



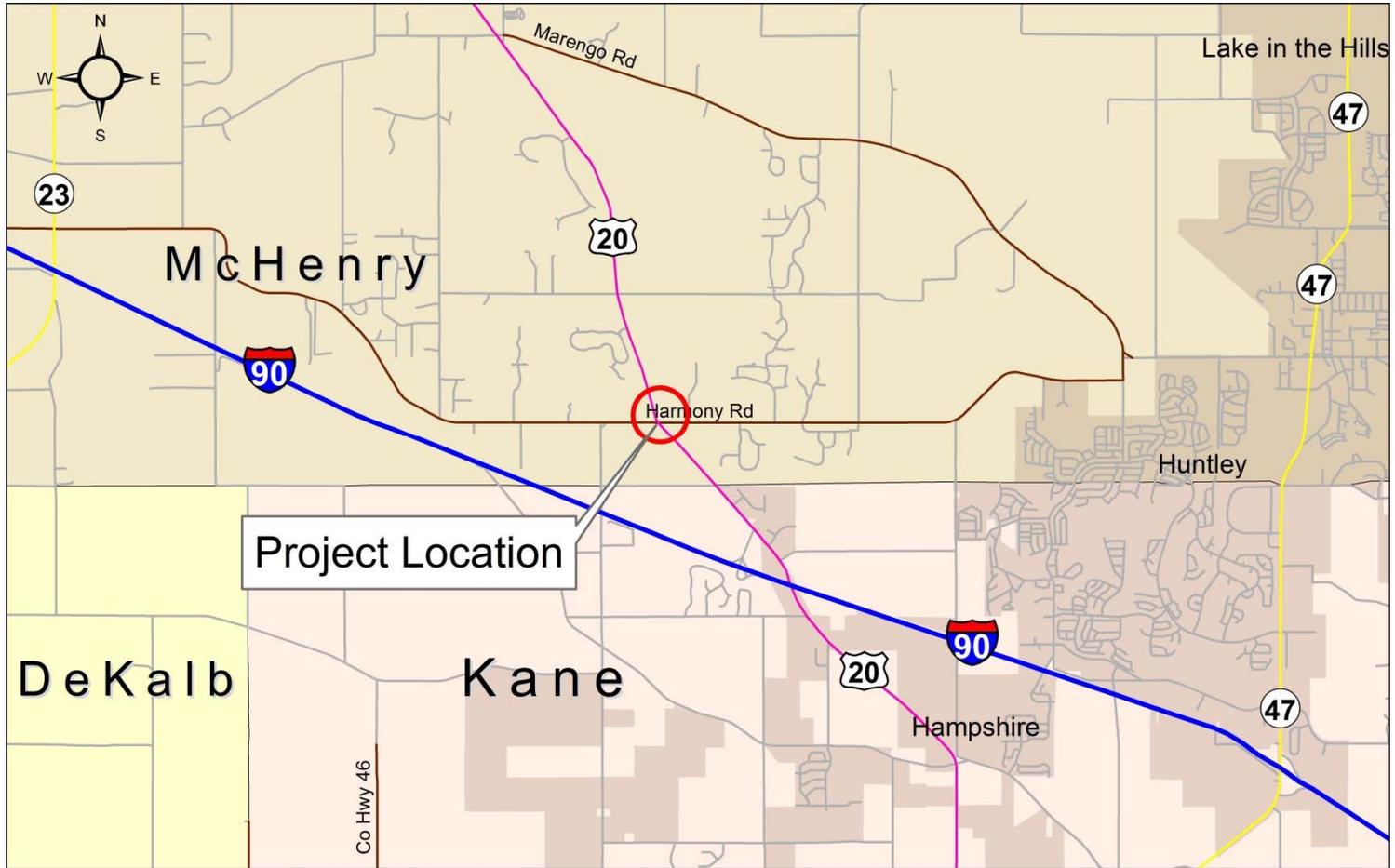
# US 20 at Harmony Road Study

Public Hearing  
August 5, 2015





# Project Location



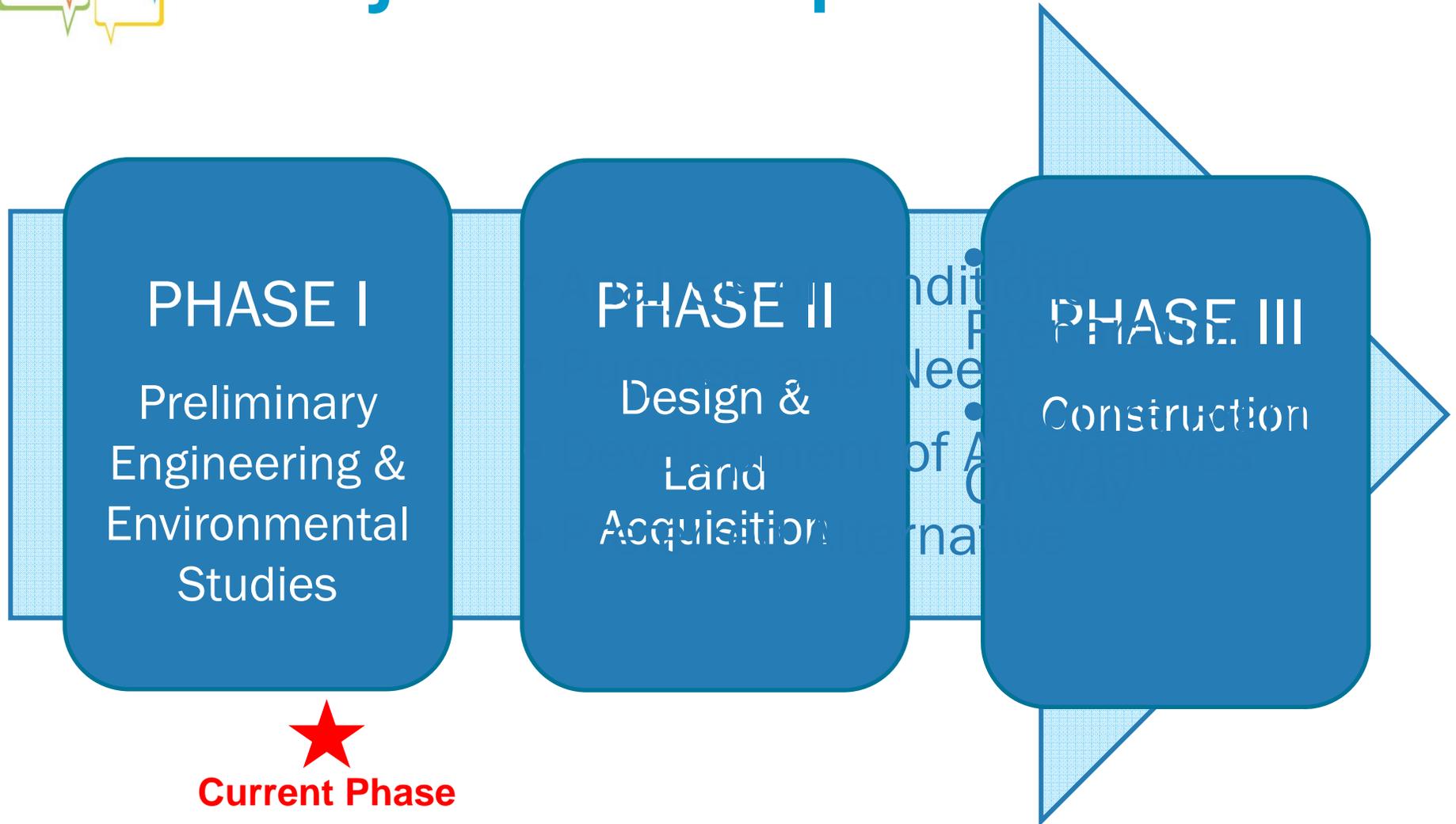


# 2013 Preferred Alternative





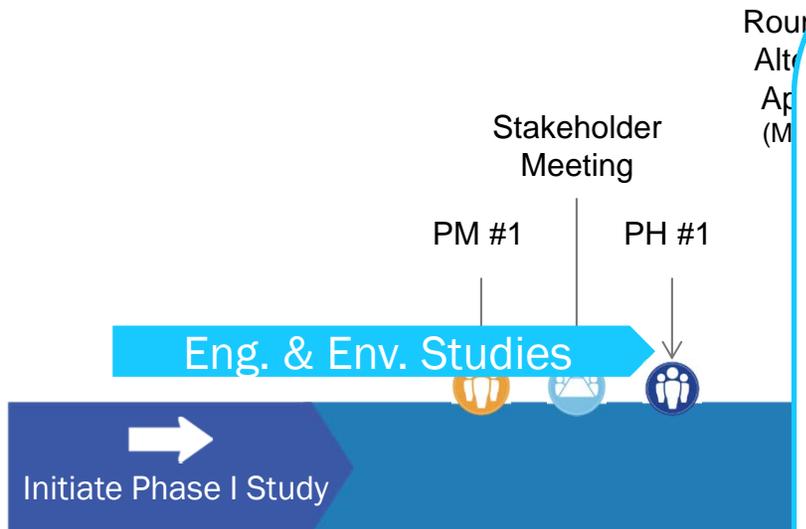
# Project Development Process



*This improvement is included in the Department's FY 2016-2021 Proposed Highway Improvement Program. The current engineering efforts are targeted to enable a contract letting in the middle years of our current multi-year program contingent upon plan readiness, land acquisition, and funding availability through future annual legislative appropriations.*



# Process and Schedule



## Environmental Measures

- Cultural Resources
- Threatened and Endangered Species
- Wetlands
- Woodlands





# 2013 Roundabout





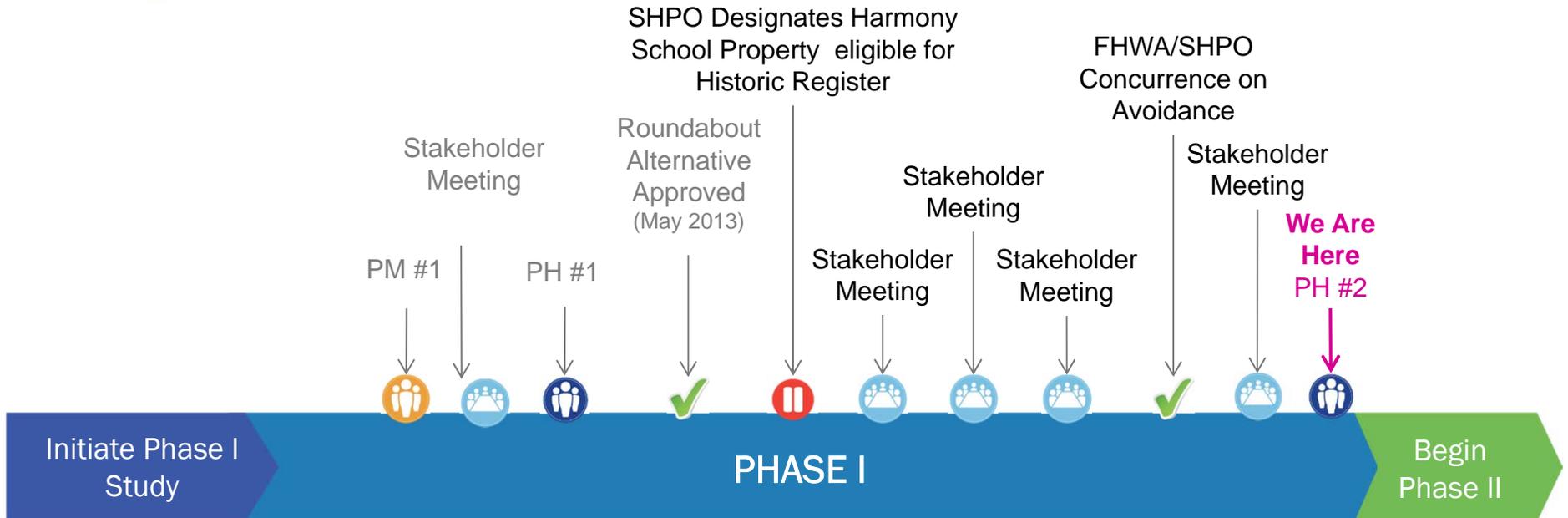
# Section 106/4(f) Studies

- National Register Eligible
- National Historic Preservation Act of 1966
- National Transportation Act of 1966
- Re-opened Phase I
- Avoidance alternatives





# Process and Schedule



-  Public Meeting
-  Stakeholder Meeting
-  Project Milestone





# Purpose and Need

## Project Purpose

- Improve Safety and Operations

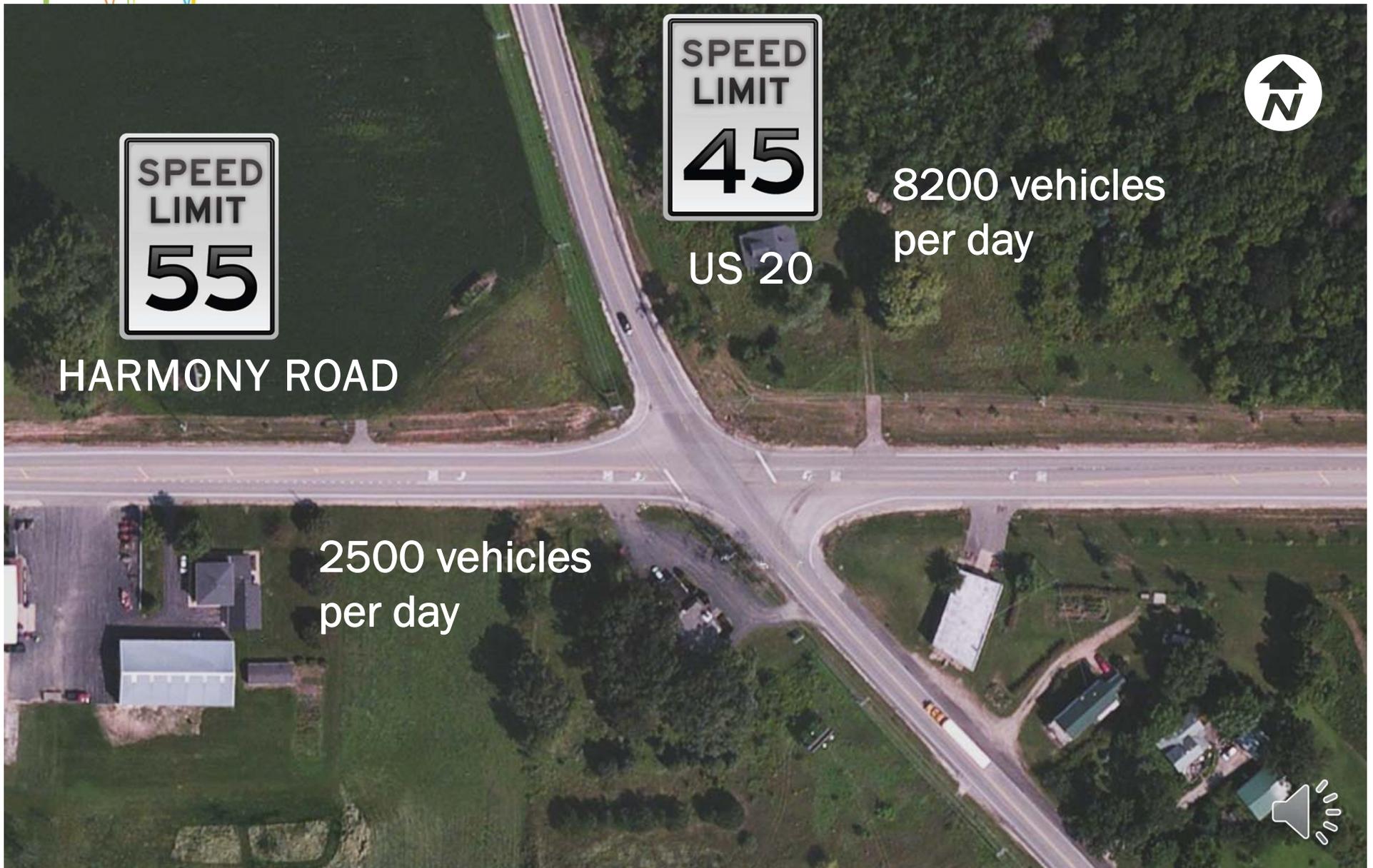
## Transportation Needs

- Safety
  - 5% Location
  - Fatal and Severe Crashes
  - Rear End, Angle Crashes
- Design
  - Poor sightlines, curved alignment
  - Lack of turn lanes





# Existing Conditions - Traffic



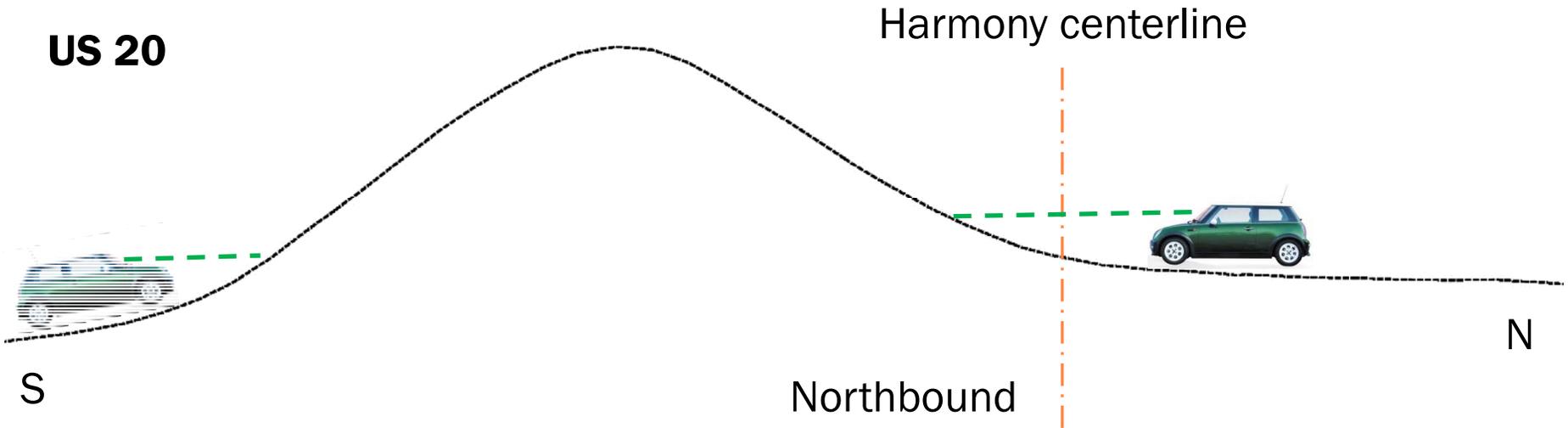


# Existing Conditions - Plan



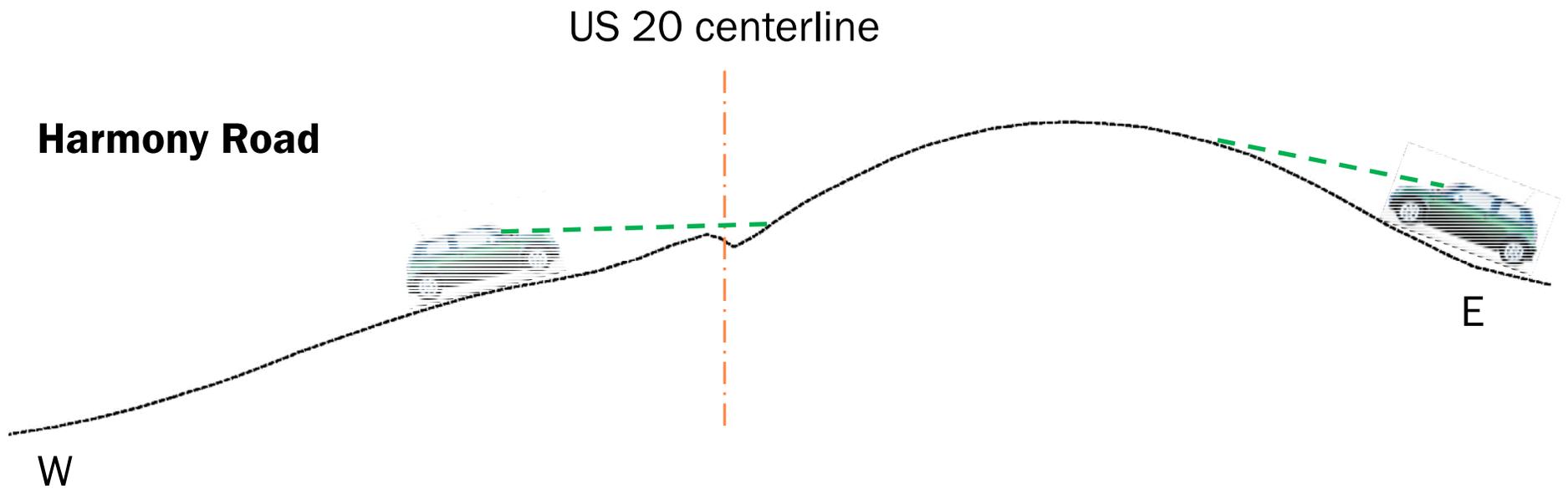


# Existing Condition - Profile



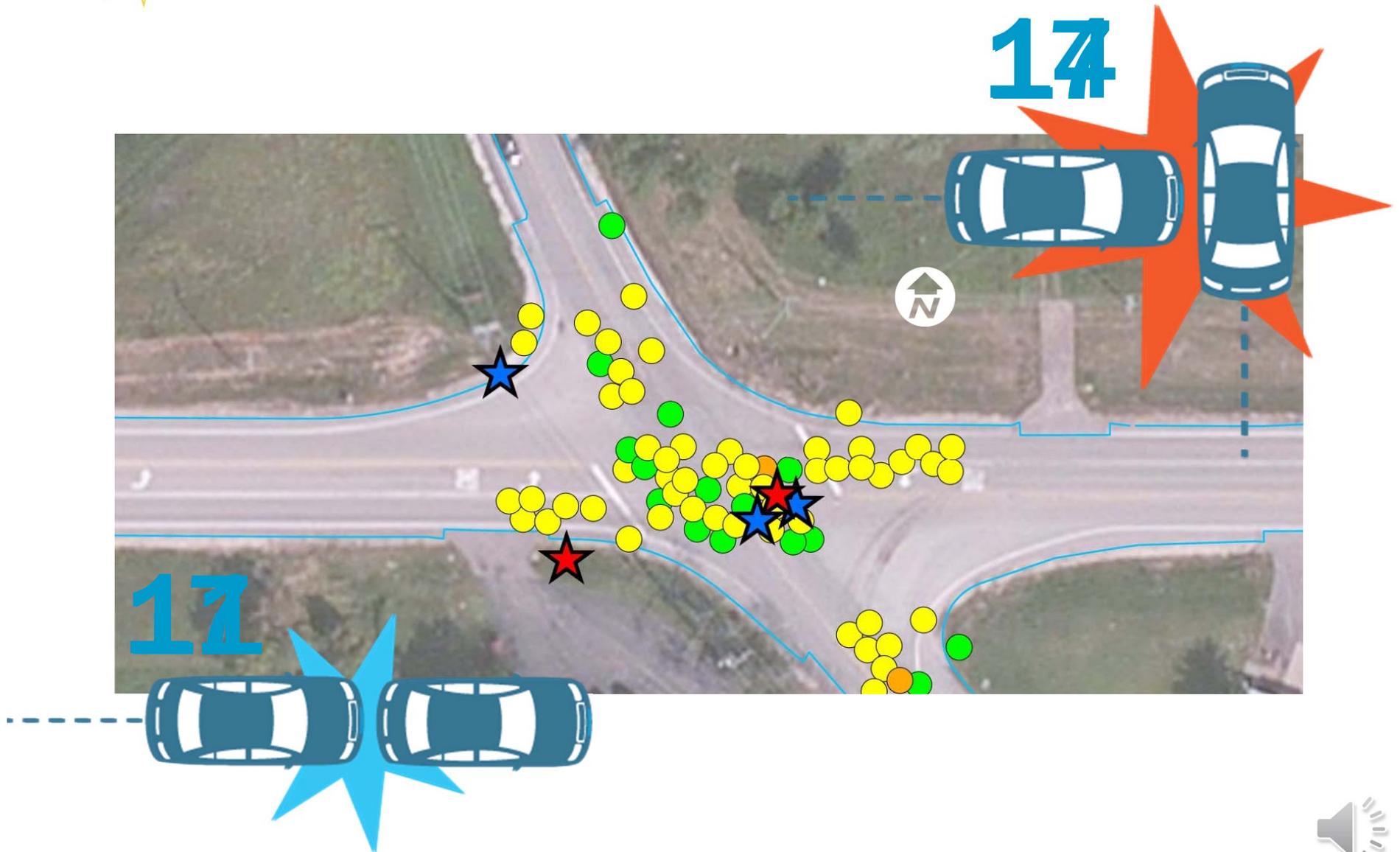


# Existing Condition - Profile





# Existing Conditions - Safety





# Alternatives Considered

- Do nothing ✓ Safety issues not addressed
- 4-way stop ✓ Back Ups
- Reduce Speed Limit ✓ Not effective as stand alone strategy
- Cut down hill on US 20 ✓ Does not address curve and skew
- Traffic signal with no reconstruction ✓ Does not address sightlines

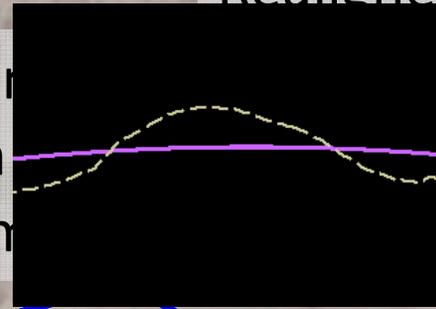


# 2015 Signal Alternative



Profile Flattened  
Realigned

Extended  
Turn  
Harmon



Eastbound Right  
Turn Lane

Former  
Harmony School  
Historic Property



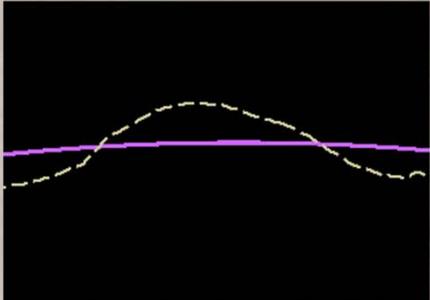
US 20 Right  
Turn Lane

South Leg  
Realigned

Additional Left  
Turn Lane on  
US 20



Profile  
Flattened



# 2015 Roundabout Alternative



North Leg  
Realigned

Former  
Harmony School  
*Historic Property*

Future Right Turn  
Lane (as needed)

Raised traffic  
Islands





# Alternative Comparison

	<i>Roundabout</i> 	<i>Traffic Signal</i> 
<i>Land Acquisition</i>	3.3 Acres	7.9 Acres
<i>Impacted Parcels</i>	6 Parcels	21 Parcels
<i>Level of Service</i>	C (AM) / B (PM)	D (AM) / C (PM)
<i>Construction Cost</i>	± \$5.0 M	± \$6.4 M
<i>Land Cost</i>	± \$0.38 M	± \$1.3 M
<i>Building Removals</i>	1	2
<i>Relocations</i>	0	1
<i>Wetland Impacts</i>	0.72 Acres	0.8 Acres
<i>Woodland Impacts</i>	1.5 Acres	2.9 Acres
<i>Expected Severe Crash Reduction</i>	57% Decrease	9% Decrease





# Detour Map

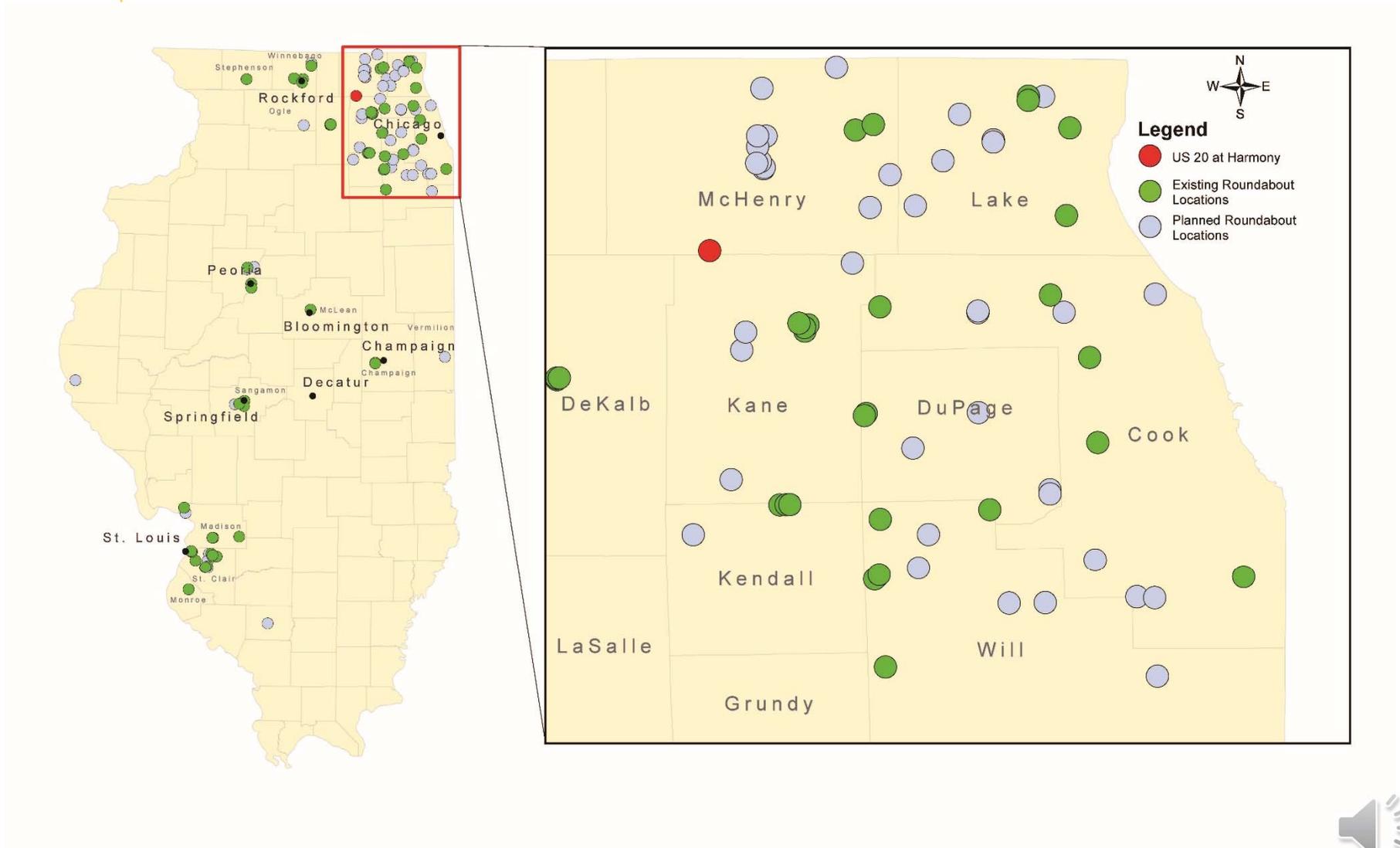


**Closure:** East Leg of Intersection  
**Detour:** Westbound Marengo Road to  
Southbound US 20





# Roundabouts





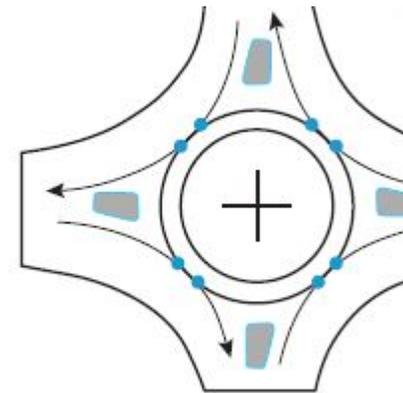
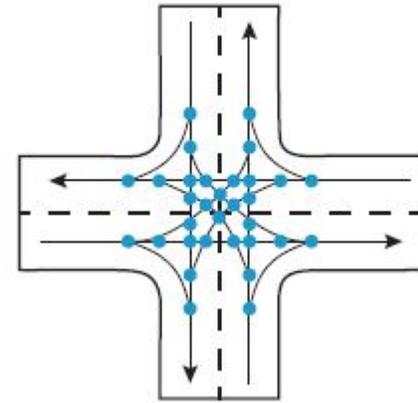
# Roundabouts





# Roundabouts - Safety

- Reduce conflict points
  - 44% reduction in overall crashes
  - 82% reduction in injury/fatal crashes
- Motorists travel at lower speeds
  - Safer for pedestrians
  - Increase driver reaction time



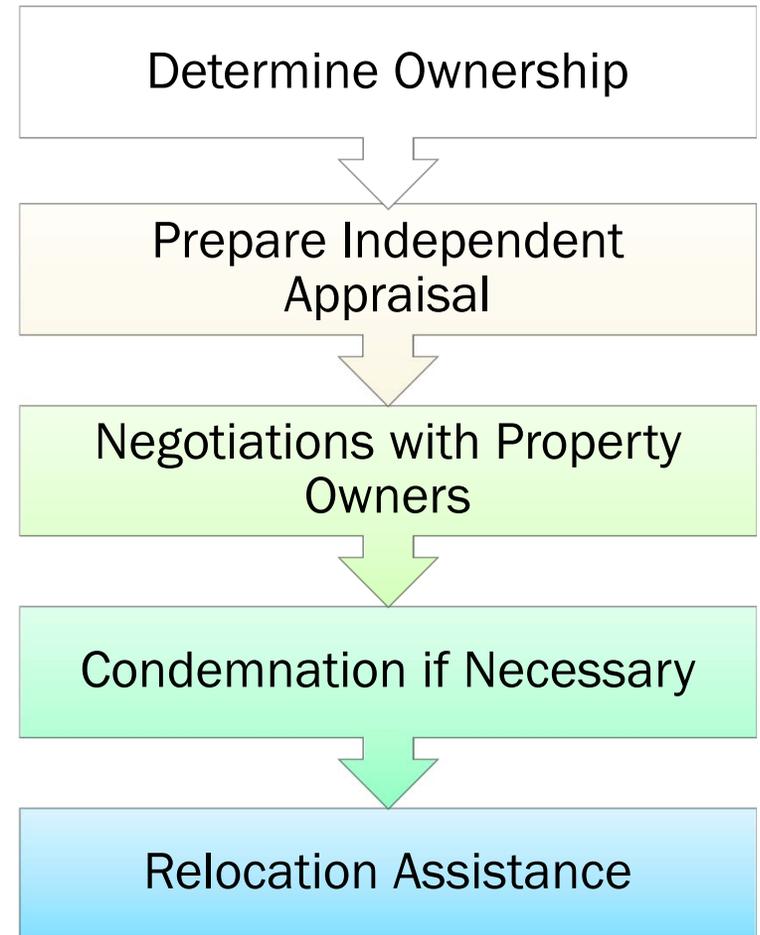
# Roundabouts – Truck Apron





# Land Acquisition Procedure

- Fee Simple
  - Acquisition of all rights and interest
- Permanent Easement
  - Ownership retained by property owner
  - IDOT allowed permanent use of property to construct and maintain facilities
- Temporary Easement
  - Ownership retained by property owner
  - Temporary use to construct minor improvements







# Thank You

[www.us20atHarmony.com](http://www.us20atHarmony.com)

