St.	North	Choate St	Center St	17	0	1	14	-3	13	1
E. Main St.	North	Center St	N College Ave	35	0	2	39	4	37	2
Total				120	0	8	124	4	116	8

Street	Side of Street	Start	Stop	Ex. Parking Spots in Conflict
E. Main St.	South	Library Ave	Chapel St	0
E. Main St.	South	Chapel St	Haines St	1
E. Main St.	South	Haines St	Academy St	1
E. Main St.	South	Academy St	S. College Ave	0
E. Main St.	South	S. College Ave	Orchard Rd	0
W. Main St.	South	Orchard Rd	Elkton Rd	0
E. Main St.	North	Capitol Tr	Chapel St	0
E. Main St.	North	Chapel St	Choate St	0
E. Main St.	North	Choate St	Center St	3
E. Main St.	North	Center St	N College Ave	0
W. Main St.	North	N College Ave	New London Rd	0
Total				5

On-Street Parking Summary

- Total Existing Parking:
120 spaces (No Accessible & 5 sub-standard)
- Total New Parking:
124 spaces (8 Accessible Parking)



**NOTE: Preliminary Design -
For Illustrative Purposes Only*

Thank you for your attendance. Before you leave, please be sure that you:

- Provide your desired information on the sign-in sheet
- Provide any feedback on the meeting comment forms

For additional project information or updates please visit the project website at:

www.deldot.gov/information/projects/