



Randall Road Improvements Study

Community Advisory Council

Meeting #6

November 14, 2007

9:30 am

Lake in the Hills Village Hall

600 Harvest Gate

Lake in the Hills, IL



HDR



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Agenda for Meeting #6

- Introductions
- Review of Process to Date
- Approval of October 10, 2007 Meeting Notes
- Summary of CAC Meeting #5
- Review Evaluation Status/Results for Level 1.
Functional Evaluation
- Focus for CAC Meeting #7



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Introductions

- Modify membership list as required to account for:
 - Incorrect or outdated information
 - Changes in Representation
 - New members



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Review of Process to Date

- Half-way point
- The purpose of the Randall Road Improvements Study CAC is to be a liaison between the public and McHenry County to help develop a Preferred Alternative that addresses the communities' needs.
- To date the CAC has successfully helped ...
 - Identify stakeholders and critical issues along the corridor
 - Develop a Purpose and Need for the study
 - Identify (Achieve Consensus on) an Alternative Evaluation Process
 - Develop Evaluation Criteria
 - Develop improvement options to be evaluated.



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Comments to Meeting Notes?

- Discussion of CAC #5 meeting notes
 - Approval of CAC #5 meeting notes



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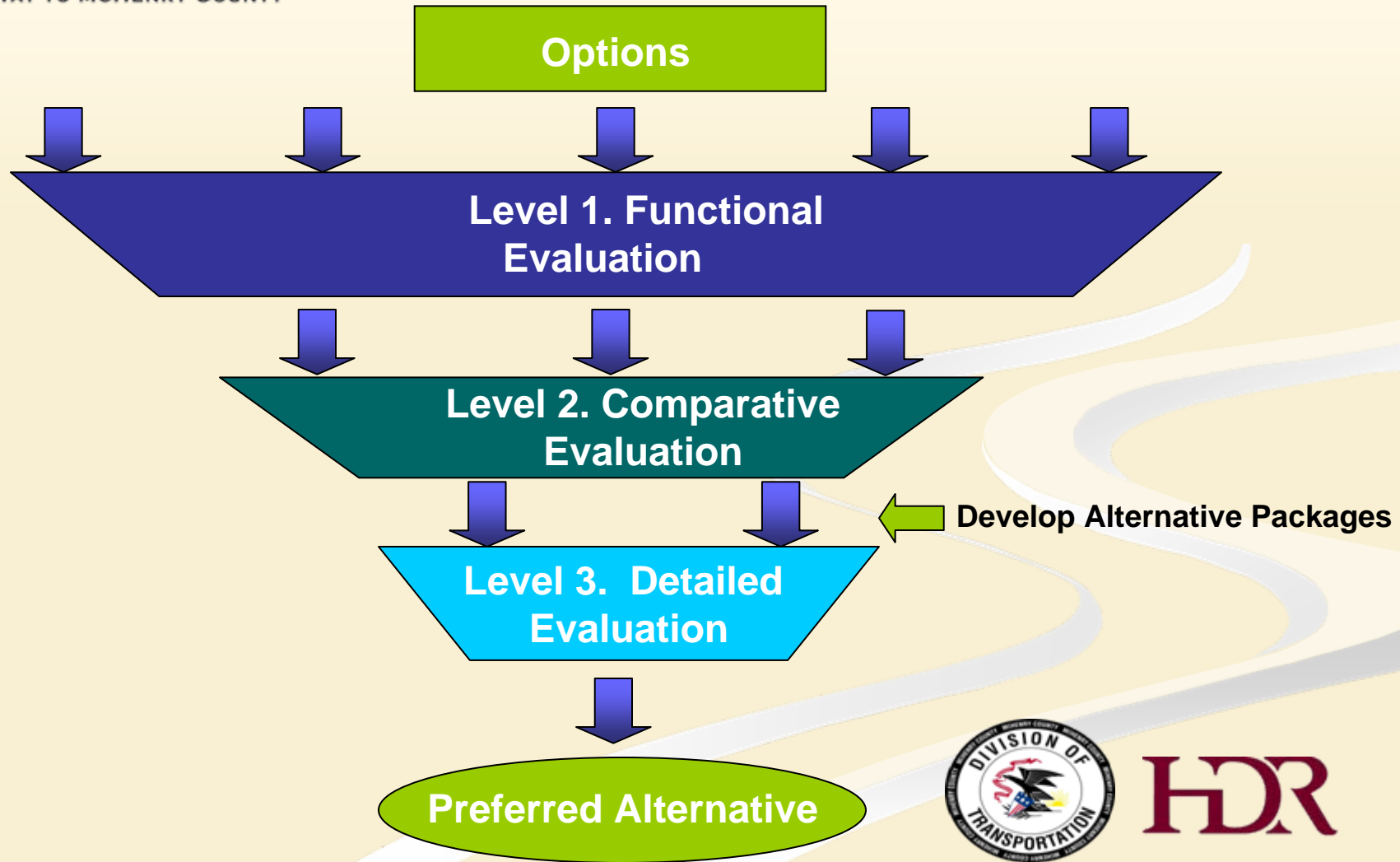


Summary of CAC Meeting #5

- Developed Congestion Management System (CMS) Improvement Options
- Reviewed Brainstormed Improvement Options
 - Arterial Options
 - Intersection Options
 - Pedestrian/Bicycle Options



Evaluation Process





Level 1: Functional Evaluation

- Eliminates unrealistic or non feasible options
- Analyzed each category separately
- Four evaluation criteria based on study needs
 - Regional Mobility: Is it compatible with the existing and planned transportation system?
 - Local Access/Deficiencies: Is access to significant features/roadways maintained?
 - Community Values: Is it compatible with local goals and objectives?
 - Community Values: Does it accommodate or preserve future transit options?





Level 1: Functional Evaluation

- Since the last meeting and the initiation of the evaluation process we...
 - Added a few improvement options that were discovered while researching others (Parallel Flow Intersection, Michigan U-Turn Interchange)
 - Shifted options between categories (internal circulation road improvements to CMS)
 - Reorganized the way options within several categories are presented (pedestrian/bicycle, CMS)
 - Developed a *Support Toolbox* that will be referenced once a Preferred Alternative is chosen





Evaluation Results: Arterial Improvement Options

- Began with 12 Arterial Options
- Created a new frontage road option, Moved other frontage road (internal circulation road) option to CMS





Internal Circulation Road vs. Frontage Road improvements

■ Internal Circulation Rd

- Developer Owned-Maintained
- Limited Capacity
- Improves circulation within development

■ Frontage Road

- Public ROW
- Accommodates Larger Capacity
- Improves local access between developments

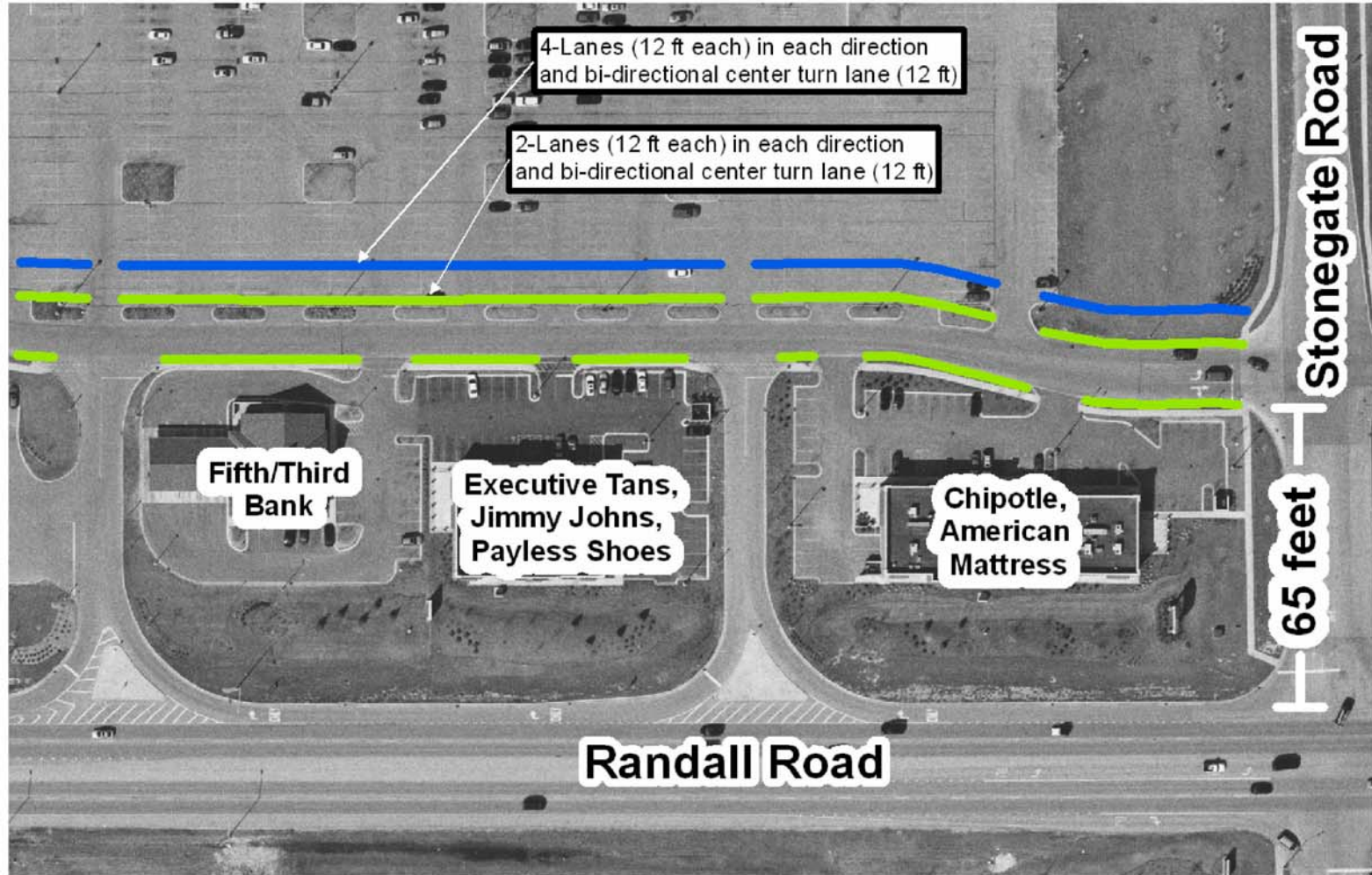
■ Other Issues

- Intersection spacing (between access road and Randall Road)
- Traffic Signals
- Existing Land Use
- Significant Parking Impacts





Internal Circulation Road vs. Frontage Road improvements



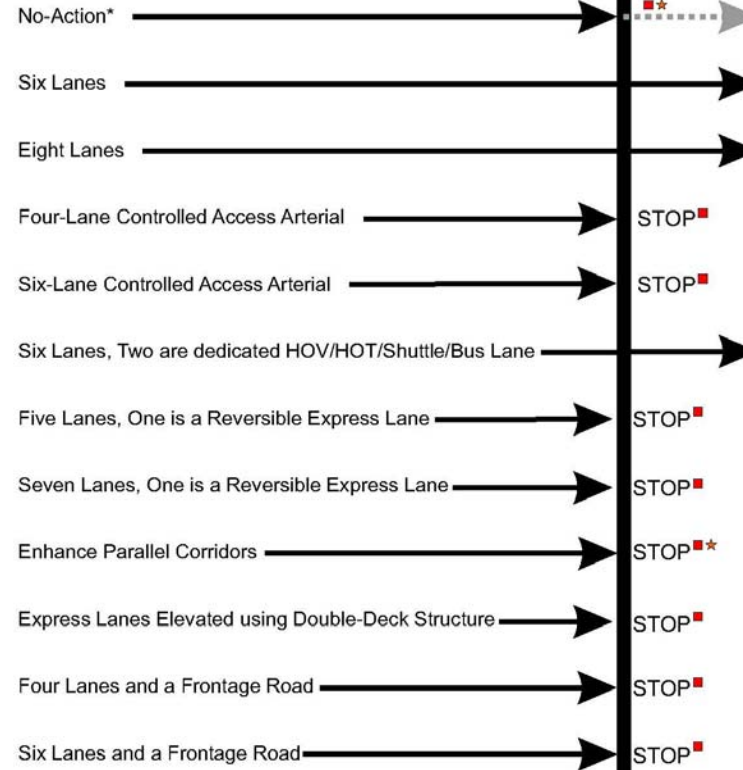


Alternatives Evaluation Summary Arterial Improvement Options

4 Arterial Options will be analyzed in Level 2. Comparative Evaluation

Arterial Improvement Options

Lane Options



We Are Here

Functional Evaluation

Comparative Evaluation

Detailed Evaluation

Note:

*The No-Action Option did not pass the Functional Evaluation and is not a feasible alternative; it continues into Comparative Evaluation for comparative purposes only.
STOP - Indicates that the option will not continue in the evaluation process and is eliminated from further study.

Option does not satisfy evaluation criteria developed for the following needs:

- Regional Mobility
- Local Access/Deficiencies
- ▲ Pedestrian/Bicycle Mobility
- ★ Community Values
- ▲ Safety

Figure - X
Arterial Improvement Options
Alternatives Evaluation Summary
Randall Road Improvements Study





Eval. Results: Intersection Improvement Options

- Options added since last meeting
 - No-Action Options for each intersection
 - General Intersection Improvements:
 - Modern Roundabouts along corridor
 - Randall Road at Algonquin Road:
 - Michigan Urban Diamond Interchange
 - Parallel-Flow Intersection





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Michigan Urban Diamond



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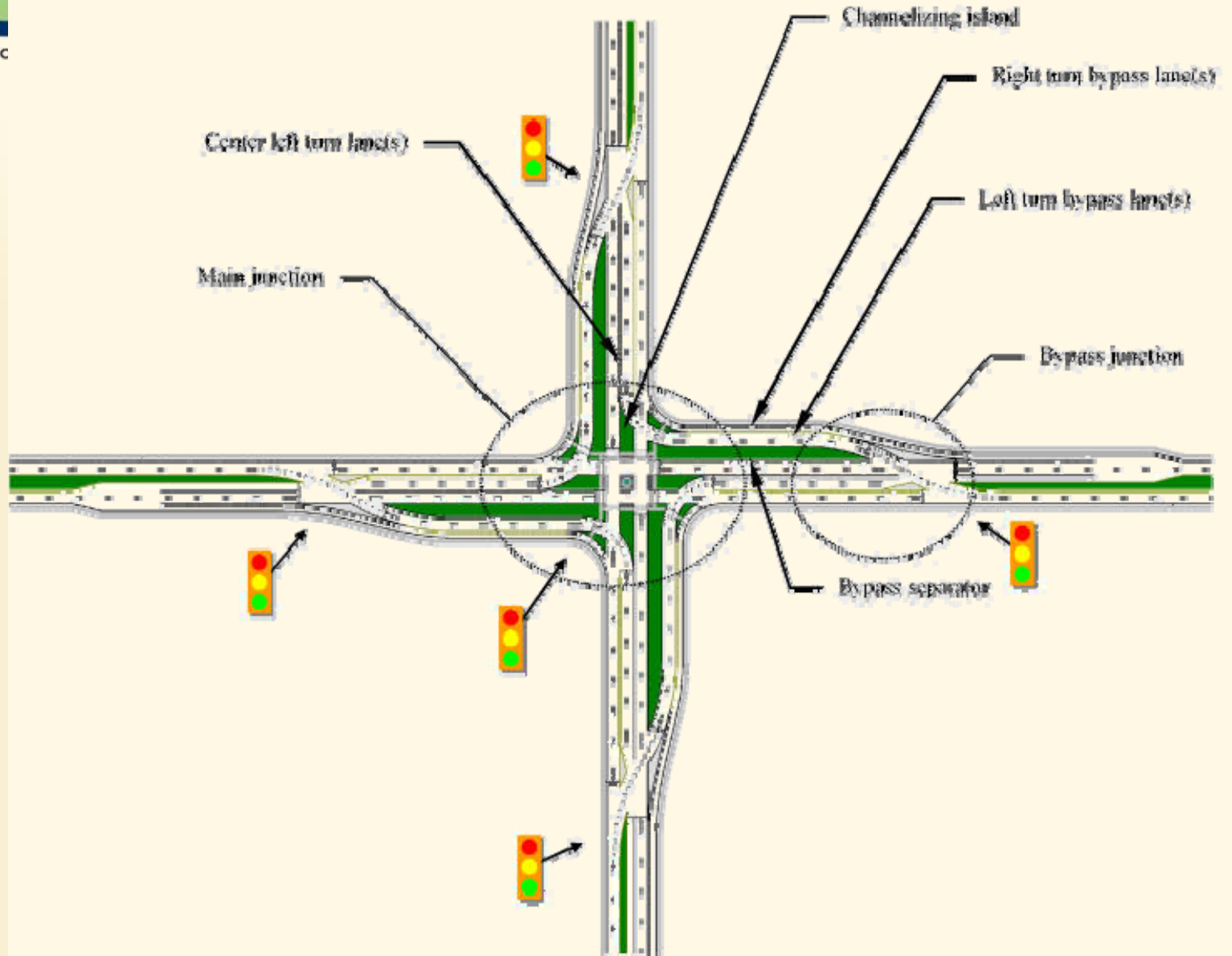
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Michigan Urban Diamond





Parallel Flow Intersection





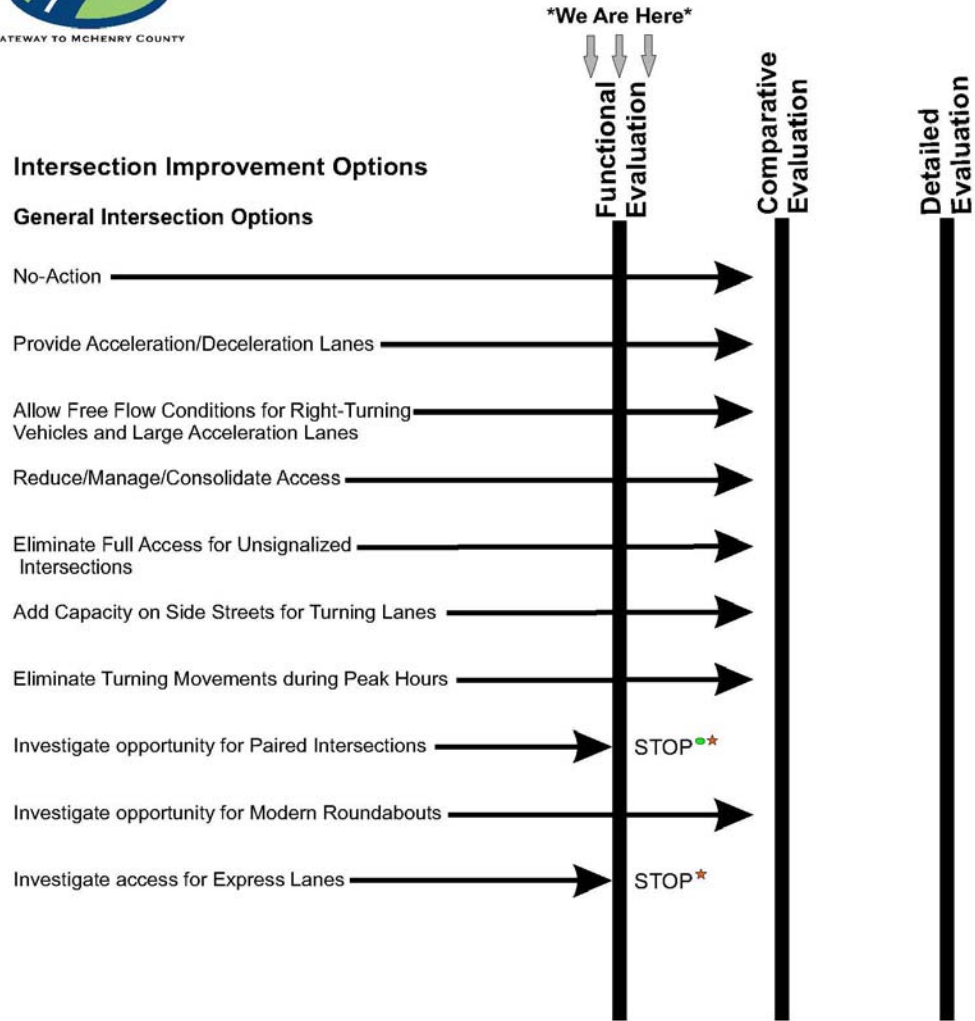
Eval. Results: Intersection Improvement Options

- 5 Options were Eliminated
 - General: Investigate Use of Paired Intersections
 - General: Investigate Access for Express Lanes
 - Randall at Algonquin: Super Street Intersection
 - Randall at Algonquin: Michigan Lefts (Median U-Turn) Intersection
 - Randall at Algonquin: Michigan Urban Diamond Interchange



Alternatives Evaluation Summary

Intersection Improvement Options



Note:
 STOP - Indicates that the option will not continue in the evaluation process and is eliminated from further study

Option does not satisfy evaluation criteria developed for the following needs:

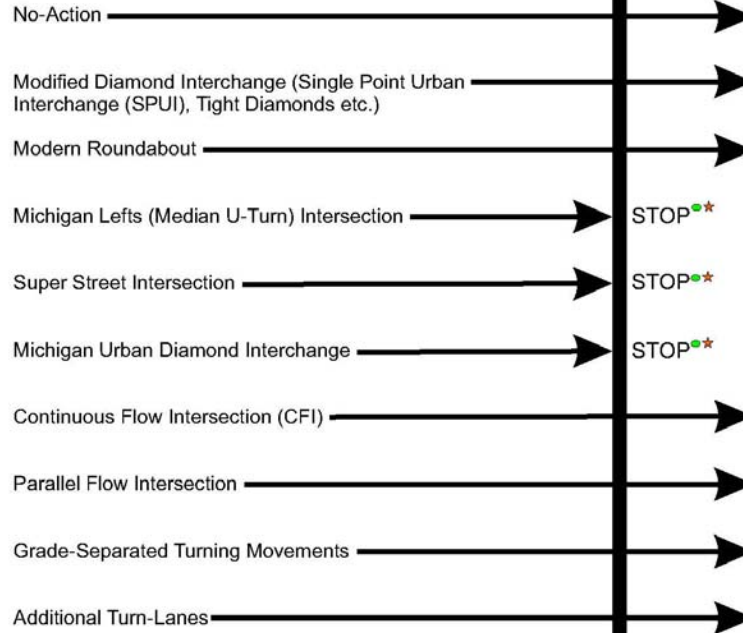
- Regional Mobility
- Local Access/Deficiencies
- ◆ Pedestrian/Bicycle Mobility
- ★ Community Values
- ▲ Safety

Alternatives Evaluation Summary

Intersection Improvement Options

Intersection Improvement Options

Algonquin Road Options



We Are Here



Functional Evaluation

Comparative Evaluation

Detailed Evaluation

Note:

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Option does not satisfy evaluation criteria developed for the following needs:

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- ◆ Pedestrian/Bicycle Mobility
- ★ Community Values
- ▲ Safety

Figure - X, Page 2 of 5
Intersection Improvement Options
Alternatives Evaluation Summary
Randall Road Improvements Study



Alternatives Evaluation Summary

Intersection Improvement Options

We Are Here



Functional
Evaluation

Comparative
Evaluation

Detailed
Evaluation

Intersection Improvement Options

Bunker Hill Road / Huntington Road Options

- No-Action →
- Exclusive Right-Turn Only Lanes →
- Add Turn Lanes Along Huntington Drive →
- Eliminate Access →

Stonegate Drive Options

- No-Action →
- Right-in Right-out Facility →
- Grade-Separated →
- Install a Traffic Signal →
- Eliminate Access →

Note:

STOP - Indicates that the option will not continue in the evaluation process and is eliminated from further study

Option does not satisfy evaluation criteria developed for the following needs:

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- Local Access/Deficiencies
- ◆ Pedestrian/Bicycle Mobility
- ★ Community Values
- ▲ Safety

Figure - X, Page 3 of 5
Intersection Improvement Options
Alternatives Evaluation Summary
Randall Road Improvements Study



Alternatives Evaluation Summary

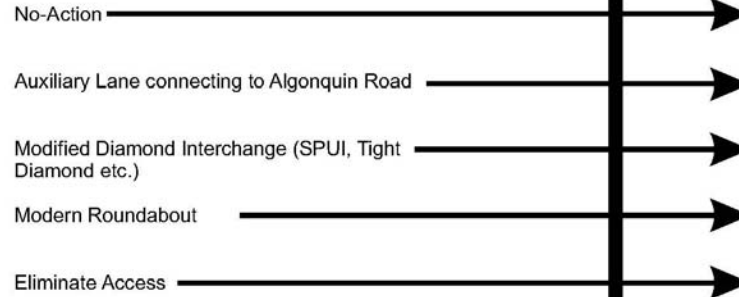
Intersection Improvement Options

We Are Here

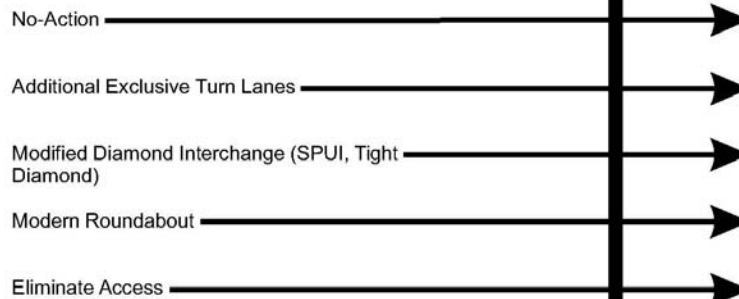


Intersection Improvement Options

Acorn Lane / Polaris Drive Options



Miller Road Options



Note:

STOP - Indicates that the option will not continue in the evaluation process and is eliminated from further study

Option does not satisfy evaluation criteria developed for the following needs:

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- ▲ Safety

Figure - X, Page 4 of 5
Intersection Improvement Options
Alternatives Evaluation Summary
Randall Road Improvements Study



Alternatives Evaluation Summary

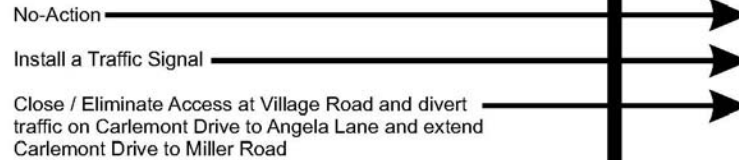
Intersection Improvement Options

We Are Here

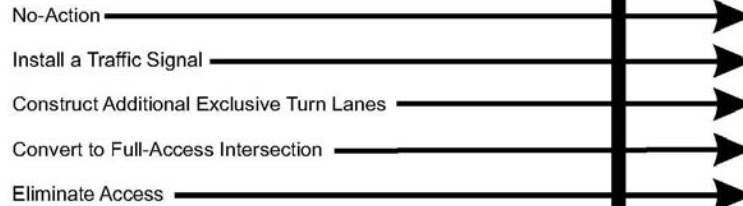


Intersection Improvement Options

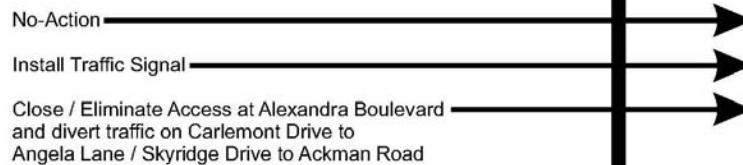
Village Road Options



Angela Lane Options



Alexandra Boulevard Options



Functional Evaluation

Comparative Evaluation

Detailed Evaluation

Note:

STOP - Indicates that the option will not continue in the evaluation process and is eliminated from further study

Option does not satisfy evaluation criteria developed for the following needs:

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- Local Access/Deficiencies
- ▲ Pedestrian/Bicycle Mobility
- ★ Community Values
- ▲ Safety

Figure - X, Page 5 of 5
Intersection Improvement Options
Alternatives Evaluation Summary
Randall Road Improvements Study





Eval. Results: Pedestrian/ Bicycle Improvement Options

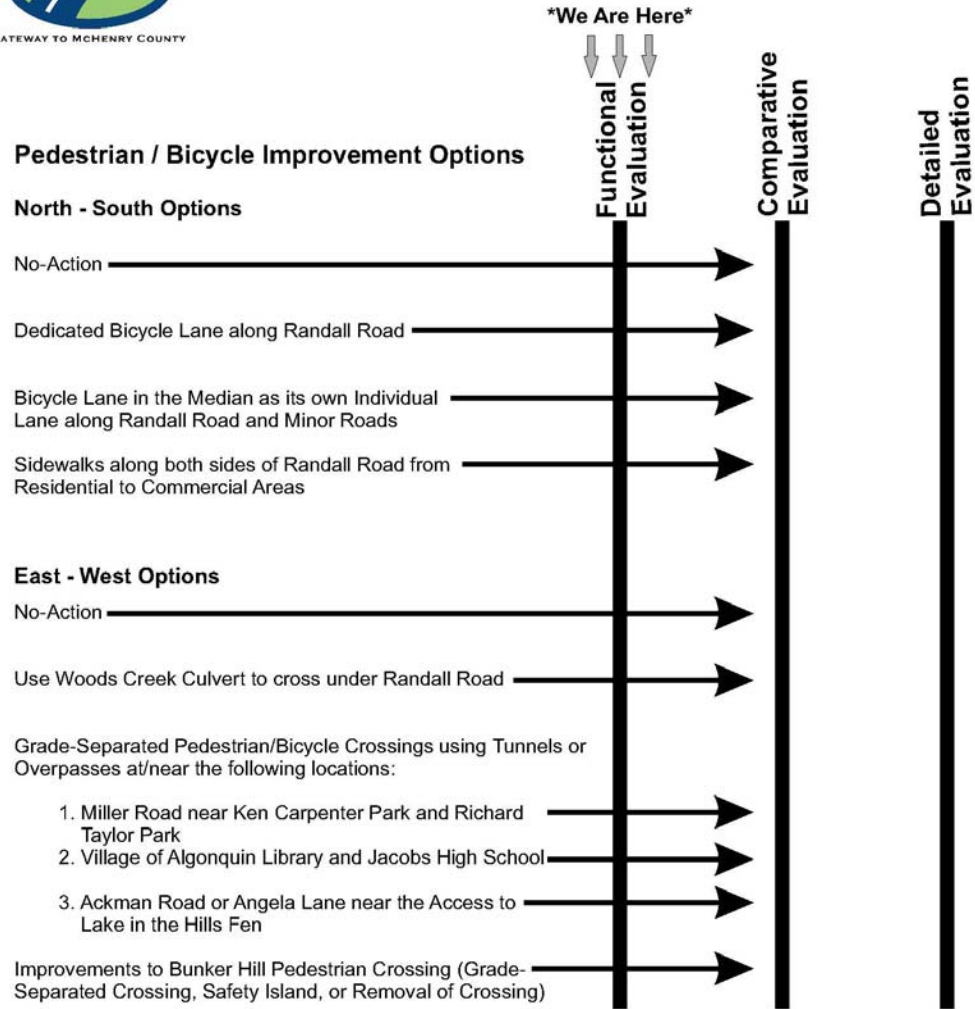
- No Options Eliminated
- Comparative Evaluation will analyze 3 Pedestrian/Bicycle categories:
 - North-South
 - East-West
 - Other



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Alternatives Evaluation Summary

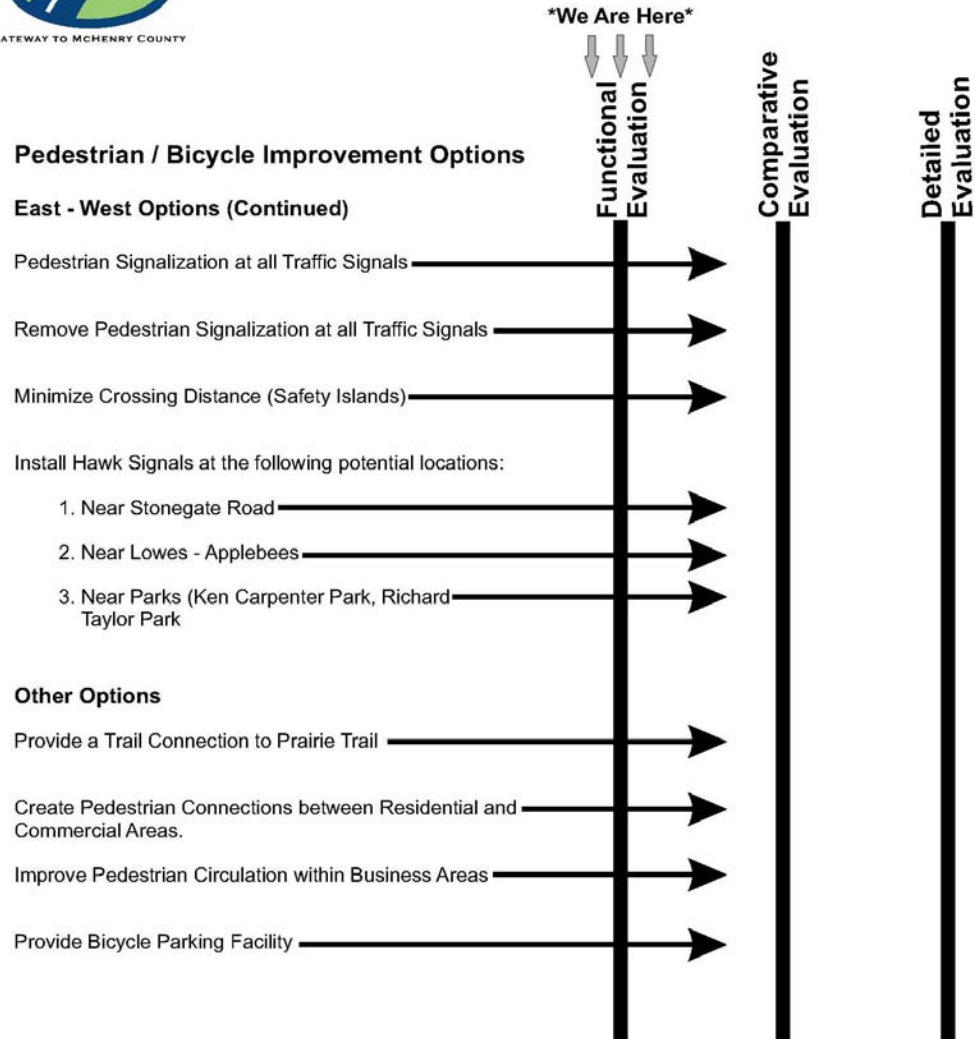
Pedestrian / Bicycle Improvement Options



Note:
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- Local Access/Deficiencies
- ⬢ Pedestrian/Bicycle Mobility
- ★ Community Values
- ▲ Safety



Note:
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- ▲ Pedestrian/Bicycle Mobility
- ★ Community Values
- ▲ Safety



Evaluation Results: CMS Improvement Options

- No Options Eliminated
- No stand alone options identified that address the Purpose and Need
- Support Toolbox Developed – options within the toolbox to be evaluated with the Preferred Alternative



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Focus of CAC Meeting #7

- Begin to screen options through Level 2:
Comparative Evaluation
 - Identifies feasible options that best address the Purpose and Needs
 - Focuses on Traffic Operations, Right-of-Way impacts, Environmental Impacts, Cost, etc.
- Future Traffic Projections will be presented
- More detailed look at Sensitive Environmental Features along Randall Road





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Questions or Comments?

- **Next CAC Meeting (#7) - Postponed**
- Same Location?
- Please sign-in if have not done so
- Please leave nametags behind for reuse at next meeting



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