

N Street Protected Cycle Track

Lincoln, Nebraska

Presented By:

Justin Petersen
Olsson Associates

Mark Lutjeharms
City of Lincoln



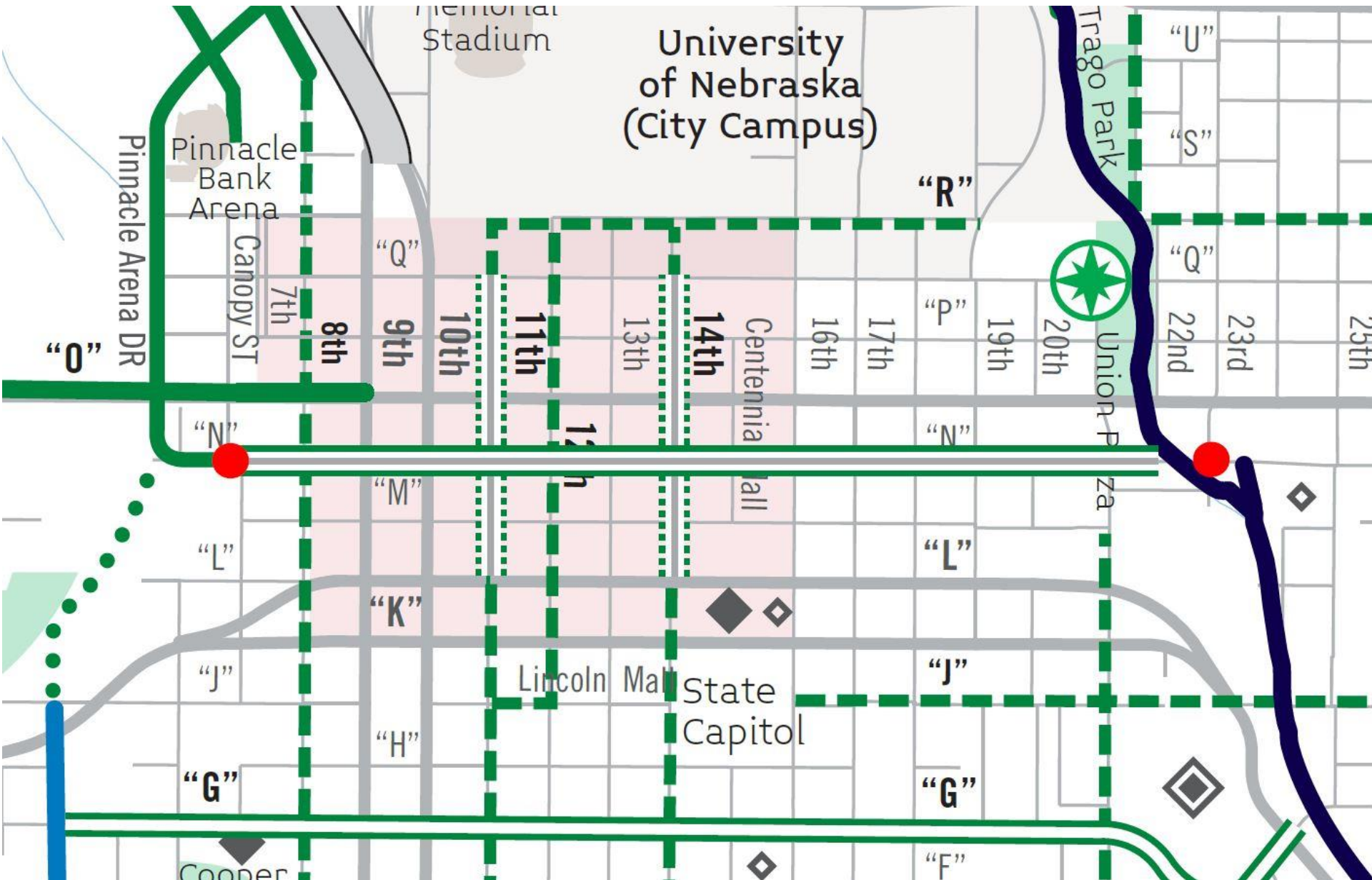
Identified in
2012
Downtown
Master Plan
Update as
the “last
mile” of bike
trails

East/West
connection
between Billy
Wolff Trail
and new
West
Haymarket
on either end
of downtown

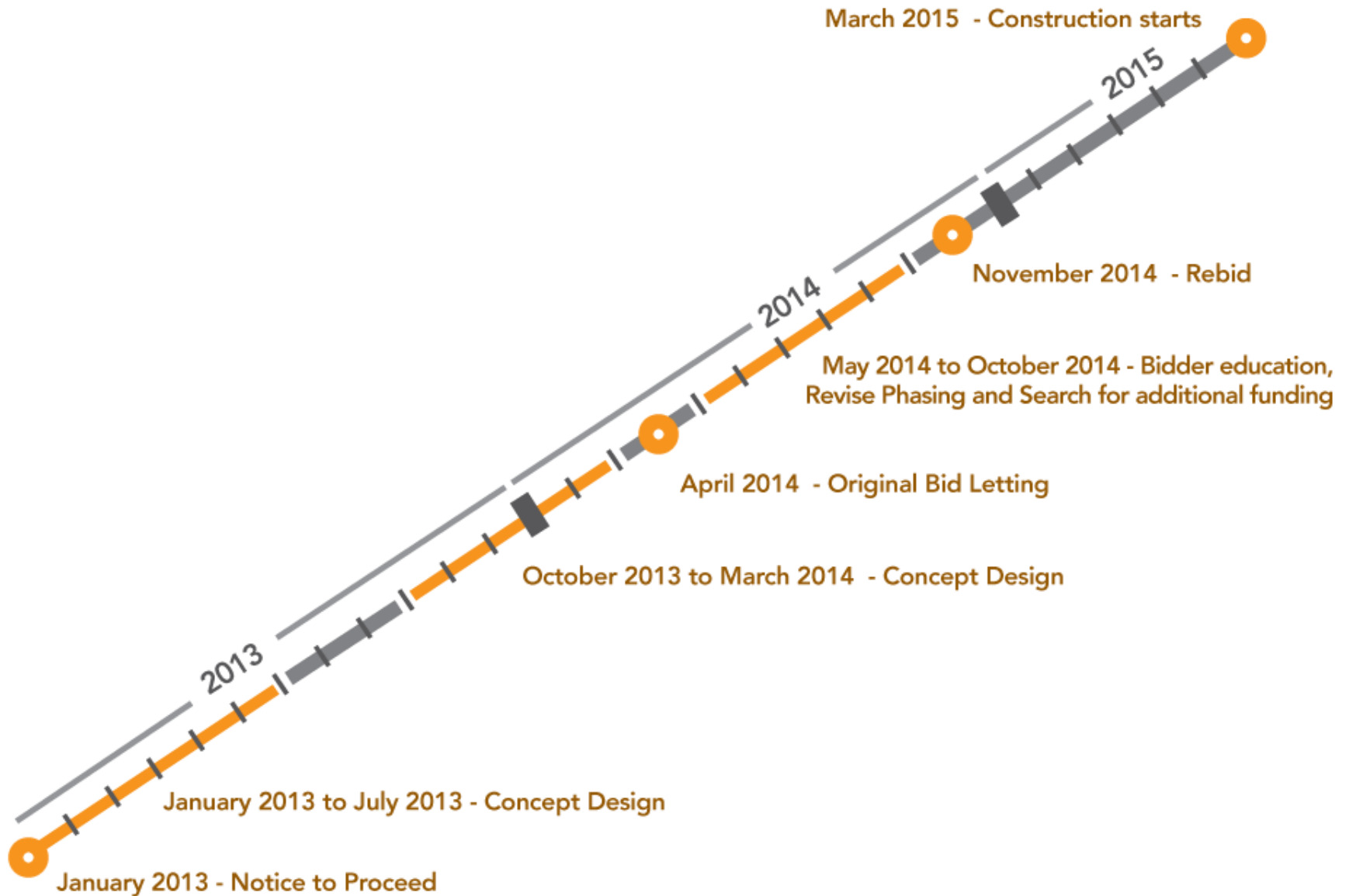
Nebraska’s
first Cycle
Track

Strong
support from
Mayor’s
Office but
plenty of
doubters

“Last Mile Connection”



Project Timeline





- Key Design Considerations
- Parking Impacts
- Traffic Signals and Timings
- Pavement Marking and Signing
- Drainage and Streetscape



Key Design Considerations



Key Design Considerations



Key Design Considerations



Key Design Considerations



Key Design Considerations



Parking Impacts



- Aging traffic signal infrastructure
- Lack of Capacity
 - Cabinets
 - Conduits
- Head Relocations
- New/Relocated Poles
- Balance Need vs. Cost



Traffic Signals and Timing





- Exclusive bicycle phasing required at all intersections with potential vehicle/bicycle turning conflicts
- Cycle track detection
- No turn on RED
- Separate bike heads from vehicular and pedestrian heads

Pavement Marking and Signing



Pavement Marking and Signing



KEEP
LEFT RIGHT



TURNING
VEHICLES



STOP FOR



LEFT TURNS
MUST USE
TURN BOX

Drainage and Streetscape



Official opening: April 23, 2016



No Motorized Vehicles...or so we thought



Driver fined for leaving scene of crash with bike lane barrier

No Motorized Vehicles...or so we thought

2016-Sep-21 08:24:20.527 AM

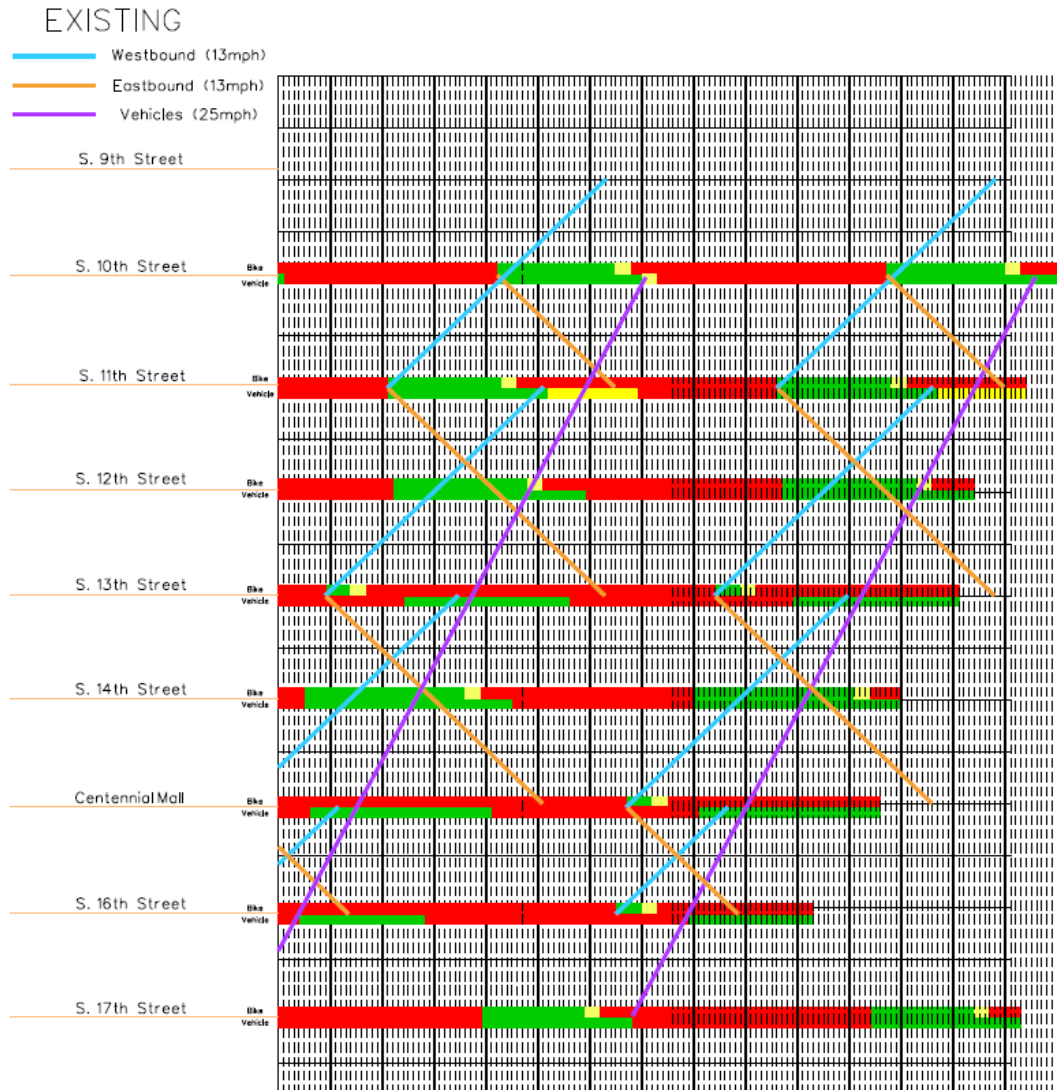


“Stop Sticks”

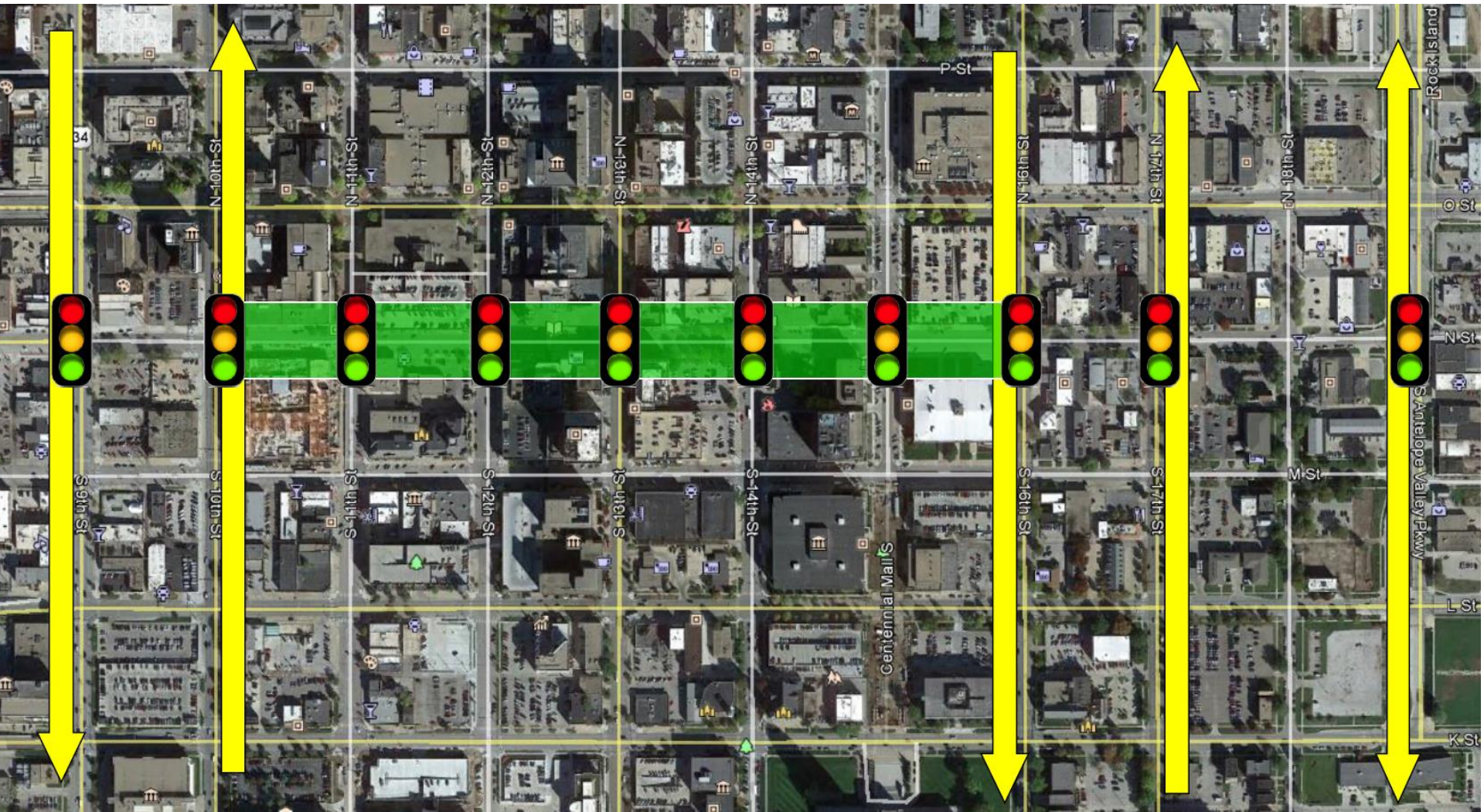


Signal Timing Priority

“...the timing for bicyclists is not very good, and never has been. Even for medium level ability, it would be faster to be on the street with the cars. Because of this, many bicyclists tend to use the light when it's convenient, run red lights, and/or transition often between the street and sidewalks. None of these seem very safe for all involved.”



Signal Timing Priority



Signal Timing Priority

“What a dramatic improvement! Congrats to all involved. I plan to urge your illustrious Director, Ms Esposito, to talk about this next week at City Council. It’s an example of the great work being done every day in PWU to increase efficiency and improve service.”

~Mayor’s Chief of Staff

“As someone who has been riding this trail to work and home (whenever its under 95 degrees!) I have noticed a big difference and want to tell you and your staff that I appreciate all the extra effort you have made to make this a more enjoyable and quicker experience.”

~Parks & Rec staff

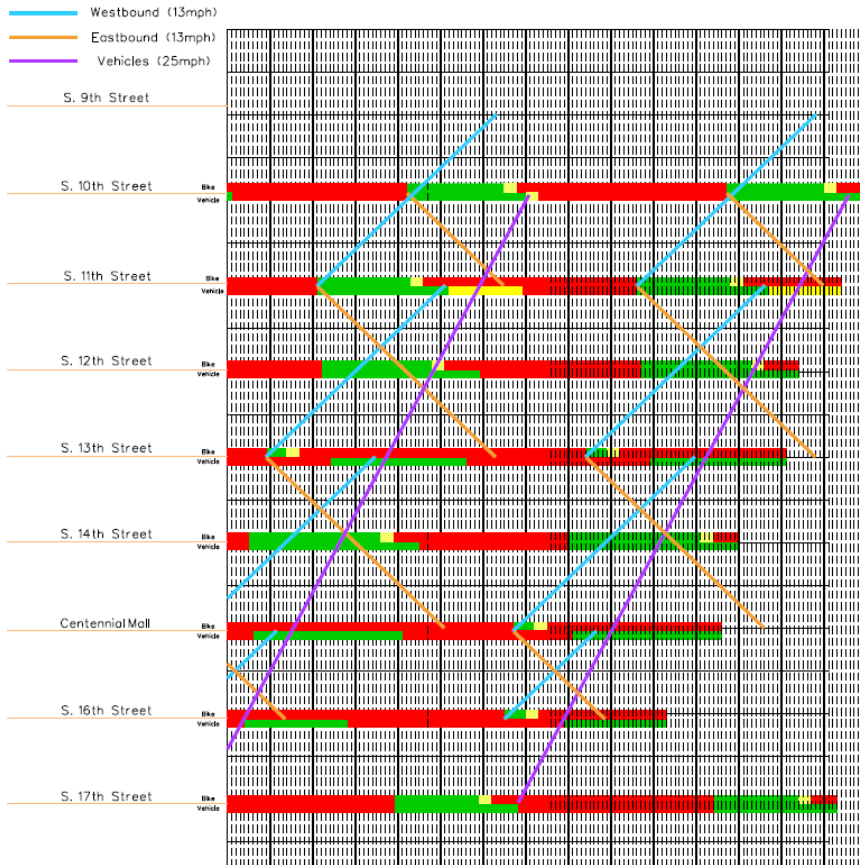
“I rode it last week and noticed a significant improvement as well. I appreciate the effort you and staff have made.”

~Chair, PBAC

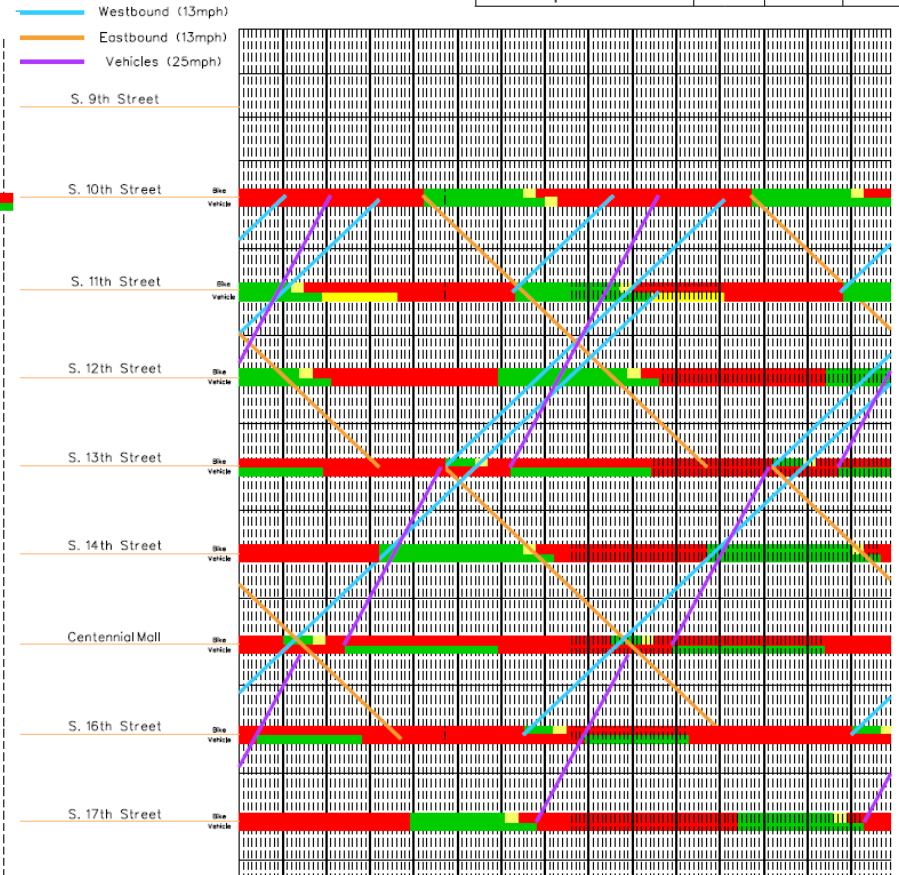
Signal Timing Priority

WESTBOUND	Before	After; Scenario	
		1	2
From a Stop at 16 th Street	-	-	-
Centennial Mall	Stop	Green	Green
14 th Street	Green	Green	Green
13 th Street	Stop	Green	Stop
12 th Street	Green	Green	Green
11 th Street	Stop	Stop	Green
10 th Street	Stop	Stop	Stop
Total Stops	4	2	2

Before



After







PSAs

CITY OF LINCOLN NEBRASKA Bike Lincoln

Home
 N Street Cycle Track →
 Bike Safety
 Bike Share
 Bike to Work
 Complete Streets
 Get Biking
 Plan Your Trip
 Programs, Events & Education
 Resources
 Trail Counts
 About

N Street Cycle Track Grand Opening Celebration

April 23, 2016

The N Street Cycle Track is the state's first protected bikeway. The cycle track provides a connection from the Arena and West Haymarket to the Antelope Valley Trails, a critical link in the City's 128-mile trail network. The cycle track runs for 17 blocks along the south side of "N" Street from 23rd Street to Arena Drive.

"Lincoln is very excited to be the home of Nebraska's first cycle track," Mayor Chris Beutler said. "The separation of bikes and motor vehicles provides an extra measure of safety. But, it's very important for the public to learn how to navigate this stretch of "N" Street, which includes traffic control devices at every intersection for cyclists, motorists and pedestrians. In addition to providing important trail connections, the cycle track promotes healthy living and contributes to the livability, excitement and vibrancy of our 21st century city," Beutler said.

Mayor Beutler officially opened the "N" Street Cycle Track on April 23, 2016.

- Signal Timing Update on N Street Cycle Track
- New bikeway connects UNL, downtown to community trails - UNL Today news article
- Information on Flashing Yellow Arrows
- Informational Flyer on N Street Cycle Track
- Grand Opening Celebration of the N Street Cycle Track
- Get more information from the Downtown Lincoln Association
- Check out 10 Health on YouTube: Shape of the City - Bike Projects

N Street Cycle Track (Educational Video)

News Conference: Learn About the N...

N Street Cycle Track PSA 1 (General I...)

N Street Cycle Track PSA 3 (Safety)

lincoln.ne.gov (keyword: N Street)

Suggested by 10HealthLincoln
 1:03 | Malone Community Center encourages everyo...

Post-Construction Activities



Post-Construction Activities



Questions?



American Council
of Engineering
Companies
(ACEC)

**NEBRASKA
HONOR AWARD**
(TRANSPORTATION)