

SKEEP OMAHA MOVING

205TH ST & CUMBERLAND DR TRAFFIC STUDY

PROPERTY OWNER OUTREACH MEETING

September 2, 2021

PROJECT/MEETING PURPOSE

Project Purpose

 Improve Operations and Safety at 205th Street/Cumberland Drive Intersection without Negatively Impacting the Adjacent Street Network.

Meeting Purpose

- Report Project Progress
- Engage Property Owners
 - Identify Issues/Concerns
 - Feedback on Alternatives

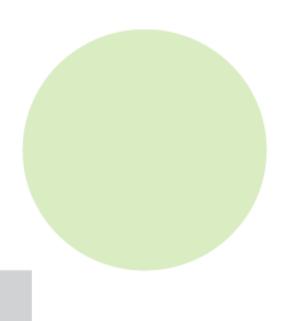


PROJECT AREA





EFFORTS TO DATE



Data Collection

Traffic Counts Crash Data Area Development

Existing Conditions Analysis

Traffic Operations and Queues Crash Review

Traffic Forecasts

Short Term (Next 5 years) Long Term (Full Area Buildout)

Alternatives Development
 Interim

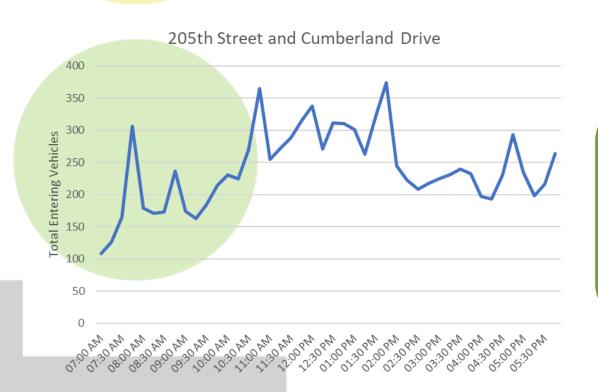
Full Buildout

Alternatives Analysis

Traffic Simulations



EXISTING CONDITIONS (WEEKDAY TRAFFIC PATTERNS)

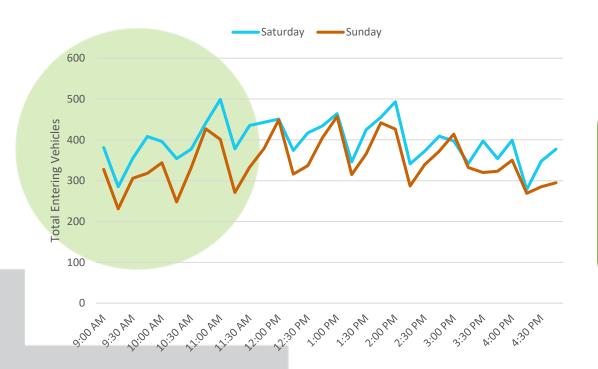


- 1:00 PM to 2:00 PM
- 11:45 AM to 12:45 AM
- 4:30 PM to 5:30 PM
- 7:45 AM to 8:45 AM

Weekday = 13,882 vehicles



EXISTING CONDITIONS (WEEKEND TRAFFIC PATTERNS)

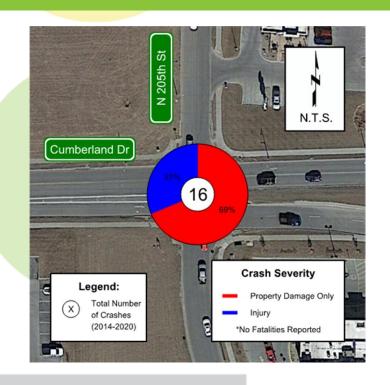


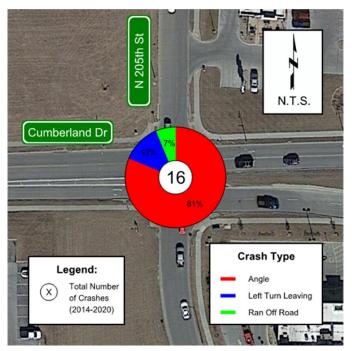
- 11:00 AM to 12:00 PM
- 1:00 PM to 2:00 PM

Entering Daily Traffic



EXISTING CONDITIONS (CRASH PATTERNS)







EXISTING CONDITIONS (OPERATIONS)



- 1 Closely Spaced Intersections
- Challenging Operations at NB and SB 205th Street Approaches
- Extensive Queueing at EB 204th Street Approach
- Challenging Operations at NB Dual Lefts (205th Street Approach)
- Lane Choice Challenges for NB to WB Movements
- Multiple Access Points with Limited Spacing





FUTURE TRAFFIC (DEVELOPMENT)



Recent Construction

Near Term Construction

Long Term Construction



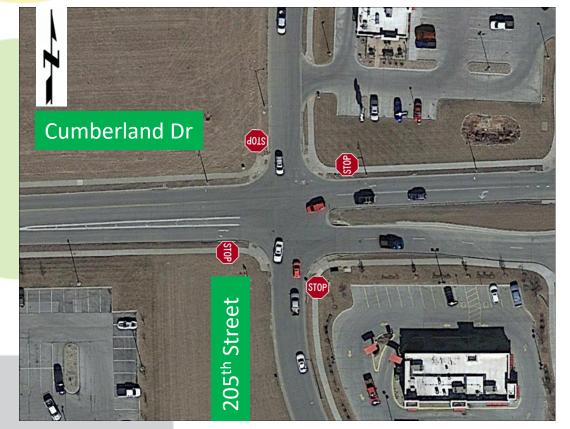
FUTURE CONDITIONS (OPERATIONS)



- Increased Congestion at WBL 205th Street Approach
- Continued Challenging Operations at NB and SB 205th Street Approaches
- Increased Queues at EB 204th Street Approach
- Challenging Operations at EB Left (204th Street Approach)



ALTERNATIVES (ALL WAY STOP CONTROL - INTERIM)





ALTERNATIVES (SIGNAL - OPTION 1)



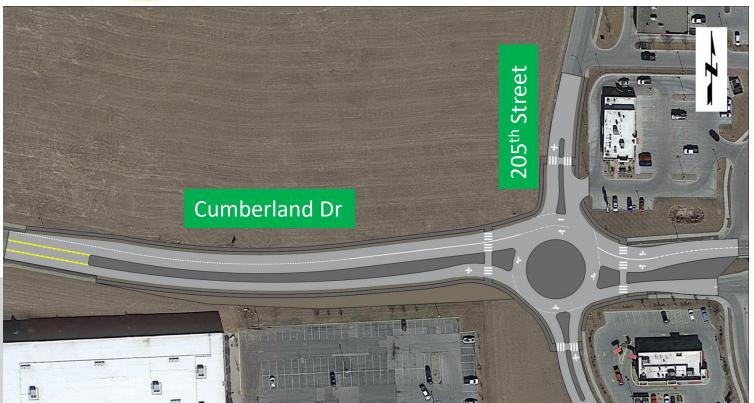


ALTERNATIVES (SIGNAL - OPTION 2)





ALTERNATIVES (ROUNDABOUT - OPTION 1)





ALTERNATIVES (ROUNDABOUT - OPTION 2)





(ALL WAY STOP CONTROL - INTERIM WEEKEND PEAK)



- Significant Delay and Queues EB at 205th Street
- WB Queues at 205th St Extend to 204th Street
- SB Right-Turn Queues Extend into Through Lane
- NB Left-Turn Queues Extend into Through Lane
- SB Movements on 204th Ave Cannot Enter Cumberland
- NB Movements at 205th and 204th Ave are Improved



(SIGNAL OPTION 1 - FUTURE WEEKEND PEAK)



- Less Delay and Queues EB at 205th Street than Roundabout Option 1
- At times WB Queues Will Extend to 204th Street
- Delays and Queueing are Increased on 205th Street Compared to both Roundabouts
- Side Street at 204th Ave and 205th St are Improved Compared to No Build
 - At Times EB Queues at 204th Street Almost Reach 205th Street



(SIGNAL OPTION 2 – FUTURE WEEKEND PEAK)



- EB Operates Slightly Worse than Signal Option 1 with Greater Delays and Queues
- WB Queues Still Extend to 204th Street
- Delays and Queueing are Increased on 204th Street Compared to Roundabout Options
- Side Street Delays at 204th Ave and 205th St are Improved over Signal Option 1
- EB Queues at 204th Street At Times Almost Reach 205th Street



(ROUNDABOUT OPTION 1 – FUTURE WEEKEND PEAK)



- EB Operates with Greatest Delays and Queues Compared to All Other Options
- Queues Between 204th and 205th are Much Less Than Signal Options
- Minimal Operational Impact to 204th Street
- Metering of EB Traffic Allows NB
 Side Street Traffic to Enter
 Cumberland



(ROUNDABOUT OPTION 2 – FUTURE WEEKEND PEAK)



- EB Operates with Less Delays and Queues than Small Footprint Options
- Queues Between 204th and 205th are Much Less than Signal Options
- Greater EB Throughput Increases
 Delays and Queues on at NB 204th
 Avenue and 205th Street
 Intersection



ALTERNATIVES COMPARISON

	No Build Alternative	Signal Option 1 (Small Footprint)	Signal Option 2 (Large Footprint)	Roundabout Option 1 (Small Footprint)	Roundabout Option 2 (Large Footprint)
Area Traffic Operations	0		0	0	
Safety	0			0	0
Property and Right-of-Way	0	0			
Constructability	0	O	C		
Cost	0	0			•



Negative Impact



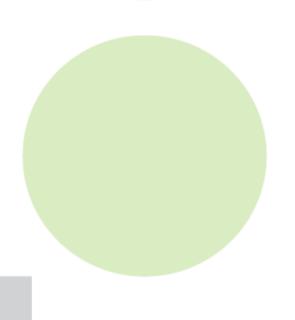
Neutral Impact



Positive Impact



NEXT STEPS

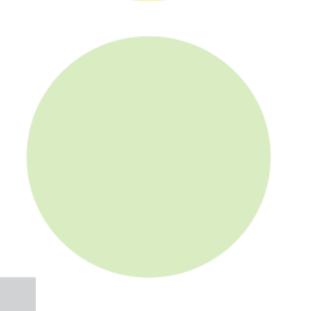


Finalize Alternatives Analysis
 Cost Estimates
 Rank Alternatives

- Summarize Property Owner Feedback
- Traffic Study Report
 Draft and Final (August-September)
- Determine Funding Sources
- Design/Construction



PROJECT WEBSITE & CONTACT



 https://www.keepomahamoving.com/proj ects/205th-street-cumberland-drive-trafficstudy

If you have questions, please contact:

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DISCUSSION & QUESTIONS

