



Long Range Transportation Planning Commission December 9, 2013



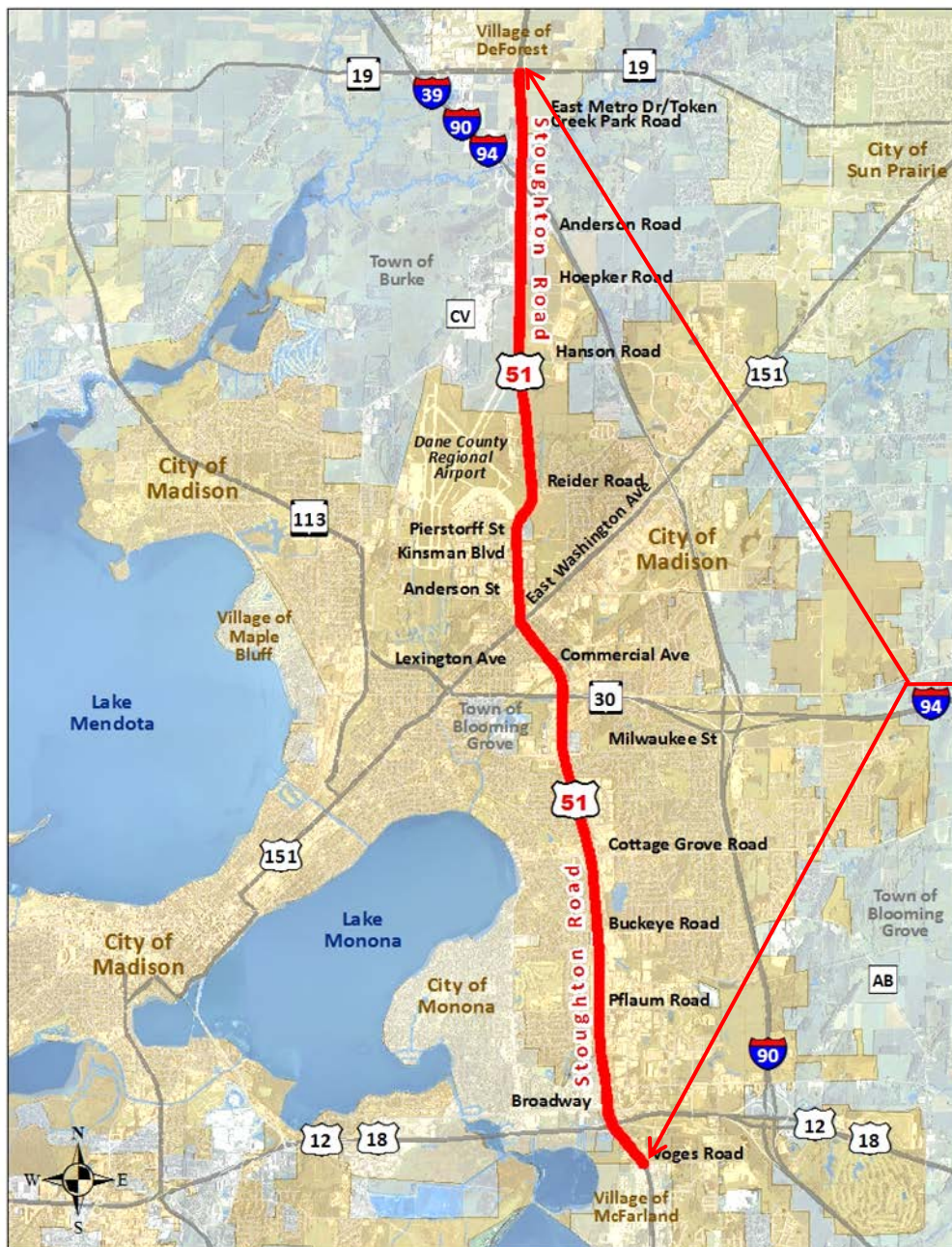
Today's presentation given by:
Jeff Berens, P.E.
WisDOT Southwest Region
Gerry Schmitt, P.E.
KL Engineering



Presentation Outline

- Study Purpose and Need
- Alternative Concepts
- WisDOT Recommended Alternative
- Impacts Comparison
- Study Schedule
- Questions





**US 51, Madison – DeForest,
Voges Road – WIS 19
Dane County
Project ID 5410-05-00**

STUDY LIMITS

Study Purpose and Need

- Improve safety
- Reduce congestion
- Improve bicycle, pedestrian, and transit facilities
- Reduce diversion to neighborhood streets
- Support economic development



Traffic Safety

- Crashes from 2007 to 2011
 - 1,859 crashes (over 7 per week)
 - 606 crashes with injuries (over 2 per week)
 - 10 fatalities
- Majority of crashes occur at signalized intersections
 - Buckeye Road
 - Pflaum Road
 - East Washington Avenue



Traffic Operations

- Current Traffic Operations Conditions
 - Peak hour delays increasing
 - Long backups at signalized intersections with high volume sideroads
 - Beltine/Broadway
 - Pflaum Road
 - Buckeye Road
 - East Washington Avenue
- Operations by 2040
 - Failing throughout corridor
 - Dane County population anticipated to increase by over 100,000 people
 - Planned development in and around corridor



Improvement Alternatives

- No Build
 - Maintenance of existing roadway without expansion or reconfiguration
- Alt A – Low Build w/ Capacity Expansion
 - Keeps most existing intersections at grade
- Alt B – Enhanced Expressway
 - Adds interchanges at intersections with high crash rates and major traffic delay
- Alt C – Freeway Conversion
 - Provides a free flow movement for traffic through the corridor

Preferred alternative could be a Combination of alternatives



Proposed Recommended Alt

- Combination of Alternatives A, B, & C
- Best addresses safety and congestion issues taking into accounts environmental impacts and projected cost
- May change based on input from the public, municipalities, and resource agencies



Proposed Recommended Alternative

Terminal Drive/ Voges Road



Terminal to Voges – Alt A

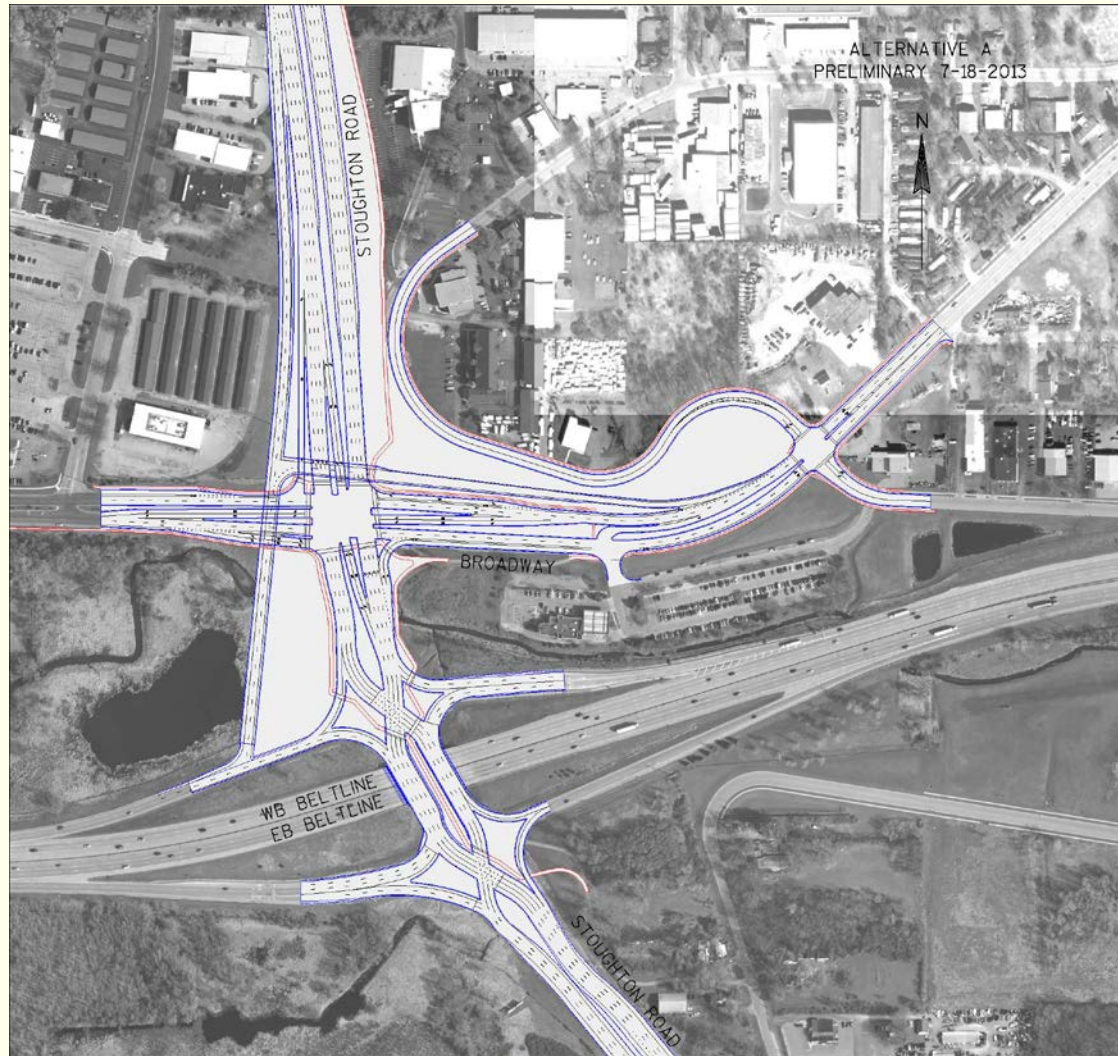


Proposed Recommended Alternative

Beltline to Broadway



Beltline to Broadway – Alt A



Beltline to Broadway – Alt A



View Looking Northwest

Stoughton Road Environmental Study - Stoughton Road at East Broadway (Alt A)

March 14, 2013

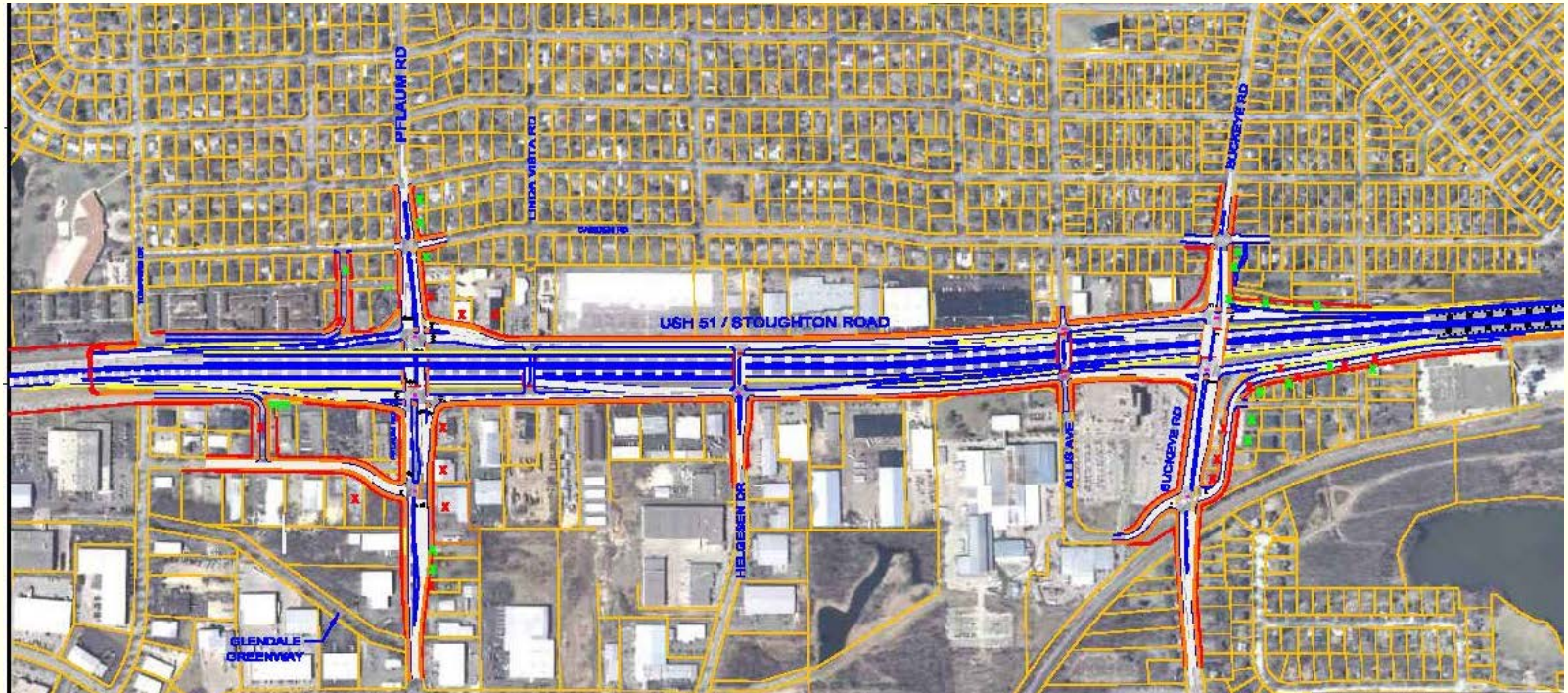


Proposed Recommended Alternative

Pflaum to Buckeye



Pflaum to Buckeye – Alt B



Pflaum to Buckeye – Alt B



Pflaum to Buckeye – Alt B



Proposed Recommended Alternative

Cottage Grove Road



**STOUGHTON ROAD CORRIDOR STUDY
ALTERNATIVE A/B**

SCALE 1" = 800'

N

PROJECT NO: 5410-05-00	HWY: USH 51	COUNTY: DANE	ALTERNATIVE A/B	SHEET	E
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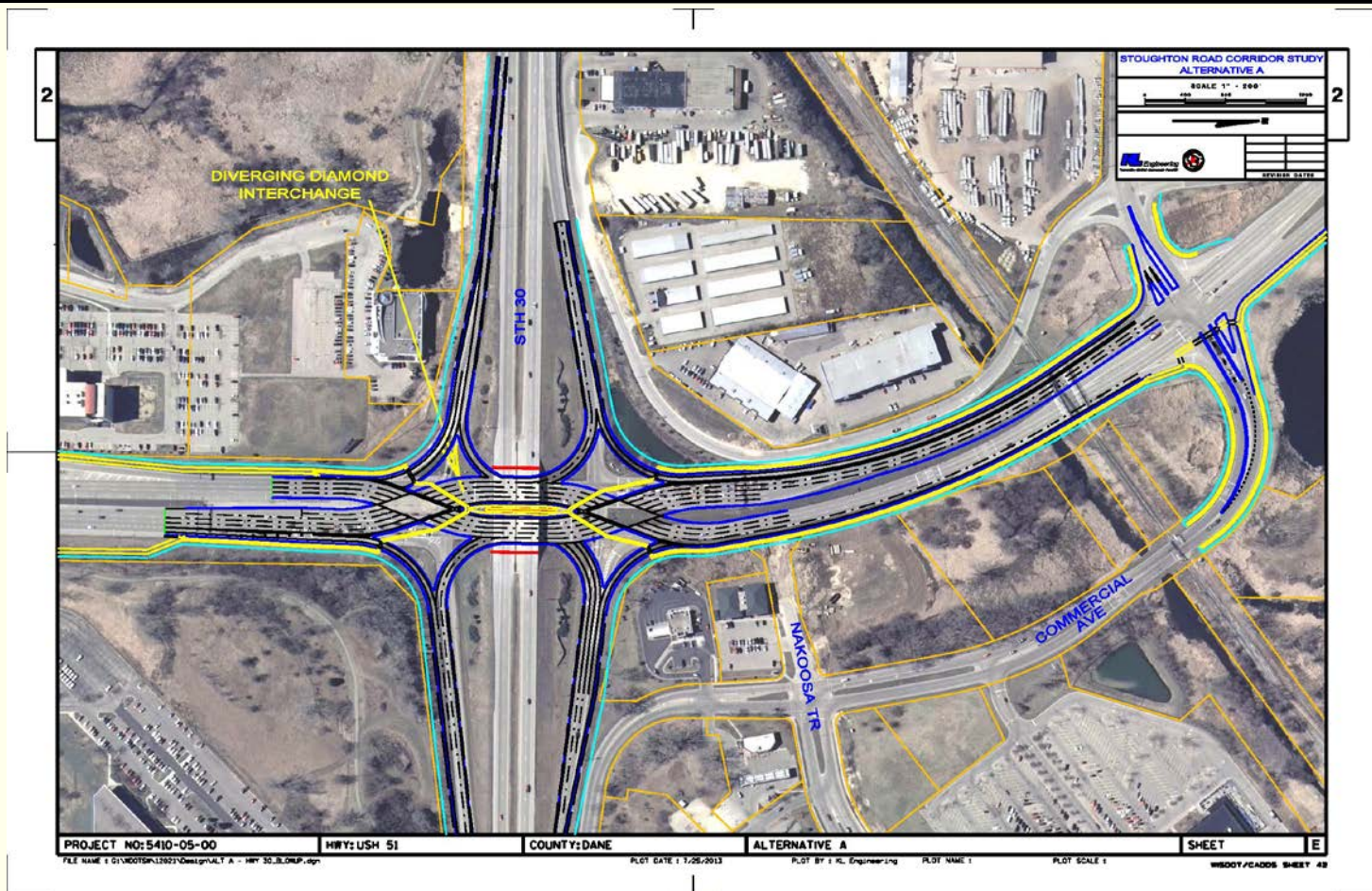
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Proposed Recommended Alternative

WIS 30 to Lexington/Commercial



WIS 30 to Lexington/Commercial – Alt A

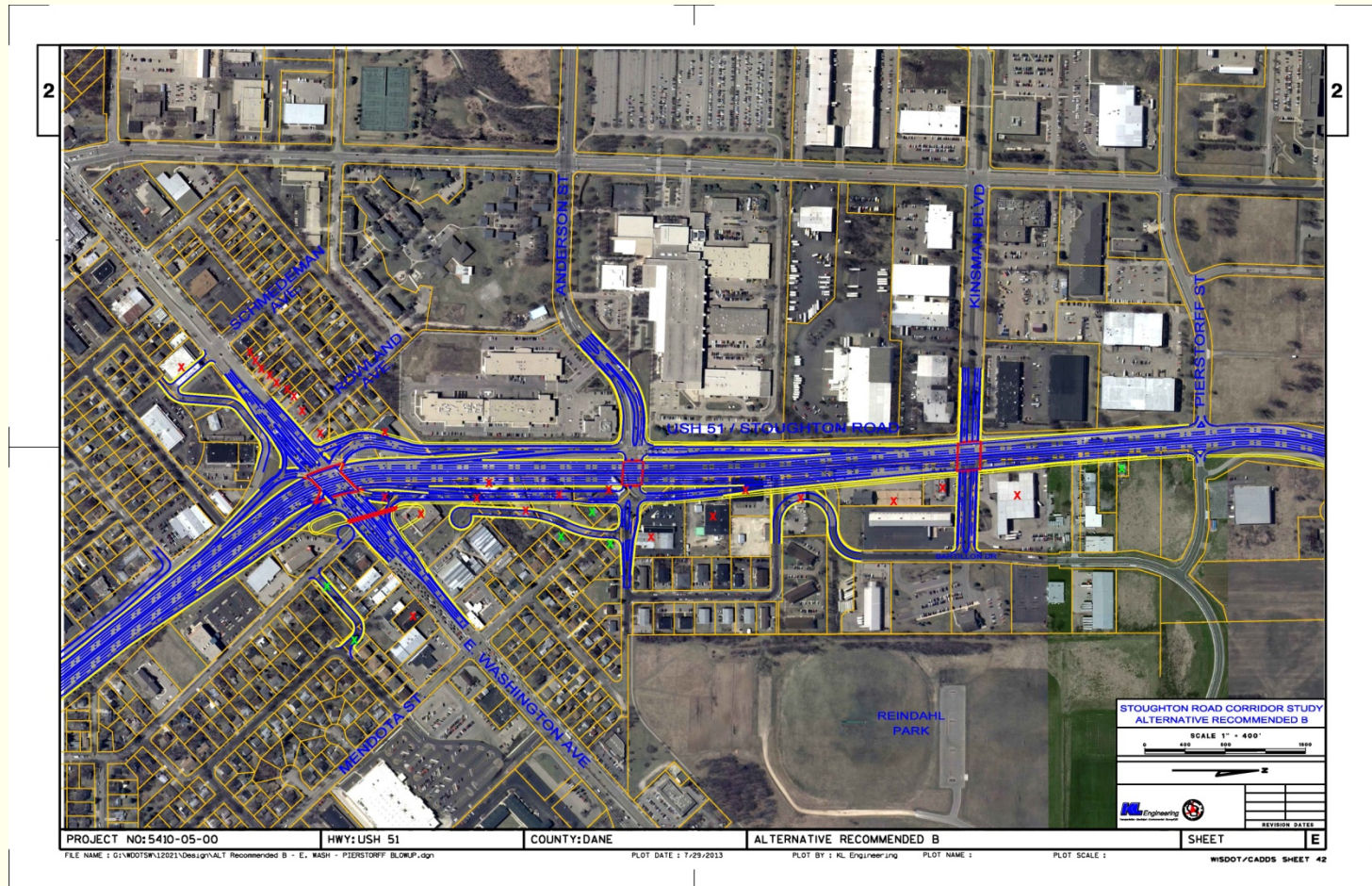


Proposed Recommended Alternative

East Washington to Pierstorff



East Wash to Pierstorff – Alt B

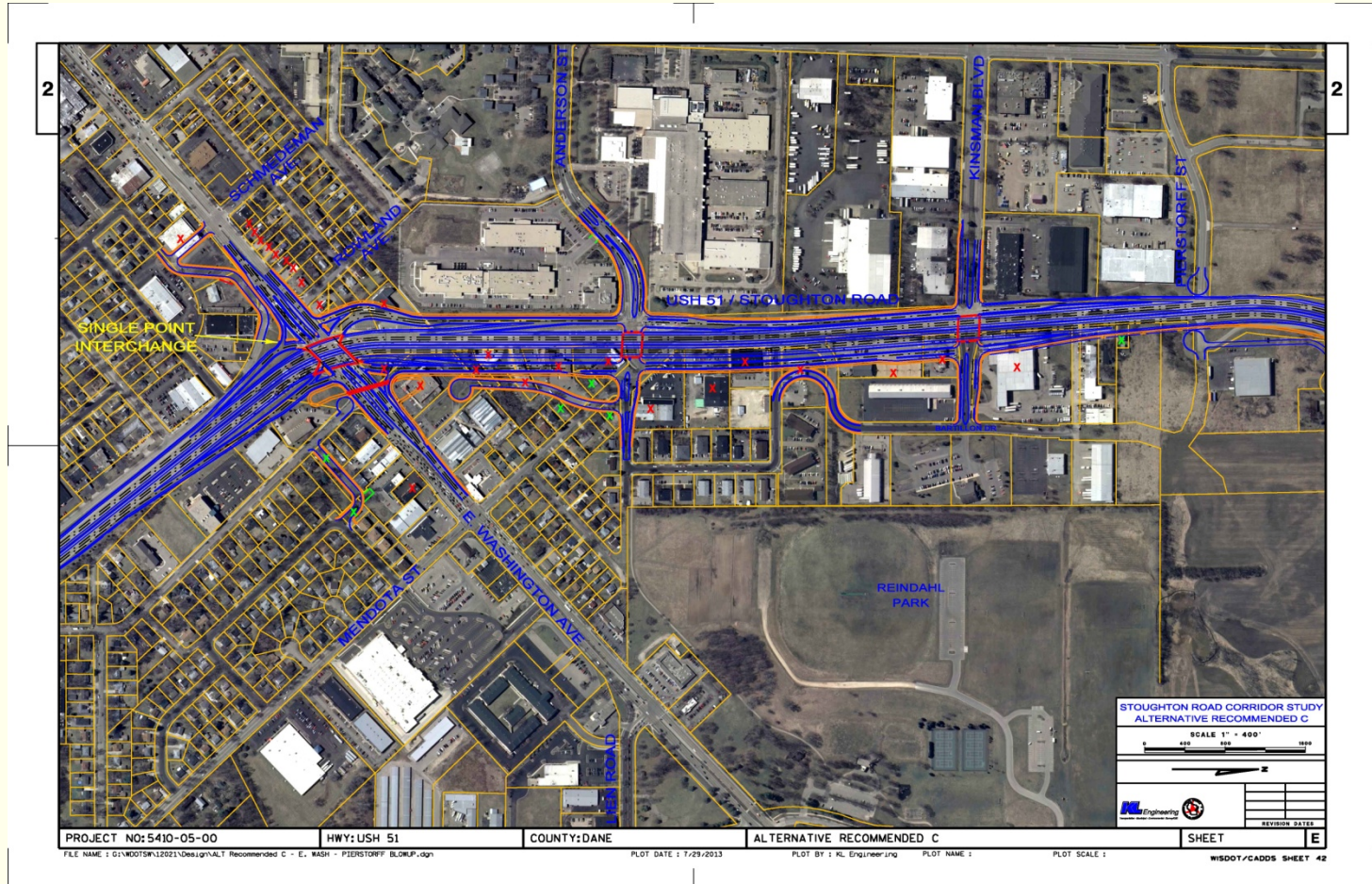


East Wash to Pierstorff – Alt B



View Looking North

East Wash to Pierstorff – Alt C



East Wash to Pierstorff – Alt C



View Looking Southeast

Proposed Recommended Alternative

Pierstorff to Hanson



**STOUGHTON ROAD CORRIDOR STUDY
ALTERNATIVE B**

LEGEND

- X POTENTIAL RELOCATION
- PROPOSED STOUGHTON ROAD
- 1 RELOCATION NUMBER
- PROPOSED RIGHT-OF-WAY

SCALE 1" = 800'

STOUGHTON ROAD CORRIDOR STUDY ALTERNATIVE B

2

PIERSTORFF ST

PORTAGE RD

RIEDER RD

AMELIA EARHART DR

WESTCHESTER GARDENS PARK

HANSON RD

DANE COUNTY REGIONAL AIRPORT

PROJECT NO: 5410-05-00

HWY: USH 51

COUNTY: DANE

ALTERNATIVE B

SHEET

E

FILE NAME: I:\GIS\SP\12021\Drawings\12021\PLAN\T B - 5.dgn

PLOT DATE: 3/18/2013

PLOT BY: R. Engineering

PLOT NAME: 1

PLOT SCALE: 1

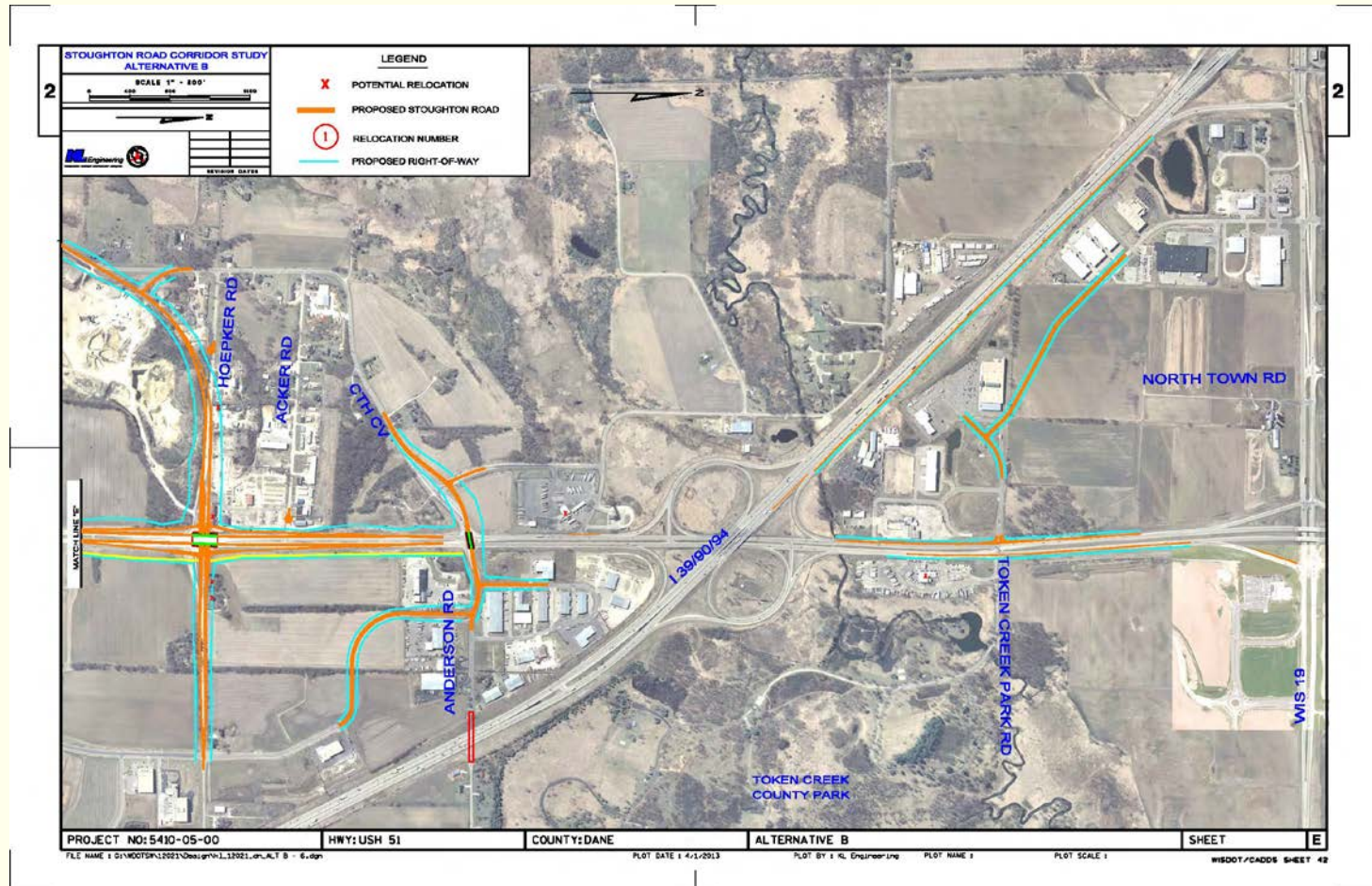
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Proposed Recommended Alternative

Hoepker to WIS 19



Hoepker to WIS 19 – Alt B



Bicycle / Pedestrian Facilities

- On-road as appropriate
- Upgrade crossings and parallel roadways
- Overpasses/Underpasses
 - Tompkins Drive
 - Portland Parkway (reconstruct)
 - Walsh Road (over WIS 30)
 - Larson Court
 - East Washington Avenue
 - Anderson Road (over I-39/90/94)
- Off Road Paths
 - Broadway – Pflaum Road
 - Pflaum Road – Buckeye Road
 - East Washington – Kinsman Road
 - Pierstorff Street – Anderson Road



Impacts - Relocations

	Business	Residential
Alternative A	64	53
Alternative B	87	48
Alternative C	86	100
Recommended Alternative	69	48

Impacts - Wetland & Farmland

	Number of Acres	
	Wetlands	Farmland
Alternative A	10	3
Alternative B	25	17
Alternative C	35	15
Recommended Alternative	10	17

Additional Impacts – Rec'd Alt

- HazMat
 - 80 sites in corridor and/or incidents identified with recognized environmental conditions
 - 33 parcels potentially require full or partial acquisition containing identified sites with recognized environmental conditions
- Noise
 - 4 locations where noise walls were determined to be feasible and reasonable
- Air Quality
 - No issues anticipated
 - CO emissions modeled using the East Washington Avenue interchange design – all receptors were below 75% of the NAAQS
- Environmental Justice
 - 3 areas identified with minority population concentrations
 - No areas identified with concentrations of low-income populations
 - No disproportionately high or adverse impacts to EJ populations anticipated



Estimated Project Costs

- Year 2013 \$ construction and real estate costs estimated
 - Alternative A \$200 - \$230 Million
 - Alternative B \$550 - \$630 Million
 - Alternative C \$700 - \$810 Million
 - Recommended \$300 - \$350 Million
- Planning Level Estimates



Funding and Scheduling

- Currently no funding allocated for final design or construction
- Funding would be from Majors Program (administered by TPC)
 - Statewide program
 - WisDOT prioritizes and submits to TPC
 - TPC recommends to Legislature and Governor
- If funding is approved, WisDOT can:
 - Begin final design
 - Prioritize phases or sections for most effective order of construction
 - Schedule project as appropriate



US 51 Stoughton Road Schedule

- Publish Draft EIS – February/March 2014
- Public Hearing – March 2014
- Select Preferred Alternative – April 2014
- Public Meeting #3 – May 2014
- Final EIS/Record of Decision - October 2014





QUESTIONS?