CONCEPT ALTERNATIVE 2

Lemoyne Bottleneck Improvements

Remove

Existing

Crossing

New Traff

Signal

Three Lanes with Shared Use Paths

Alternative 2 Facilities

- One lane eastbound and two lanes westbound
- 8' Shared Use Path on both sides with landscaped areas
- Shoulders on both sides (3' typical)
- One eastbound left turn lane and one right turn lane at Front Street intersection

Note: This illustration is a general representation and may vary due to changing conditions and constraints within the project boundaries

Section View at Reardon Steel (Facing East) 11' Shared Use Landscaping Westbound Eastbound Westbound Area (Grass) Travel Lane Travel Lane Travel Lane Landscaping Area (Grass or Area (Grass) Shoulder

MOTOR VEHICLE

- Widen travel lanes through the Bottleneck to 11' minimum
- Add shoulders throughout the project limits at 3' minimum which removes inlets from wheel paths
- Single eastbound lane eliminates weaving/lane changing through the curve
- Driveway safety improvements to reduce conflicts near the Market Street and 3rd Street Intersection
- Increased distance from travel lanes to fixed objects (e.g. railroad abutments, utility poles, etc.)
- Travel lanes better accommodate trucks through the curve
- Improved sight distance for drivers

TRAFFIC OPERATIONS

- Channelizing island improves navigation through Market & Front Street intersection
- New traffic signal at Market & Front Street Intersection with improved signal timing
- Improved signal timing at Market & 3rd Street Intersection
- Maintains acceptable traffic Level of Service

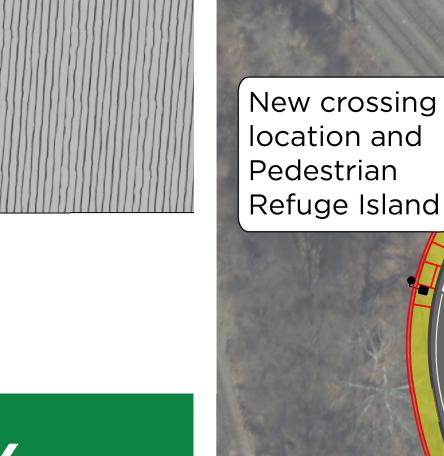
MULTIMODAL FACILITIES

- Continuous ADA compliant shared use paths and ramps on both sides of the roadway for pedestrians and bicyclists
- Shared use path on both sides provides continuous vertical separation for bikes from vehicle lanes reducing bicycle level of stress
- Bike and pedestrian connection to future Market Street utility bridge

EMERGENCY

• Emergency Vehicle Preemption at both signalized intersection provides primary EMS access

- Painted median gore provides secondary EMS access near the Market & Front Street intersection
- Single eastbound lane provides easier access in/out of PennState Health Life Lion, LLC



Continuous Westbound 8 Shared Use

> Emergency Pull-Off Area

Single face concrete barrier for slope cut-back

> Slope laid back to improve westbound sight distance

Central railroad bridge

abutments and bridge

by Norfolk Southern

Legend

Sidewalk

Shared Use Path

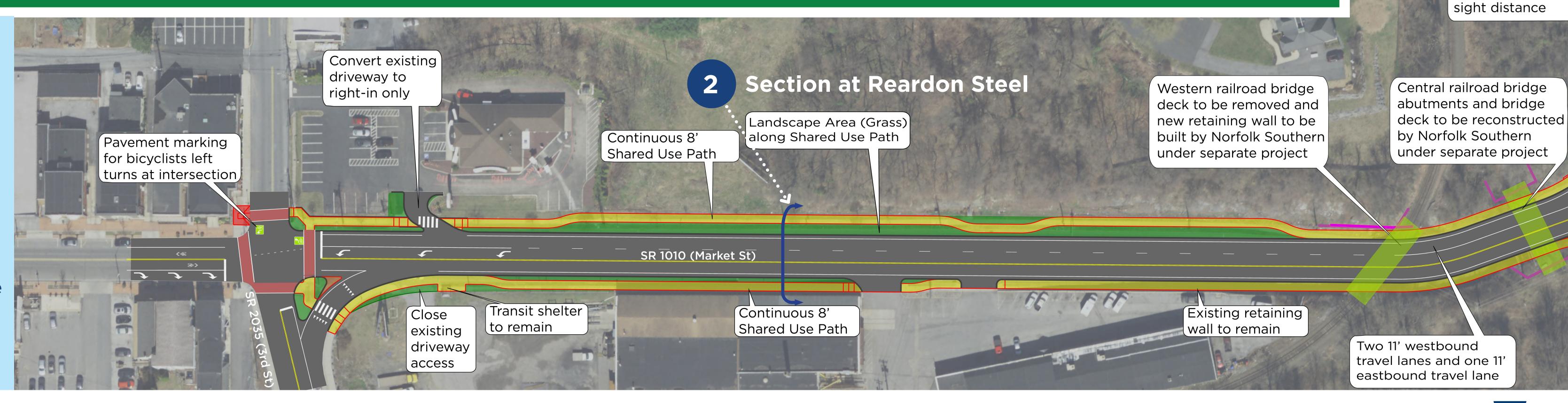
Landscape Area

Hardscaping Area

Railroad Bridge

Proposed Railroad Bridge Abutment/Walls

Proposed Market Street Bridge







Concrete driveway

aprons with

depressed curb

Bicycle and pedestrian

Continuous 8'

Shared Use Path

Eastbound

connection to future

Market Street utility

bridge