

DESIGN CHARRETTE

JANUARY 4 - 6, 2017



- 01 WHAT we are doing for you
- 02 your ASSESSMENT of existing facilities
- 03 your DESIRES for future improvements
- 04 your OPINION of design options
- 05 moving FORWARD





- **Grandview Ave.**
 - 2.2 miles
 - US 61 to Franklin St.



01 inventory & ANALYSIS

02 stakeholder INPUT

03 preliminary DESIGN & review

04 refine & final master REPORT



Complete Streets

aim to improve quality of life and promote healthy living for users by creating streets that are both great public spaces and sustainable transportation networks.

Multimodal



Integrate:

- Pedestrians
- People with Disabilities
- Bicyclists
- Transit Users
- Motor Vehicle Drivers

Goal:

to ensure that streets are shared by all users and not dominated by cars

Green



Integrate:

- Street Trees
- Rain Gardens
- Bio-Swales
- Paving Materials
- Permeable Surfaces

Goal:

promote an environmentally sensitive, sustainable use of the public right-of-way

Smart



Integrate:

- Intelligent Signals
- Smart Meters
- Electric Vehicle Sharing
- Car and Bicycle Sharing
- Way-Finding
- Social Networks

Goal:

greater system efficiencies and user convenience

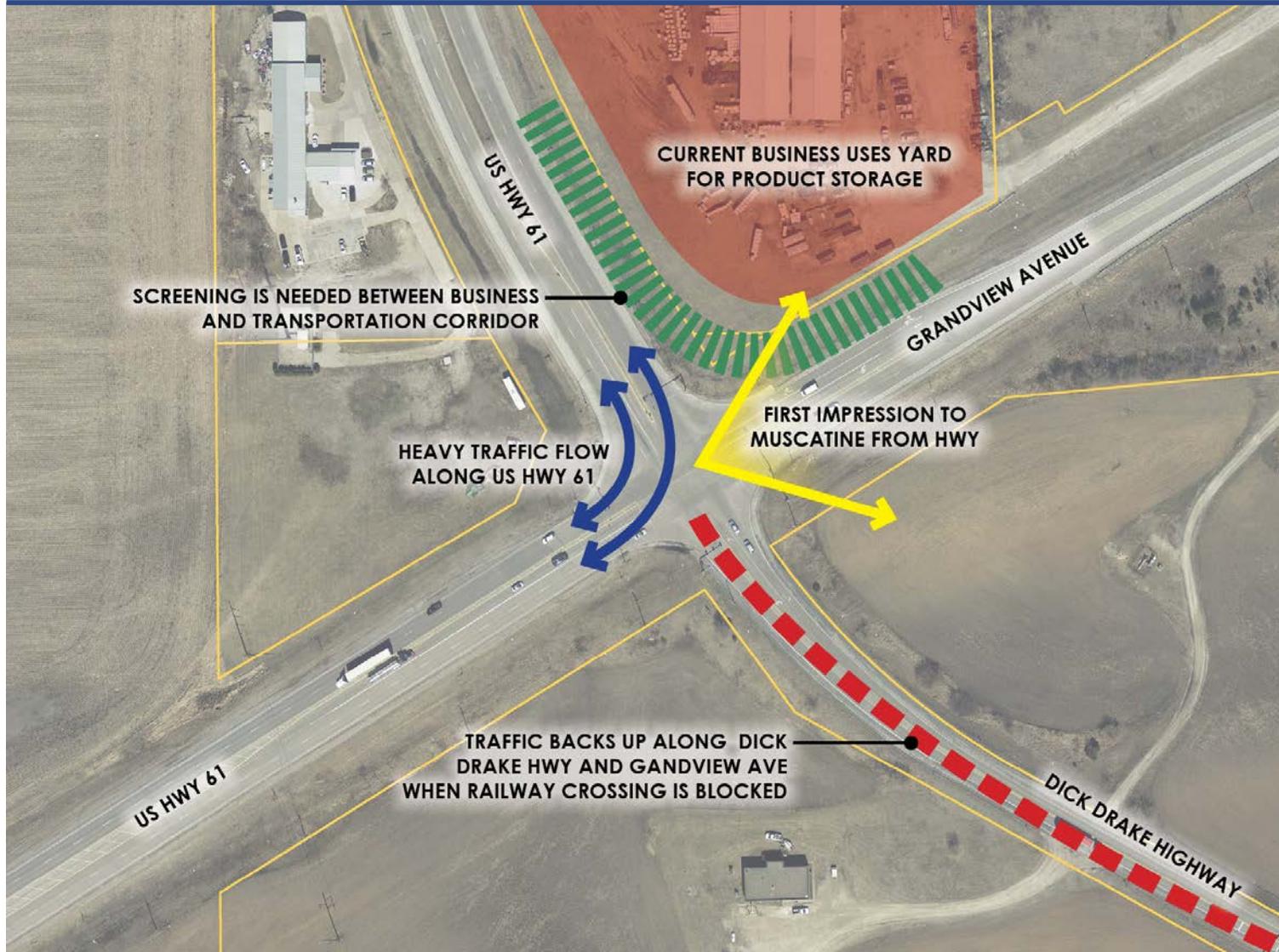


Key Grandview Avenue Locations



- 01 US Hwy 61 Intersection**
- 02 Houser & Sampson Street Intersection**
- 03 Brier's Ditch**
- 04 Warren & Oregon Street Intersection**
- 05 Block between Bond & Franklin Streets**

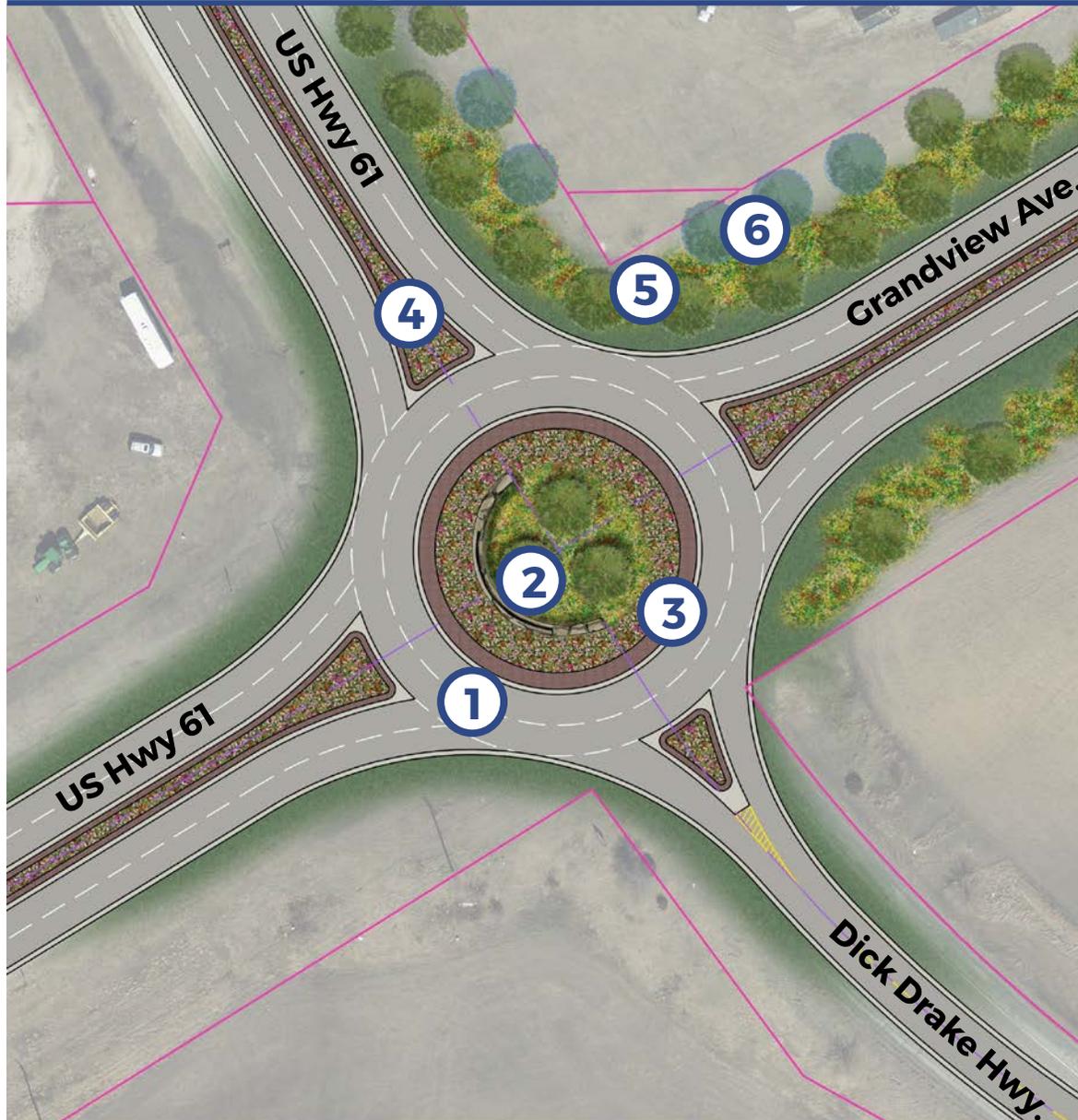
Site 01: US 61 / Dick Drake Hwy. Intersection



Existing Conditions & Considerations:

- Very busy intersection
- No community gateway elements
- Lots of truck traffic
- Primarily a vehicular intersection with no pedestrian traffic

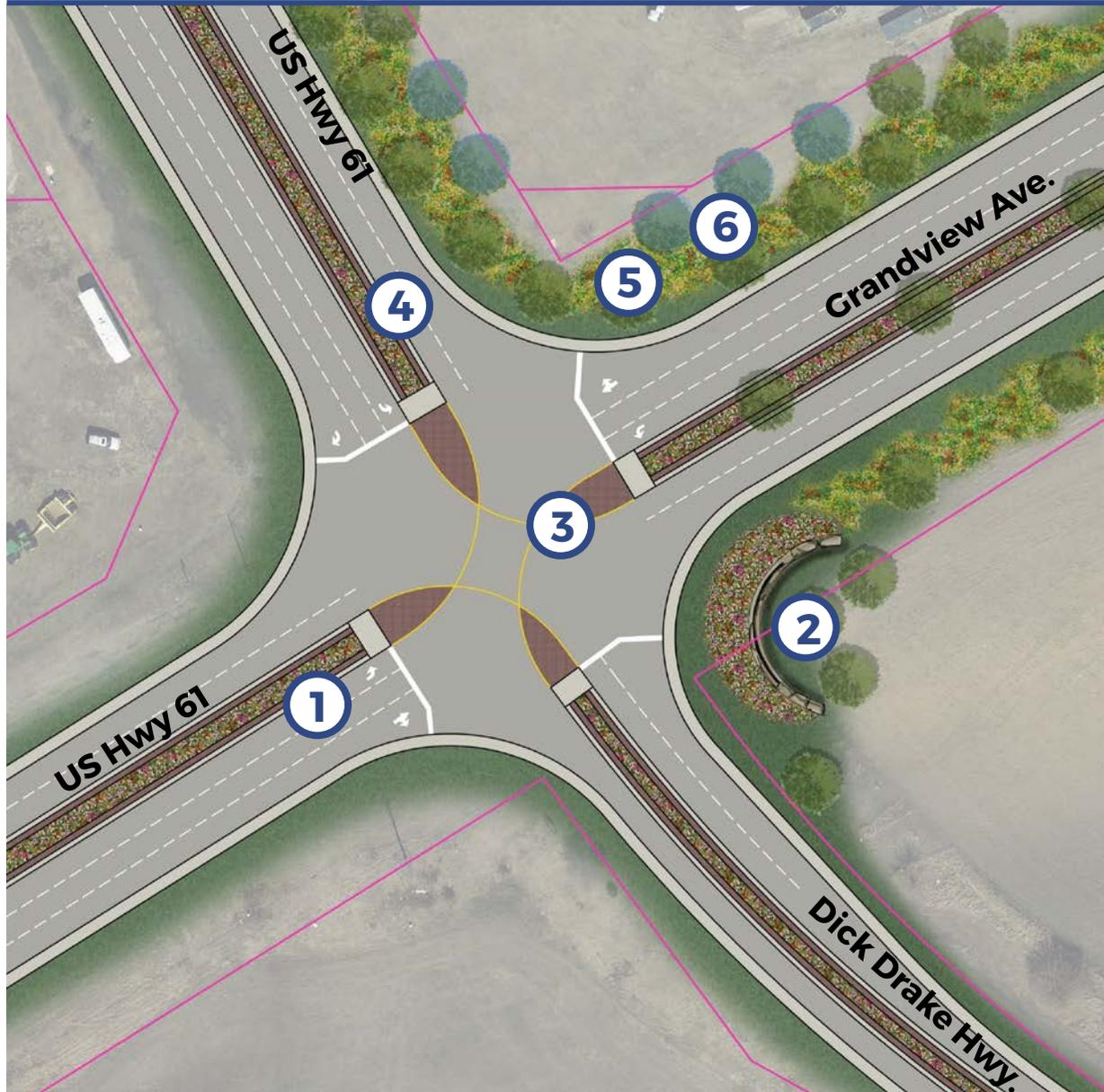
Site 01: US 61 / Dick Drake Hwy. Intersection



Option 'A' Design Components:

1. Two-lane round-a-bout
2. Muscatine monument signage
3. Paver island apron
4. Landscaped median with paver splash pad (typ.)
5. Storm water swales with native plants and trees (typ.)
6. Evergreen screening (typ.)

Site 01: US 61 / Dick Drake Hwy. Intersection



Option 'B' Design Components:

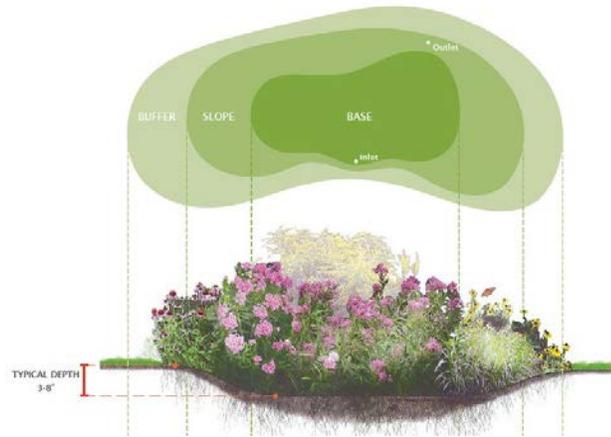
1. Designated left turn lane (typ.)
2. Muscatine monument signage
3. Intersection specialty paving
4. Landscaped median with paver splash pad (typ.)
5. Storm water swales with native plants and trees (typ.)
6. Evergreen screening (typ.)



Site 01: US 61 / Dick Drake Hwy. Intersection

Design Precedents:

Bioswale



Round-a-bout

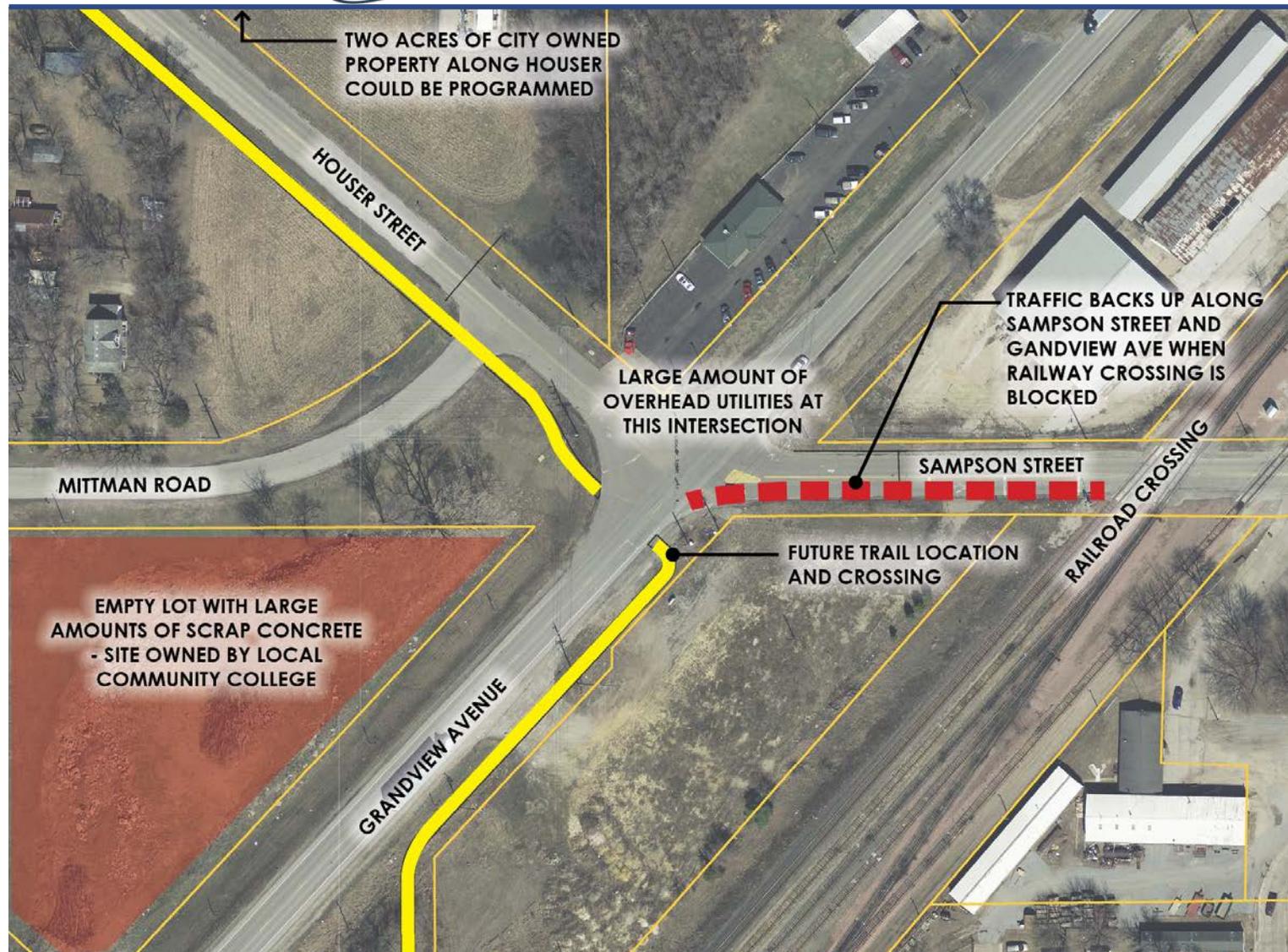


Applicable Areas:



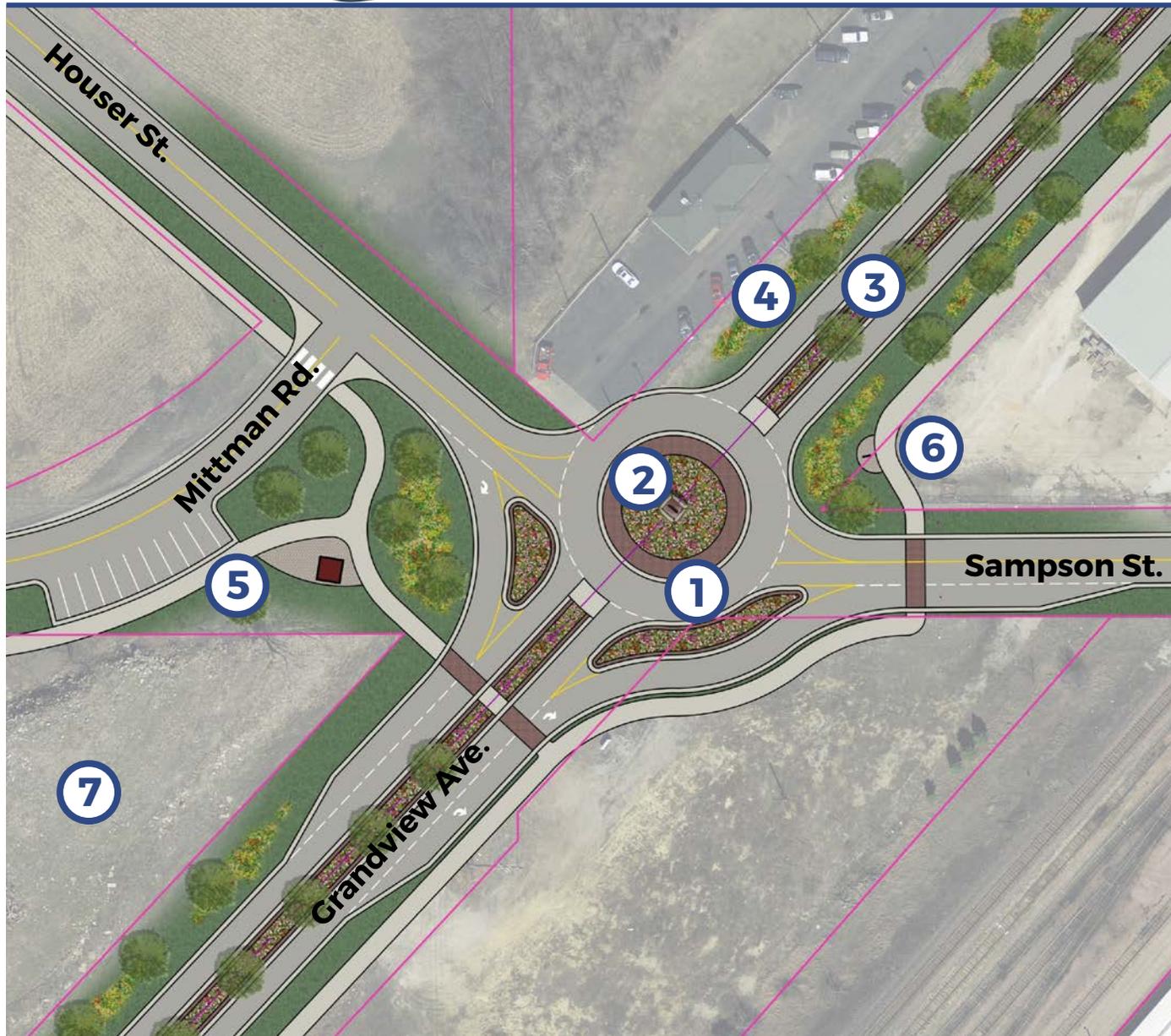


Site 02: Houser St. / Sampson St. Intersection



Existing Conditions & Considerations:

- Could act as a smaller scale community gateway
- Atypical intersection
- Hazardous conditions for pedestrians
- New trail crossing



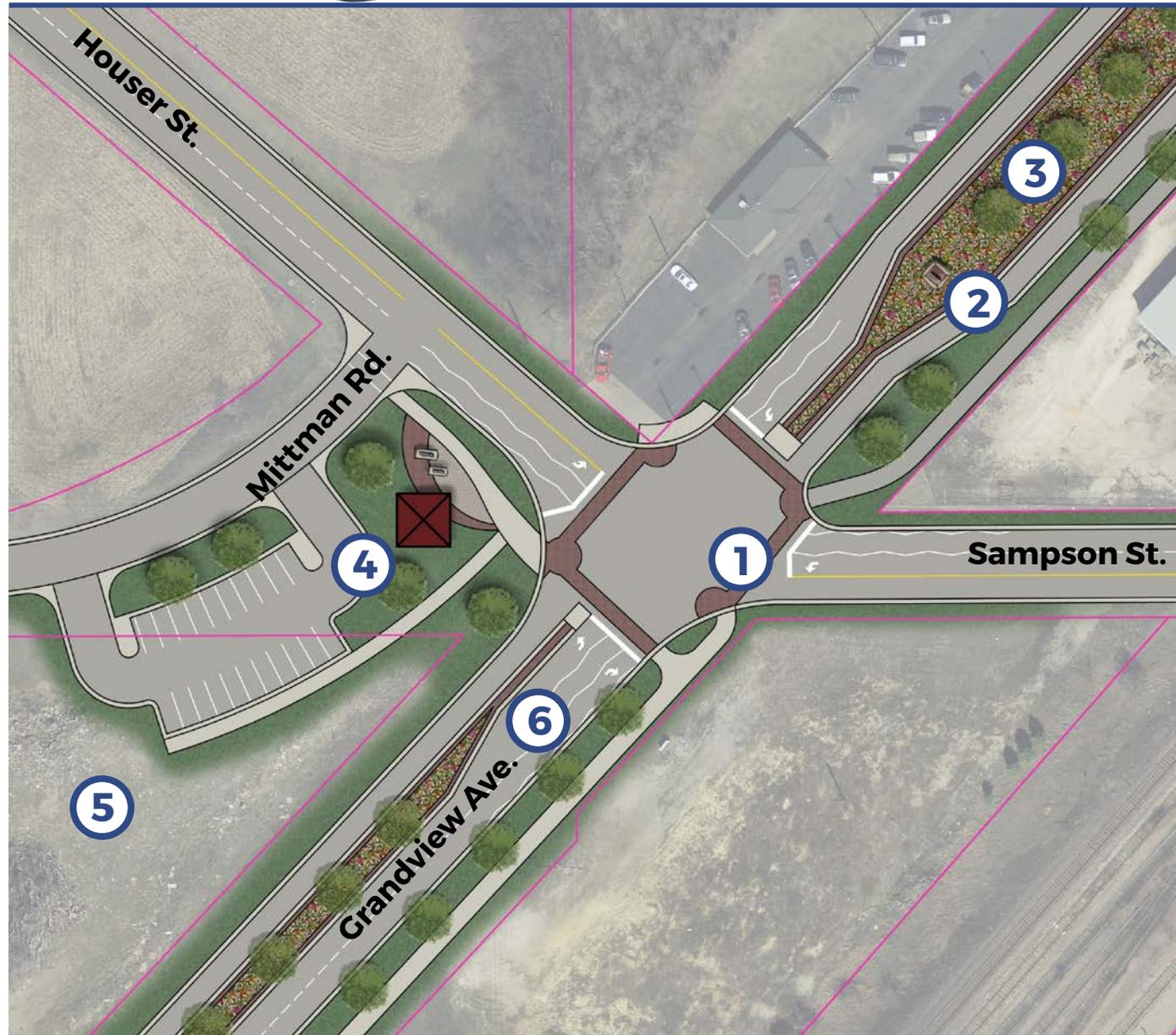
Option 'A' Design

Components:

1. Single-lane round-a-bout
2. Muscatine monument signage
3. Landscaped median with paver splash pad (typ.)
4. Storm water swales with native plants and trees (typ.)
5. Trailhead with shelter
6. Trail system signage
7. Bike terrain park



Site 02: Houser St. / Sampson St. Intersection



Option 'B' Design

Components:

1. Specialty paving crosswalks
2. Muscatine monument signage
3. Bioswale median with paver splash pad (typ.)
4. Trailhead with shelter
5. Neighborhood park
6. Zig-zag pavement markings



Site 02: Houser St. / Sampson St. Intersection

Design Precedents:

Round-a-bout



Zig-zag Pavement Markings



Art Shelter



Bike Terrain Park

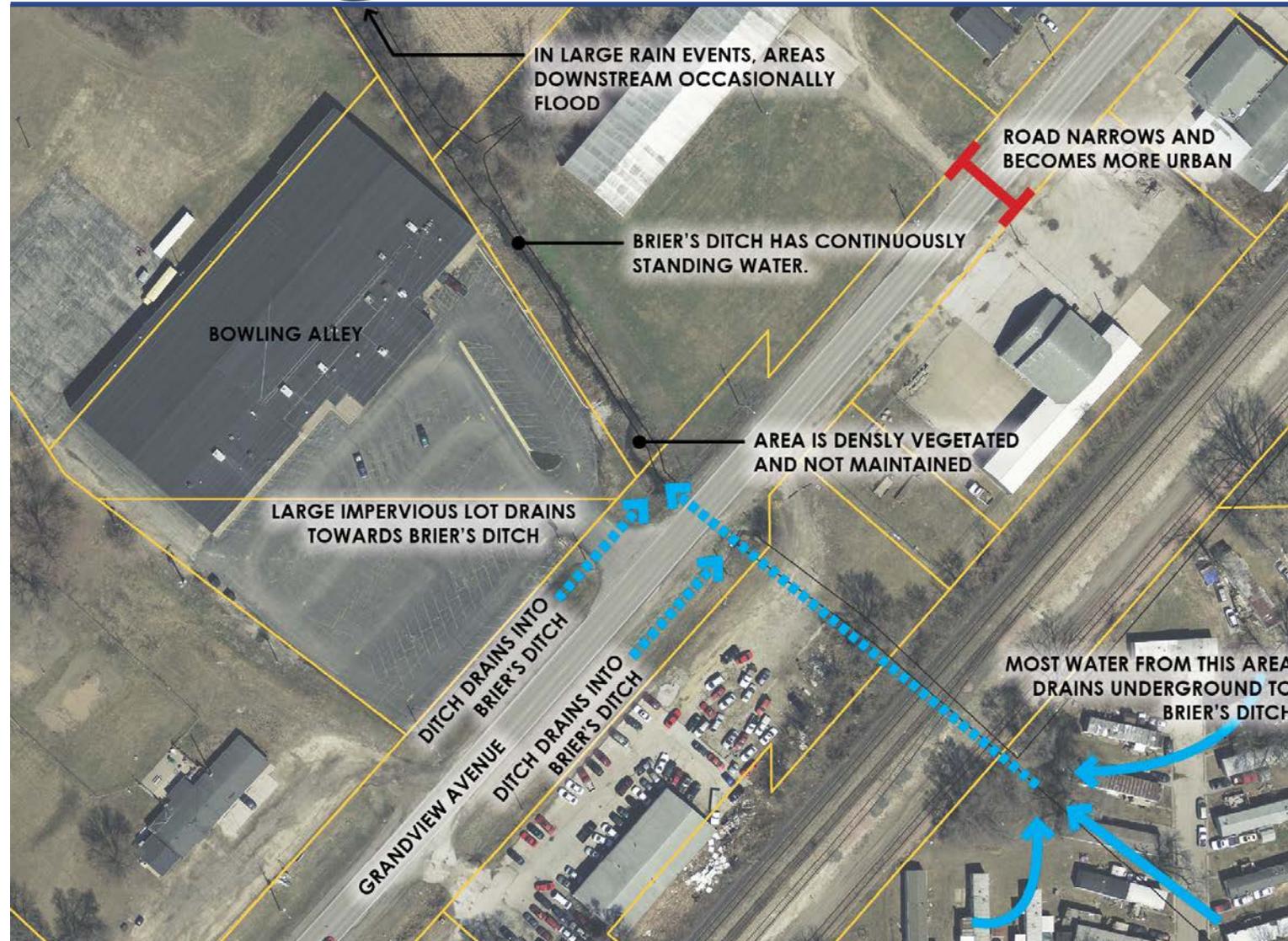


Applicable Areas:



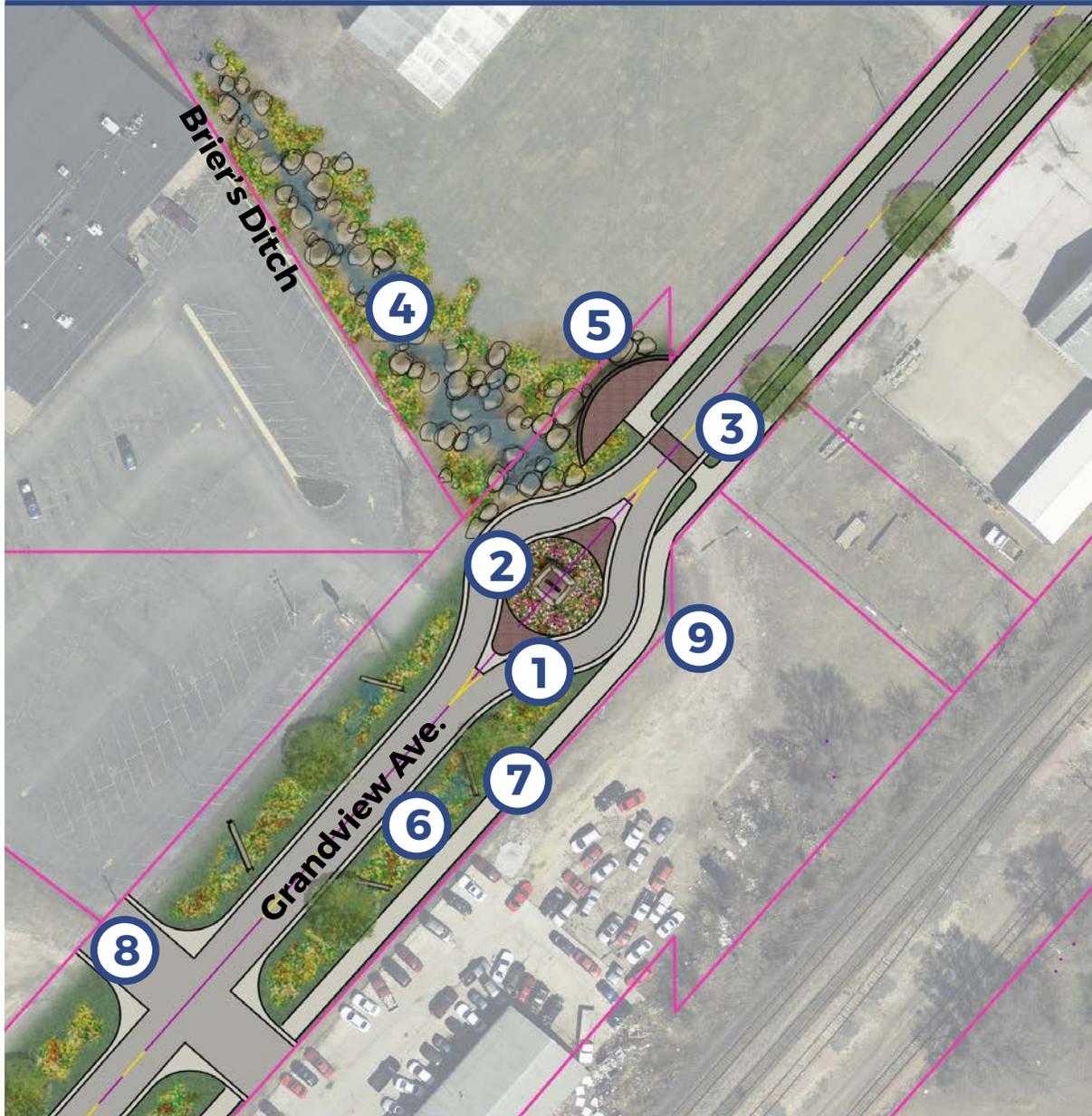


Site 03: Brier's Ditch



Existing Conditions & Considerations:

- Major drainageway for corridor
- No pedestrian routes



Option 'A' Design Components:

1. Single lane "eye-brow"
2. Muscatine monument signage
3. Specialty paving crosswalk
4. Add rock outcroppings and river rock bottom with native plants
5. Brier's overlook with trail head
6. Storm water swales with native plants, trees, and stone (typ.)
7. Continuation of trail
8. Consolidate business driveways
9. Extend storm sewer under road



Option 'B' Design Components:

1. Bioswale median with landscaping and stone elements
2. Muscatine monument signage
3. Add rock outcroppings and river rock bottom with native plants
4. Extend storm sewer under road
5. Continuation of trail
6. Consolidate business driveways
7. Offset roadway for trail buffer



Design Precedents:

Boulder Stream



Bioswale Median

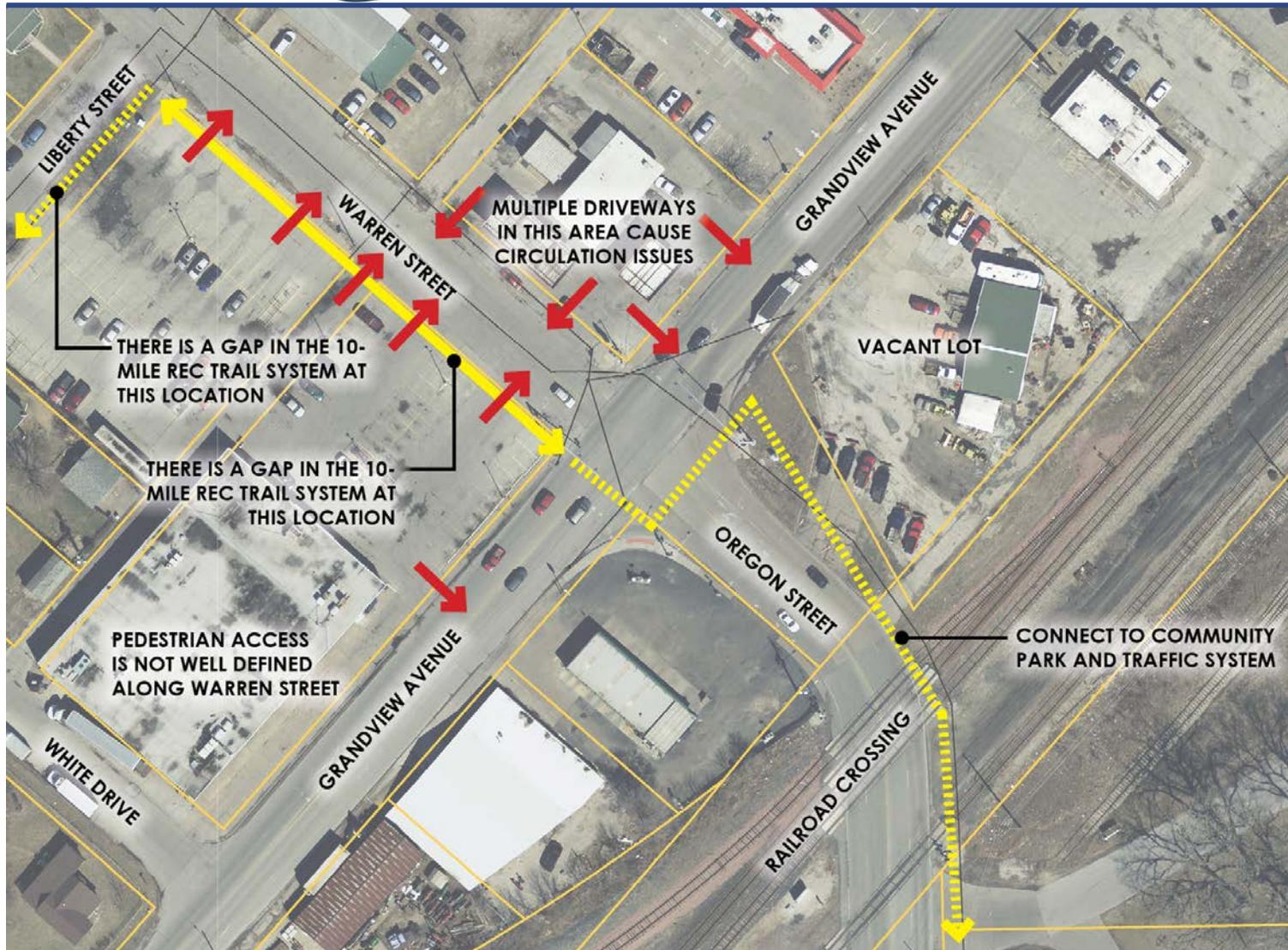


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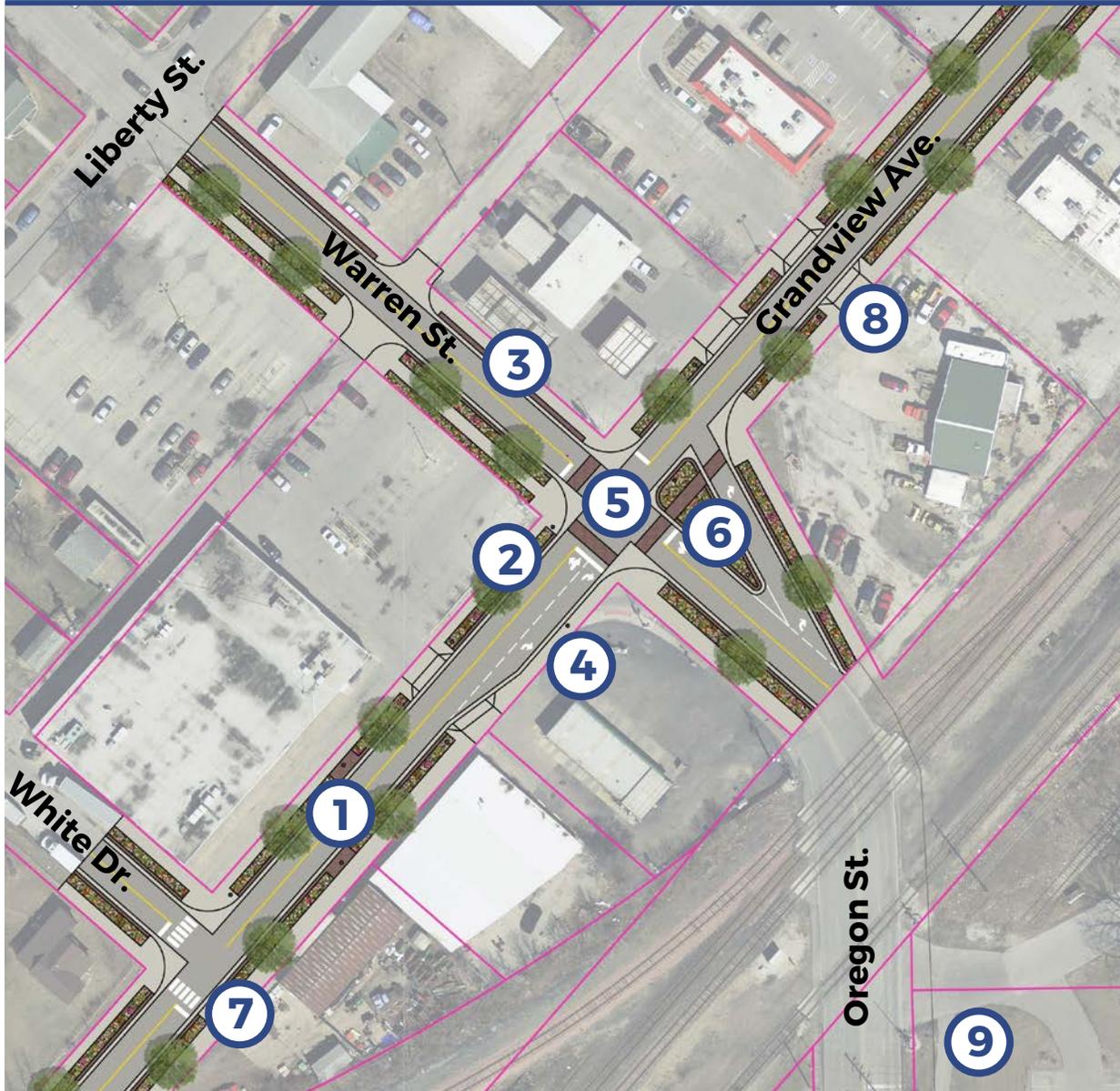


Site 04: Warren St. / Oregon St. Intersection



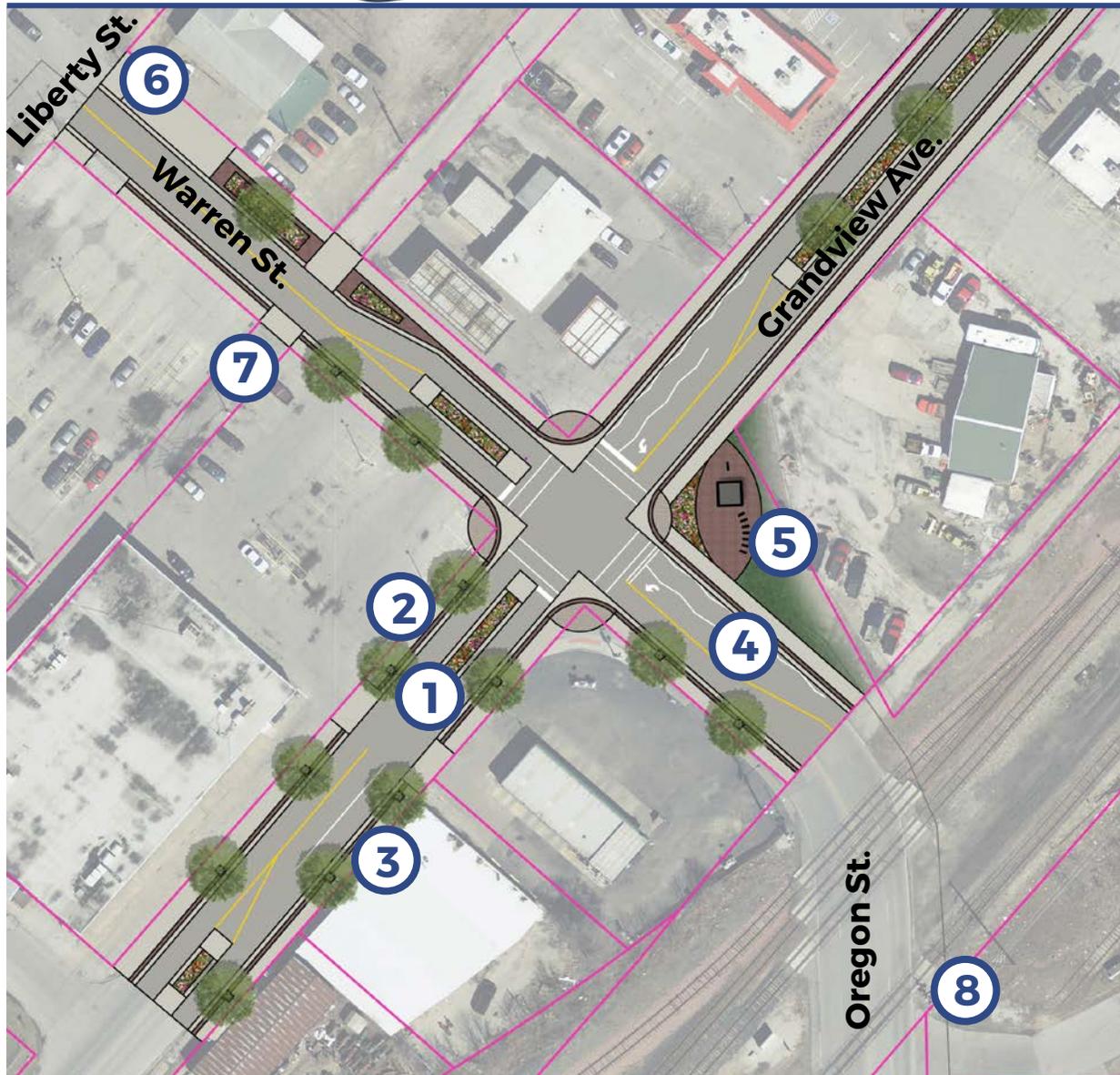
Existing Conditions & Considerations:

- Narrow sidewalks and fast moving traffic
- No green space or shade
- Hazardous pedestrian crossings



Option 'A' Design Components:

1. Two-lane road
2. Storm water planter (typ.)
3. Pervious paving system and splash pad (typ.)
4. Decorative street lighting (typ.)
5. Specialty paving crosswalks (typ.)
6. Right turn only and landscape median
7. Trail continuation
8. Relocate business driveway
9. Trail head in park



Option 'B' Design Components:

1. Landscape median (typ.)
2. Tree grate with pervious paving (typ.)
3. Decorative street lighting (typ.)
4. Zig-zag pavement markings (typ.)
5. Trail head with signage
6. Trail continuation
7. Relocate business driveway
8. Continue trail to park



Site 04: Warren St. / Oregon St. Intersection

Design Precedents:

Storm Water Planter



Storm Water Tree Trench

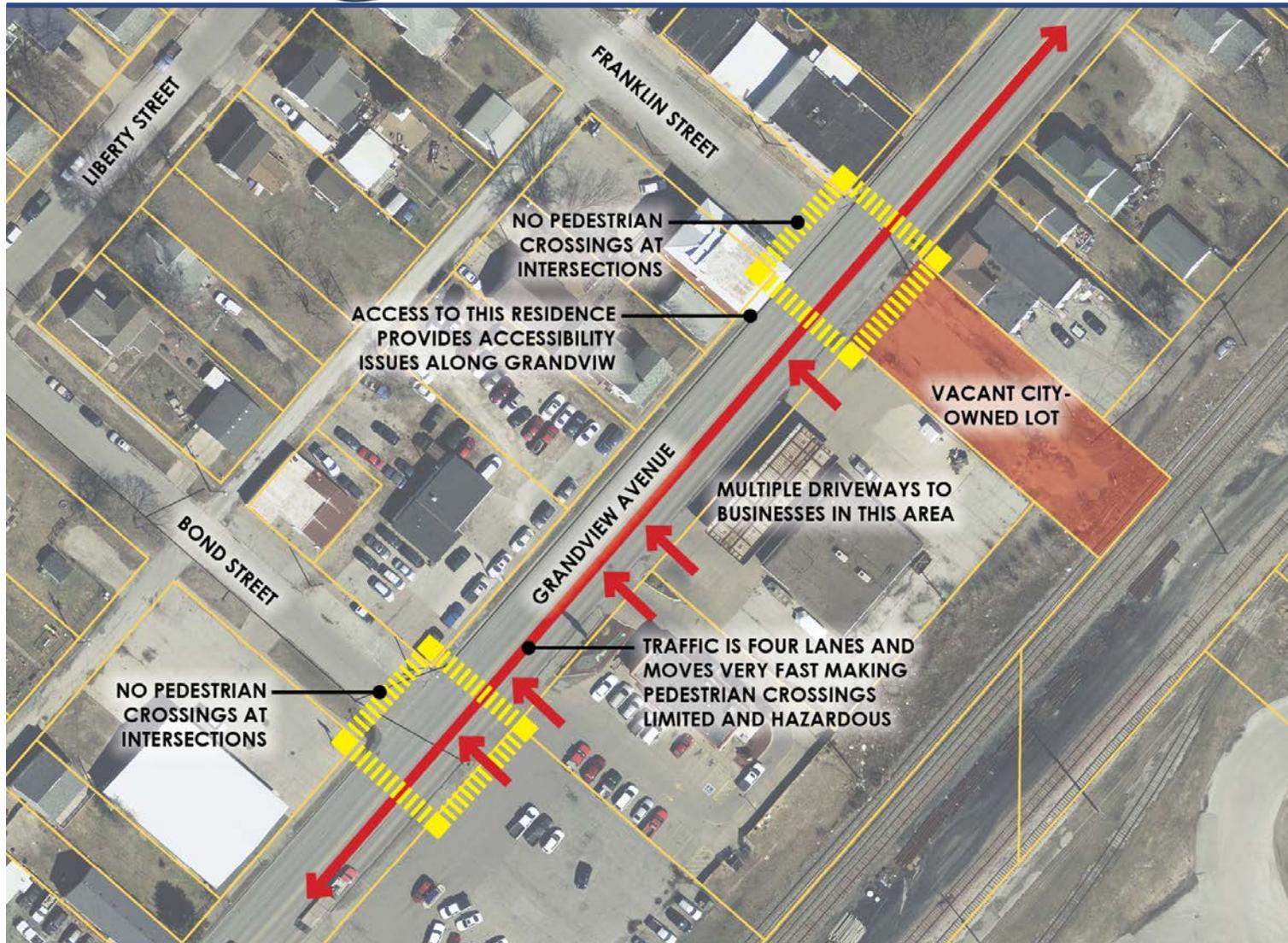


Applicable Areas:



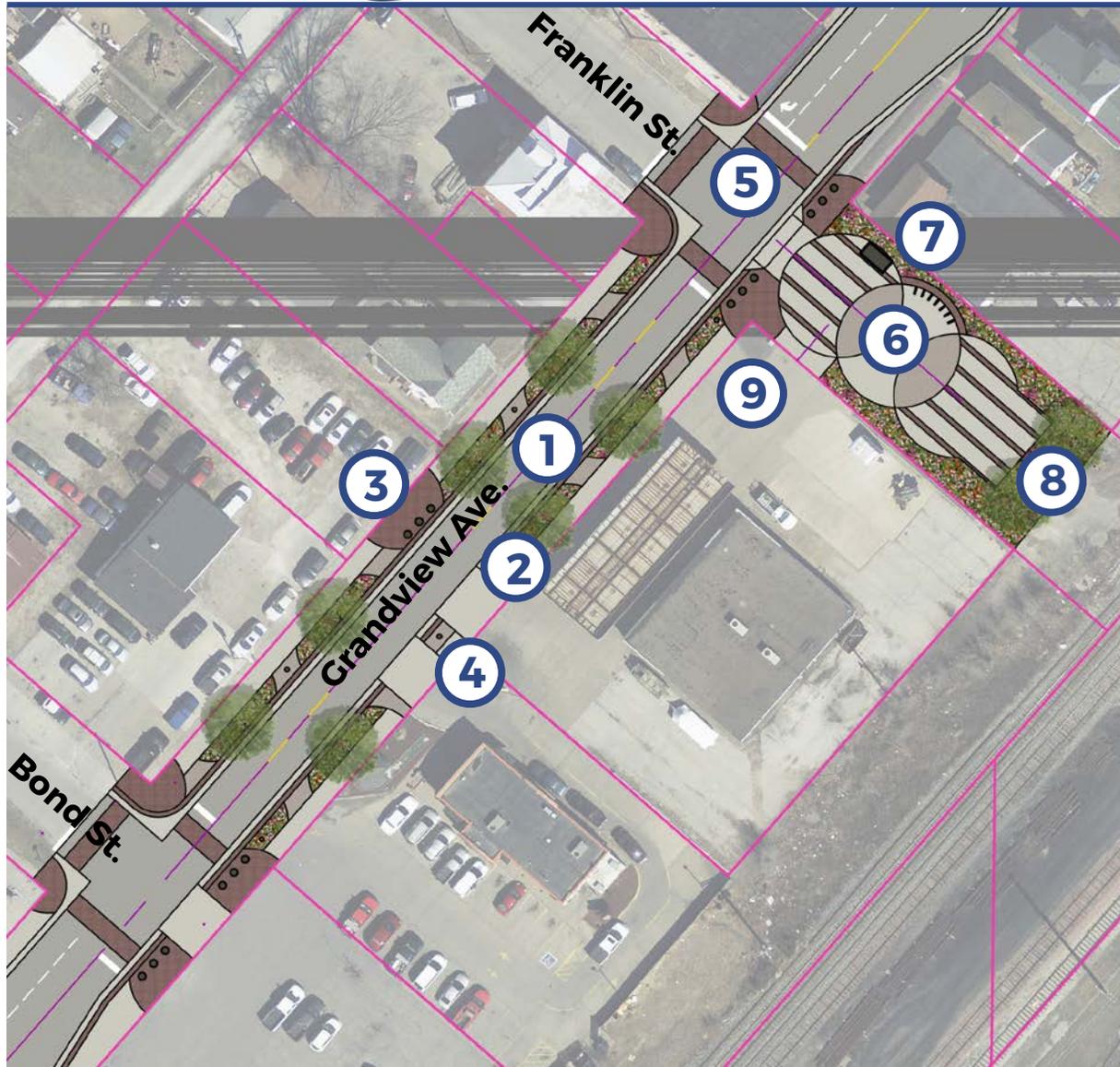


Site 05: Bond St. to Franklin St.



Existing Conditions & Considerations:

- True urban section of corridor
- Narrow sidewalks
- Uncomfortable pedestrian environment and no crossings
- No green space or shade

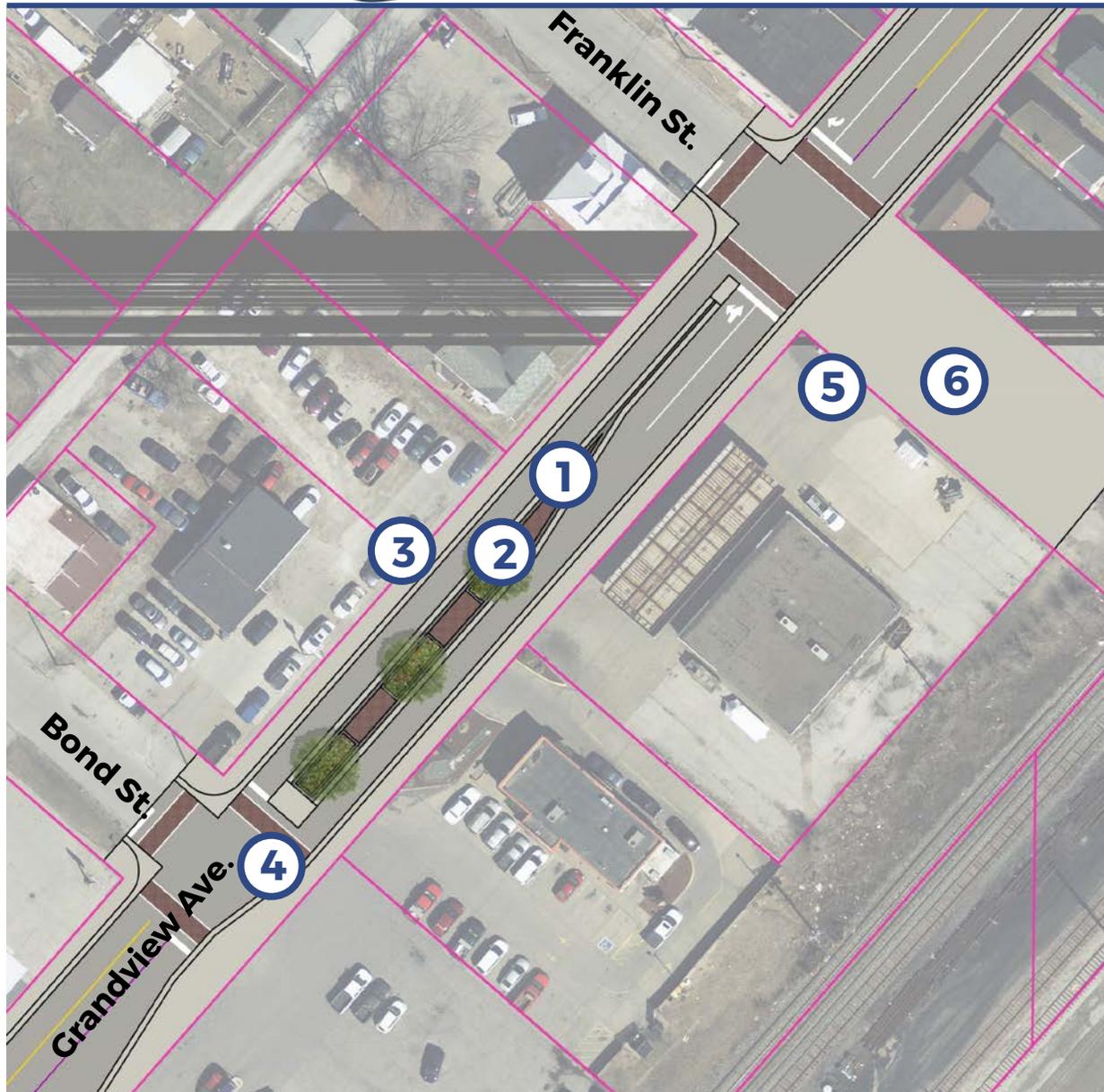


Option 'A' Design Components:

1. Two-lane road
2. Storm water planter (typ.)
3. Pervious paving system and splash pad (typ.)
4. Decorative street lighting (typ.)
5. Specialty paving crosswalks (typ.)
6. Pervious paving plaza/trailhead
7. Trail system signage and bike racks
8. Parking stalls for trailhead
9. Relocate business driveway



Site 05: Bond St. to Franklin St.



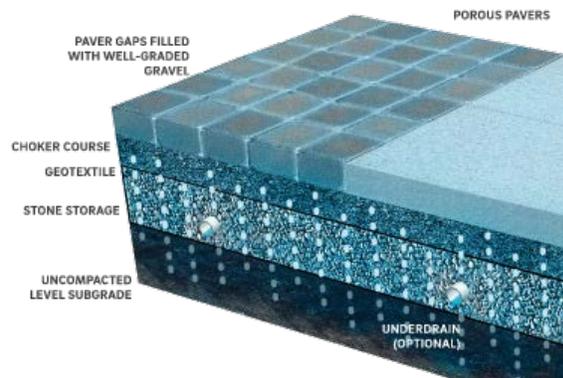
Option 'B' Design Components:

1. Pervious paving median
2. Raised landscape planter
3. Decorative street lighting (typ.)
4. Specialty paving crosswalks (typ.)
5. Relocate business driveway
6. Redevelopment opportunity



Design Precedents:

Pervious Paving



Storm Water Planter



Applicable Areas:



- ~~Site Visit~~ – Nov. 9
- ~~Project Area Assessment~~ – Dec. 2
- ~~Initial Design Schematics & Charrette Presentation~~ – Dec. 9
- Three-Day Design Charrette – **TODAY**
- Design Options Submitted – Feb. 3
 - *EPA staff review*
- Final Design Options – Early March
- First Draft of Report – Mid-April
- Final Report Due – July



We want to know what you think!

Write your thoughts on a sticky note and place them on the printed images.

Thank you for your time!!!

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