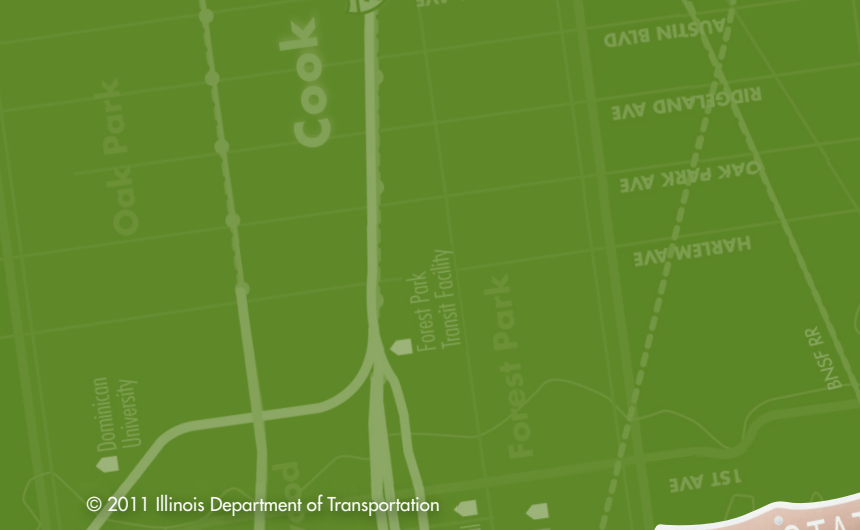


Initial Alternatives Identification and Evaluation Report

November 2011

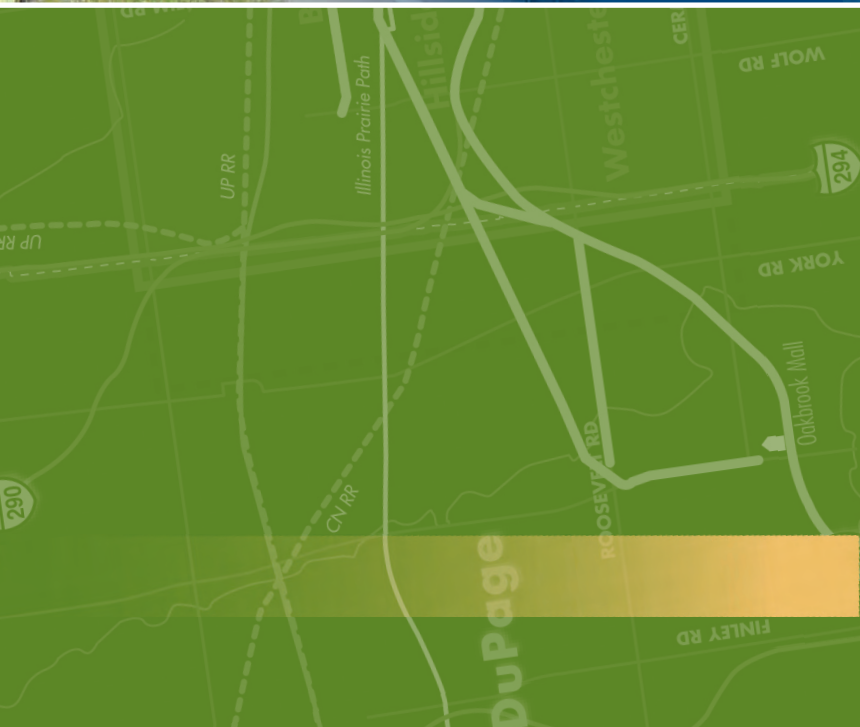
**APPENDIX C**

Initial Single Mode Alternatives



# I-290 PHASE I STUDY

## Round 1 Alternatives Descriptions

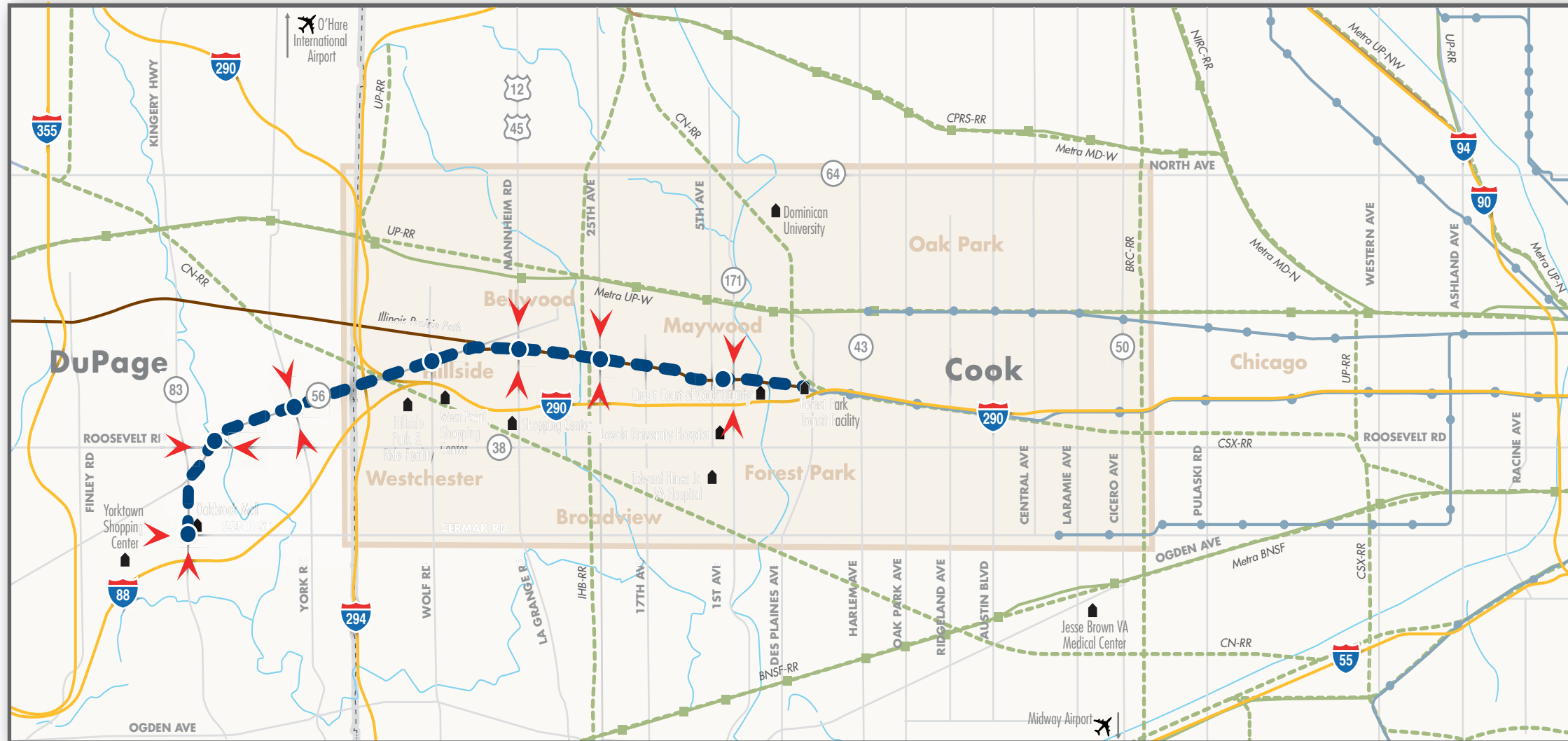




# Blue Line Prairie Path > Blue Line Extension from Forest Park CTA Terminal to Oak Brook

ID: HRT 1

Heavy Rail Transit (HRT)



**Legend**

- Interstate
- Metra Line/Station
- Existing CTA Rail /Station Access
- IL Prairie Path Multi-Use Trail
- Railroad
- I-290 Study Area
- County Boundary
- River

**Alternative**

- Elevated Guideway
- New Stations
- Bus Service Enhancements

N

*\*Not to scale*

### DESCRIPTION:

- > Elevated CTA Blue Line extension via Illinois Prairie Path and Butterfield Road (IL 56).
- > 7.6 miles

### TRANSIT SERVICE ENHANCEMENTS:

- > Added 7 New Blue Line stations: 22nd Street, Roosevelt Road, York Road, Wolf Road, Mannheim Road, 25th Avenue and 1st Avenue.

### TRANSIT SERVICE ENHANCEMENTS: (con't)

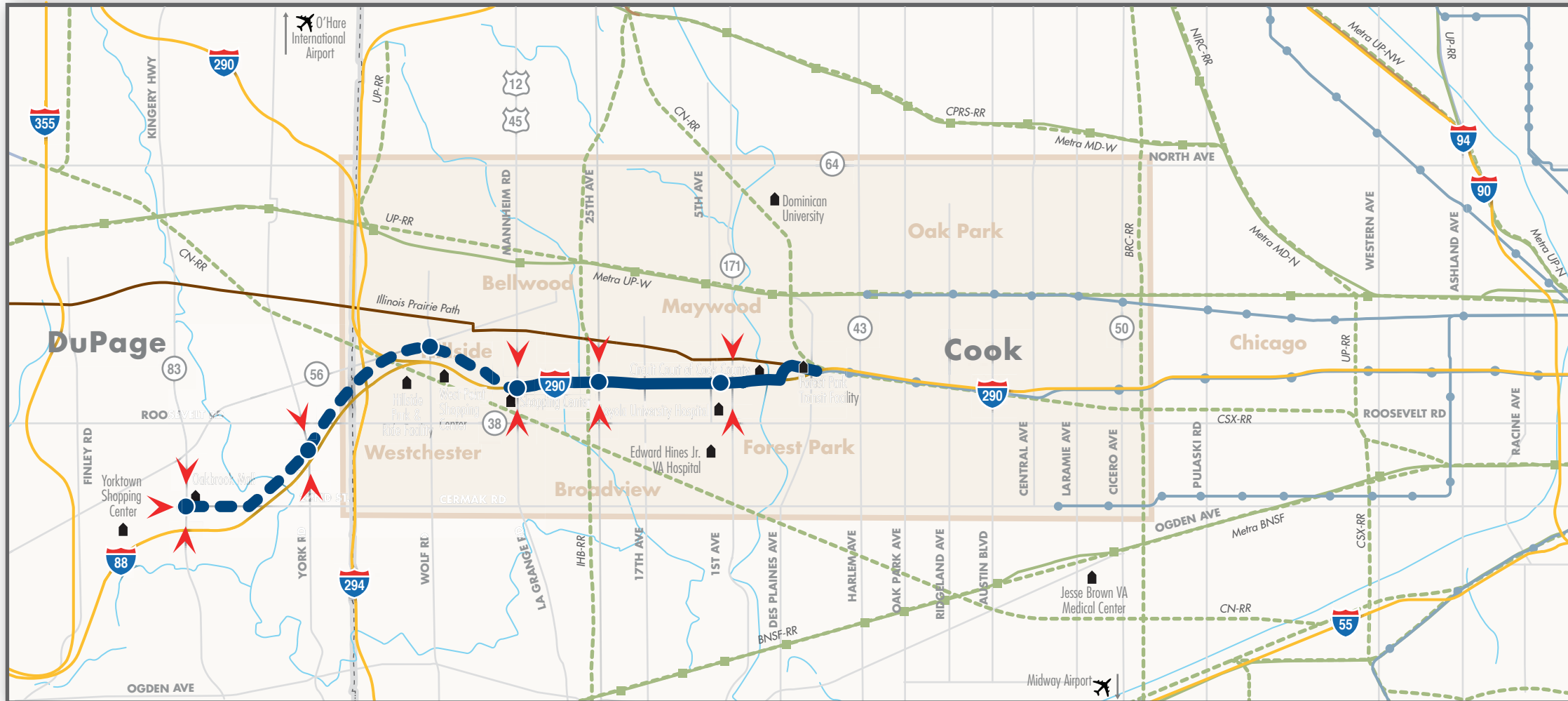
- > Added 11 new stops at new stations on routes: CTA Bus Route #17, Pace Bus Routes # 301, #310, #317, #325, #330, #331, #332, #747, #877, and #888.
- > Rerouted Pace Bus Route #331 from 5th Avenue to 1st Avenue station.
- > Truncated Pace Bus Route #747 to new station at York Road.
- > Optimized 2 existing Pace express bus routes to provide express shuttle service: #877 and #888.
- > Included future Pace Bus Route art89 along Cermack Road (Yorktown to CTA Pink Line) and Pace feeder bus route on Roosevelt Road to Roosevelt Station.



# Blue Line I-290 > Blue Line Extension from Forest Park CTA Terminal to Oak Brook

ID: HRT 2

Heavy Rail Transit (HRT)



### Legend

- Interstate
- Metra Line/Station
- Existing CTA Rail /Station Access
- IL Prairie Path Multi-Use Trail
- Railroad
- I-290 Study Area
- County Boundary
- River

### Alternative

- At-Grade
- Elevated Guideway
- New Stations
- Bus Service Enhancements

N

*\*Not to scale*

## DESCRIPTION:

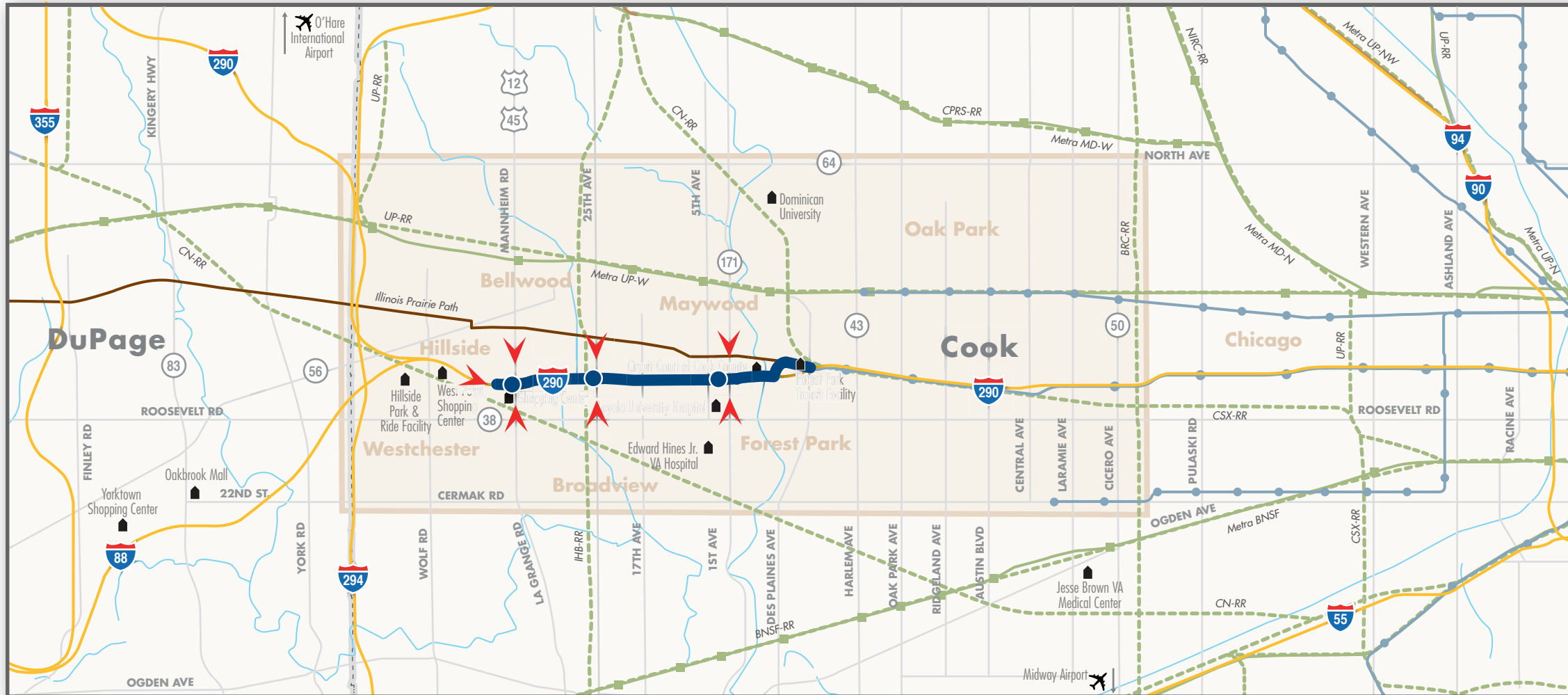
- > Via I-290 median (at-grade) from CTA Forest Park Terminal to Mannheim Road.
- > Adjacent to I-290 (elevated), adjacent to I-88 (elevated), and adjacent 22nd Street (elevated) from Mannheim Road to Oak Brook (IL 83).
- > 8 miles

## TRANSIT SERVICE ENHANCEMENTS:

- > Added 6 New Blue Line stations: 22nd Street, York Road, Wolf Road, Mannheim Road, 25th Avenue and 1st Avenue.

## TRANSIT SERVICE ENHANCEMENTS: (con't)

- > Added 12 new stops at new stations on routes: CTA Bus Route #17, Pace Bus Routes # 301, #310, #317, #325, #330, #331, #332, #747, #757, #877, and #888.
- > Rerouted existing Pace Bus Route #331 from 5th Avenue to 1st Avenue station.
- > Truncated 3 existing bus routes to new terminal stop: #391 and #757 to Wolf Road station and #747 to York Road station.
- > Optimized 2 existing Pace express bus routes to provide express shuttle service: #877 and #888.
- > Included future Pace Bus Route art89 along Cermak Road (Yorktown to CTA Pink Line).



**Legend**

- Interstate
- Metra Line/Station
- Existing CTA Rail /Station Access
- IL Prairie Path Multi-Use Trail
- Railroad
- I-290 Study Area
- County Boundary
- River

**Alternative**

- At-Grade
- New Stations
- Bus Service Enhancements

N

*\*Not to scale*

**DESCRIPTION:**

- > Via I-290 Median (at-Grade) from CTA Forest Park terminal to Mannheim Road.
- > 3.5 miles

**TRANSIT SERVICE ENHANCEMENTS:**

- > Added 3 New Blue Line Stations: Mannheim Road, 25th Avenue and 1st Avenue.
- > Added 10 new stops at new stations on routes: CTA Bus Route #17, Pace Bus Routes #317, #325, #330, #331, #391, #747, #757, #877, and #888.

**TRANSIT SERVICE ENHANCEMENTS: (con't)**

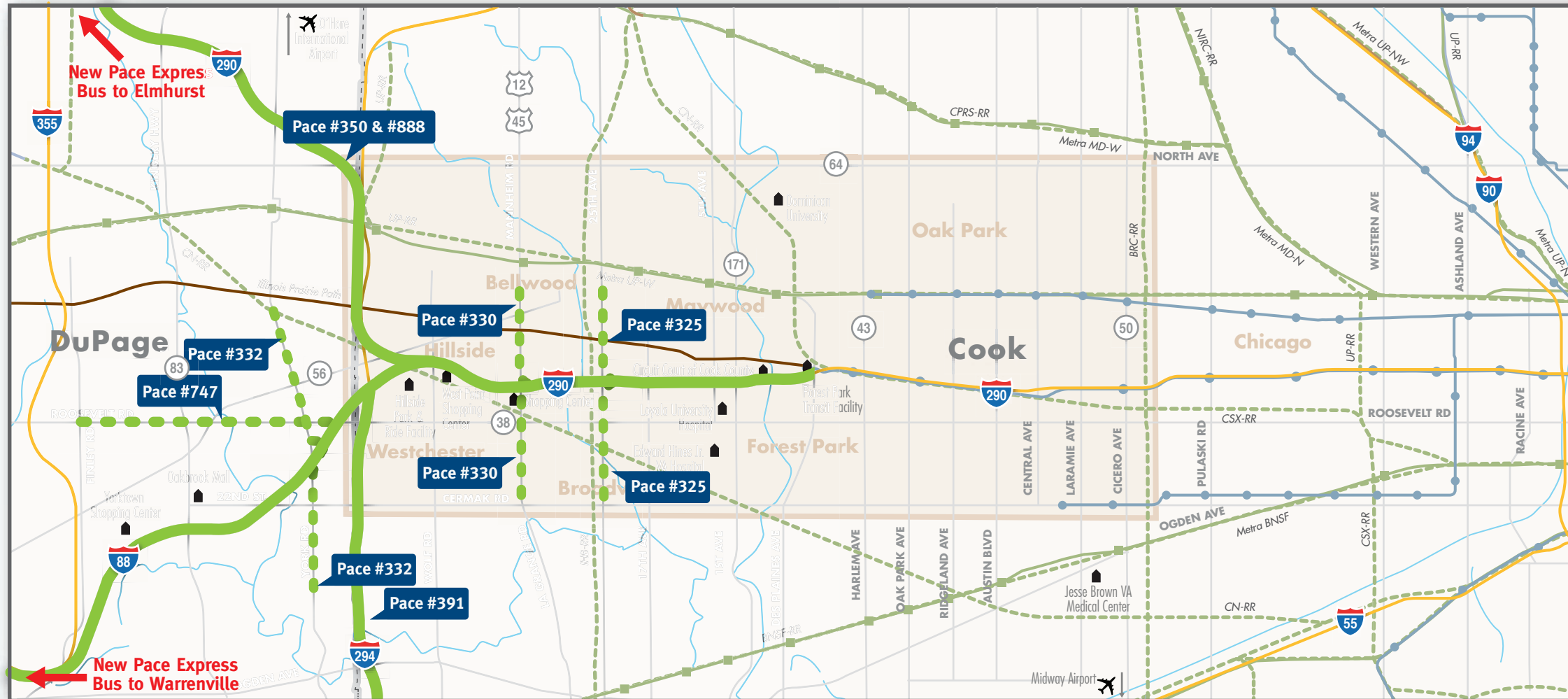
- > Rerouted existing Pace Bus Route #331 from 5th Avenue to 1st Avenue station.
- > Truncated 6 existing bus routes to new terminal stop: #317, #391, #747, #757, #877 and #888 to Mannheim station.
- > Optimized 2 existing Pace express bus routes to provide express shuttle service: #877 and #888
- > Included future Pace Bus Route art89 along Cermak Road (Yorktown to CTA Pink Line)



# Express Bus > Various Destinations in DuPage and Northwestern Cook County to Forest Park

ID: EXP

Express Bus



## DESCRIPTION:

- > Existing express bus service on I-88 & I-290 to CTA Forest Park Terminal.
- > Enhanced local bus routes to run express to CTA Forest Park Terminal.

## TRANSIT SERVICE ENHANCEMENTS:

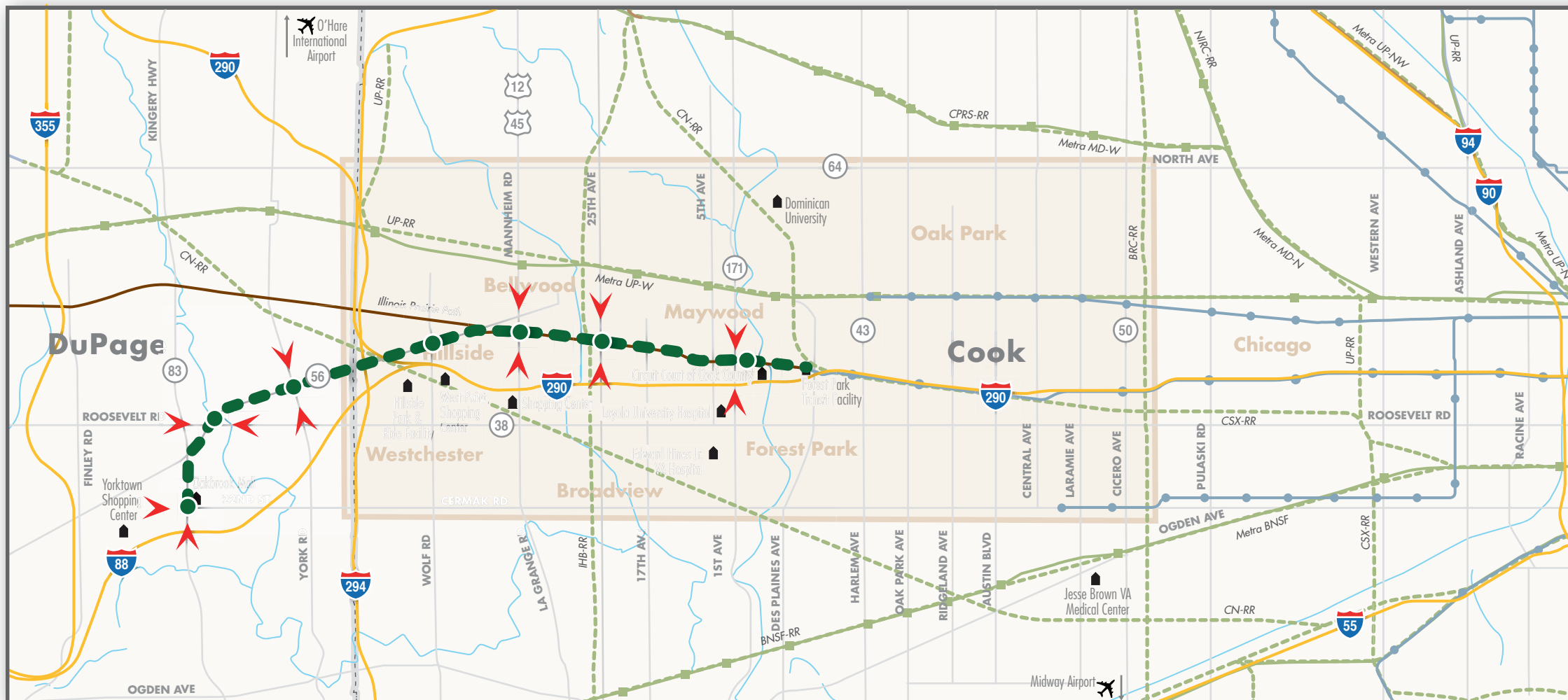
- > Optimized 8 existing local Pace bus routes to provide express service to CTA Forest Park Terminal: Pace Routes #325, #330, #332, #391, #747, #757, #877, and #888.
- > Added Pace express bus routes to connect at Hillside Park-n-ride, Yorktown Mall, Warrenville and Elmhurst to CTA Forest Park Terminal.



# BRT Prairie Path > From Oak Brook (IL 83) to Forest Park CTA Terminal

ID: BRT 1

Bus Rapid Transit (BRT)



**Legend**

- Interstate
- Metra Line/Station
- Existing CTA Rail /Station Access
- IL Prairie Path Multi-Use Trail
- Railroad
- I-290 Study Area
- County Boundary
- River

**Alternative**

- Elevated Guideway
- New Stations
- Bus Service Enhancements

### DESCRIPTION:

- > Via Butterfield Road (IL 56) and Illinois Prairie Path (elevated).
- > 7.6 miles

### TRANSIT SERVICE ENHANCEMENTS:

- > Added 7 New BRT stations: 22nd Street, Roosevelt Road, York Road, Wolf Road, Mannheim Road, 25th Avenue and 1st Avenue.

### TRANSIT SERVICE ENHANCEMENTS: (con't)

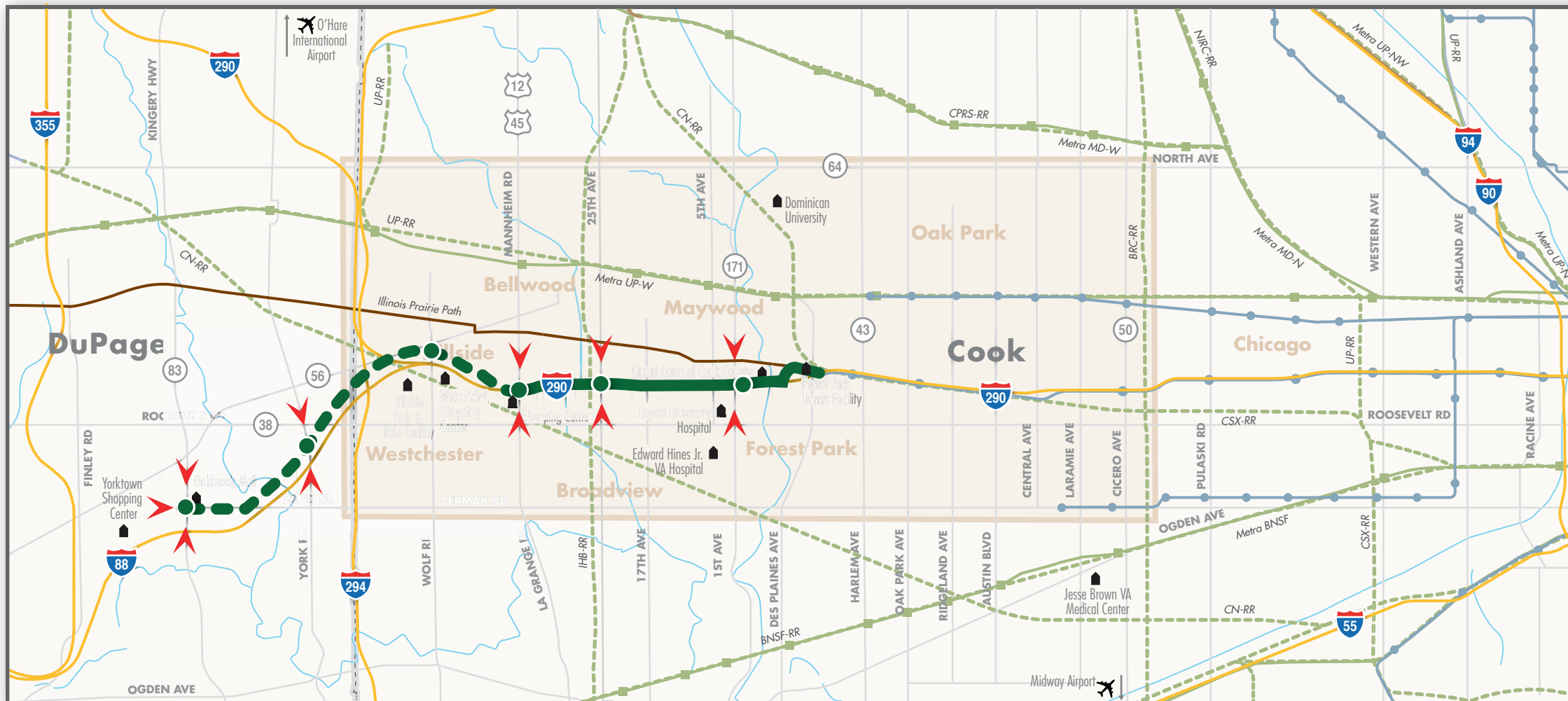
- > Added 11 new stops at new stations on routes: CTA Bus Route #17, Pace Bus Routes # 301, #310, #317, #325, #330, #331, #332, #747, #877, and #888.
- > Rerouted existing Pace Bus Route # 331 from 5th Avenue to 1st Avenue station.
- > Truncated existing Pace Bus Route #747 to new station at York Road.
- > Optimized 2 existing Pace Bus express bus routes to provide express shuttle service: #877 and #888.
- > Included future Pace Bus Route #89 along Cermak Road (Yorktown to CTA Pink Line) and Pace feeder bus route on Roosevelt Road to Roosevelt Station.



# BRT I-290 > From Oak Brook (IL 83) to Forest Park CTA Terminal

ID: BRT 2

Bus Rapid Transit (BRT)



### Legend

- Interstate
- Metra Line/Station
- Existing CTA Rail /Station Access
- IL Prairie Path Multi-Use Trail
- Railroad
- I-290 Study Area
- County Boundary
- River

### Alternative

- At-Grade
- Elevated Guideway
- New Stations
- Bus Service Enhancements

N

*\*Not to scale*

## DESCRIPTION:

- > Adjacent to 22nd Street, I-88, and I-290 from Oak Brook (IL 83) to Mannheim Road (elevated).
- > Via I-290 median from Mannheim Road to CTA Forest Park terminal.
- > 8 miles

## TRANSIT SERVICE ENHANCEMENTS:

- > Added 6 New BRT I-290 stations: 22nd Street, York Road, Wolf Road, Mannheim Road, 25th Avenue and 1st Avenue.

## TRANSIT SERVICE ENHANCEMENTS: (con't)

- > Added 12 new stops at new stations on routes: CTA Bus Route #17, Pace Bus Routes # 301, #310, #317, #325, #330, #331, #332, #747, #757, #877, and #888.
- > Rerouted existing Pace Bus Route # 331 from 5th Avenue to 1st Avenue station.
- > Truncated 3 existing Pace bus routes to new terminal stop: #391 and #757 to Wolf Road station and #747 to York Road station.
- > Optimized 2 existing Pace express bus routes to provide express shuttle service: #877 and #888.
- > Included future Pace Bus Route art89 along Cermak Road (Yorktown to CTA Pink Line).

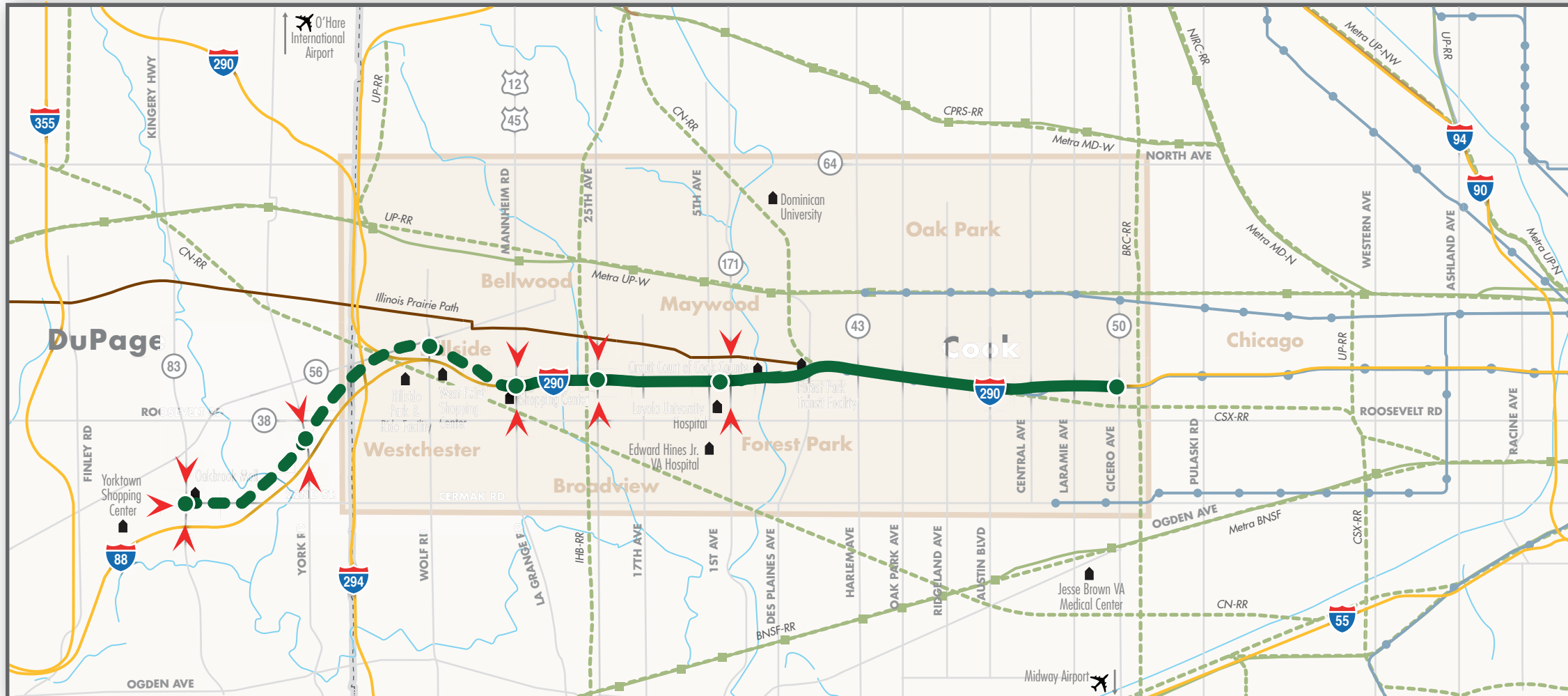




# BRT - CTA Overlap > From Oak Brook (IL 83) to Cicero Avenue

ID: BRT 3

Bus Rapid Transit (BRT)



### Legend

- Interstate
- Metra Line/Station
- Existing CTA Rail /Station Access
- IL Prairie Path Multi-Use Trail
- Railroad
- I-290 Study Area
- County Boundary
- River

### Alternative

- At-Grade
- Elevated Guideway
- New Stations
- Bus Service Enhancements

N

*\*Not to scale*

## DESCRIPTION:

- > Adjacent to 22nd, I-88 from Oak Brook to Mannheim Road (elevated).
- > Via I-290 Median from Mannheim Road to Cicero Avenue (at grade).
- > 10.5 miles

## TRANSIT SERVICE ENHANCEMENTS:

- > Added 7 New BRT I-290 Stations: 22nd Street, York Road, Wolf Road, Mannheim Road, 25th Avenue, 1st Avenue, and Cicero Avenue.

## TRANSIT SERVICE ENHANCEMENTS: (con't)

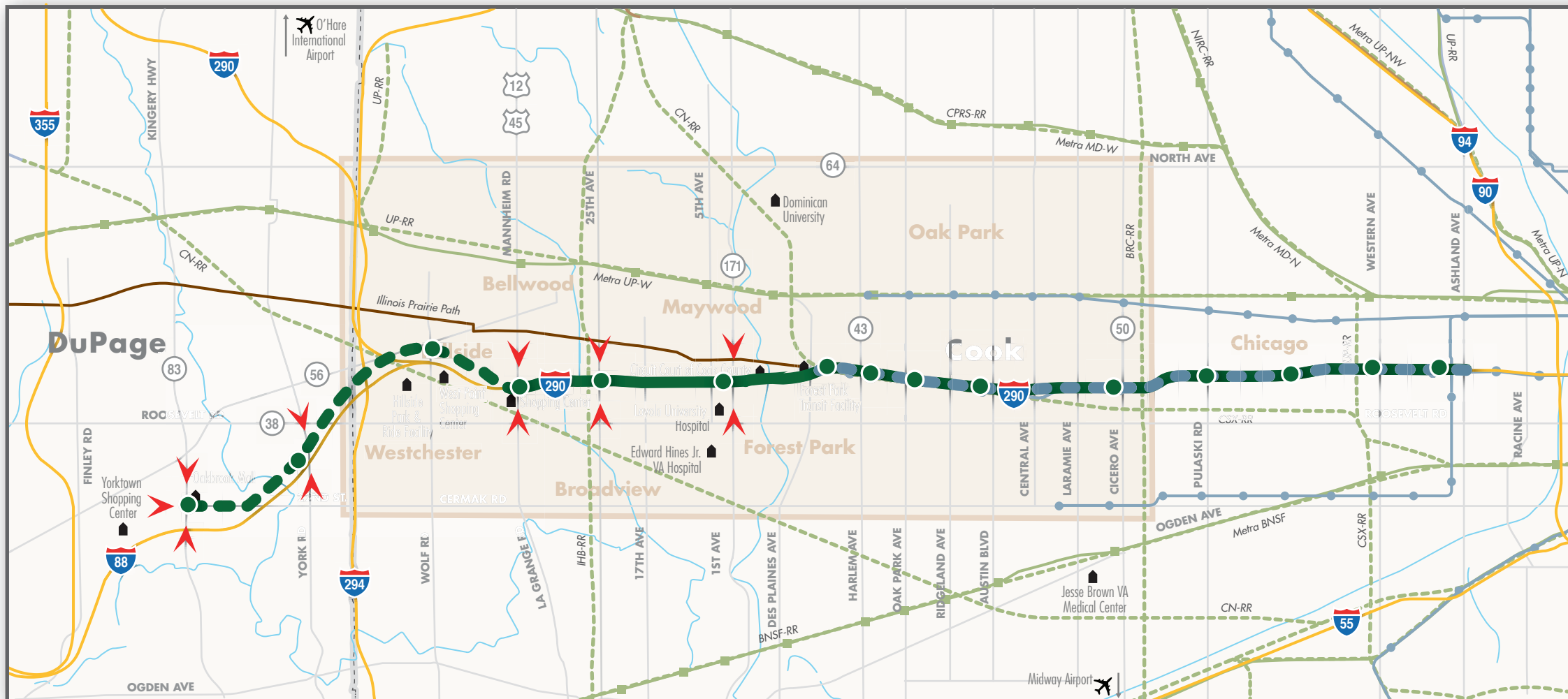
- > Added 12 new stops at new stations on routes: CTA Bus Route #17, Pace Bus Routes # 301, #310, #317, #325, #330, #331, #332, #747, #757, #877, and #888.
- > Rerouted Existing Pace Bus Route # 331 from 5th Avenue to 1st Avenue station.
- > Truncated 3 existing bus routes to new terminal stop: #391 and #757 to Wolf Road station and #747 to York Road station.
- > Optimized 2 existing Pace express bus routes to provide express shuttle service: Pace Routes #877 and #888.
- > Included future Pace Bus Route art89 along Cermak Road (Yorktown to CTA Pink Line).



# BRT – Conversion of CTA Blue line > From Oak Brook (IL 83) to Ashland Avenue

ID: BRT 4

Bus Rapid Transit (BRT)



### Legend

- Interstate
- Metra Line/Station
- Existing CTA Rail /Station Access
- IL Prairie Path Multi-Use Trail
- Railroad
- I-290 Study Area
- County Boundary
- River

### Alternative

- At-Grade
- Elevated Guideway
- BRT with CTA Blue Line Removed
- New Stations
- Bus Service Enhancements

N

*\*Not to scale*

## DESCRIPTION:

- > Adjacent to 22nd Street, I-88, I-290 from Oak Brook (IL-83) to Mannheim Road (elevated).
- > Via I-290 Median from Mannheim Road to Des Plaines Avenue (at grade).
- > Via existing CTA right-of-way from Des Plaines Avenue to Ashland Avenue (at grade, remove CTA Blue Line).
- > Alternative requested by CMAP.
- > 16.5 miles

## TRANSIT SERVICE ENHANCEMENTS:

- > Added 15 New BRT I-290 stations: 22nd Street, York Road, Wolf Road, Mannheim Road, 25th Avenue, 1st Avenue, Forest Park, Harlem, Oak Park, Austin, Cicero, Pulaski, Kedzie Homan, Western, and Illinois Medical District.

## TRANSIT SERVICE ENHANCEMENTS: (con't)

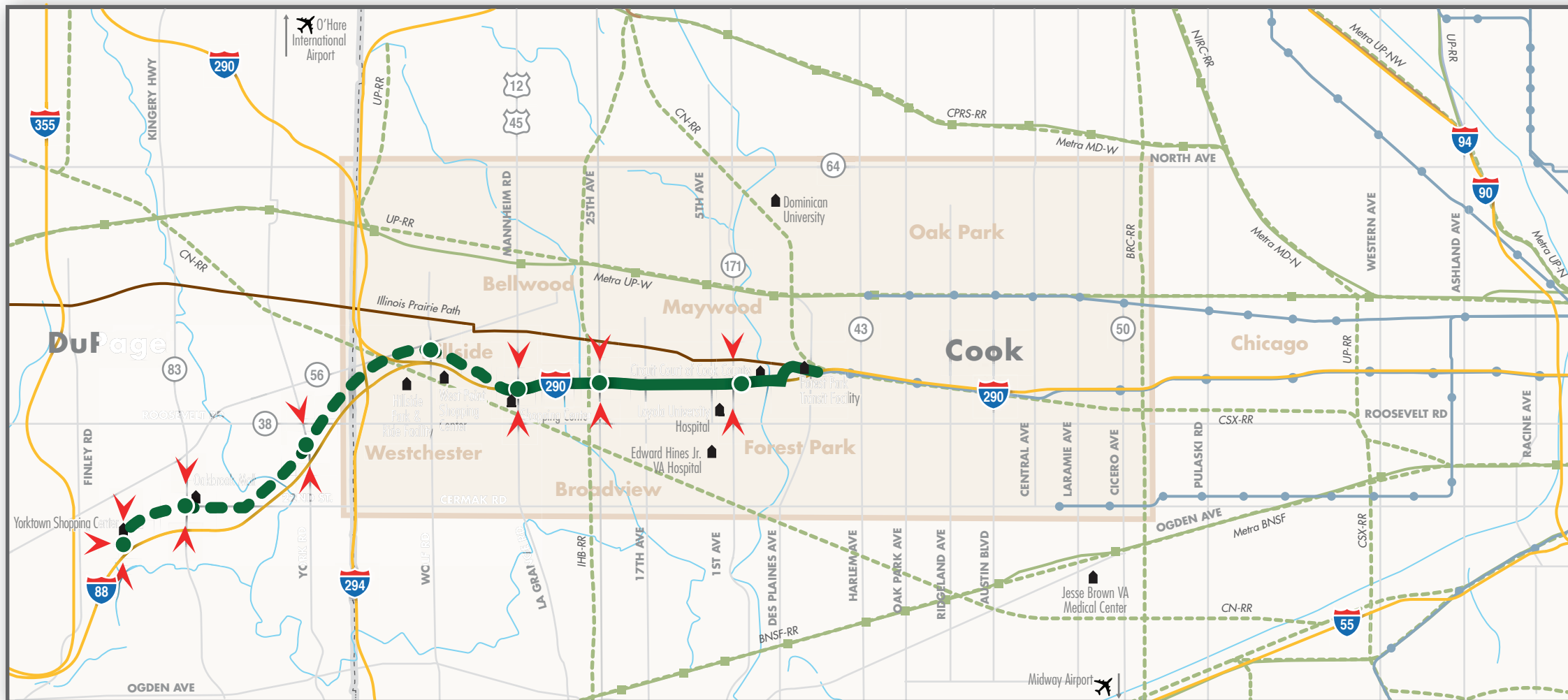
- > Added 12 new stops at new stations on routes: CTA Bus Route #17, Pace Bus Routes # 301, #310, #317, #325, #330, #331, #332, #747, #757, #877, and #888.
- > Rerouted existing Pace Bus Route # 331 from 5th Avenue to 1st Avenue station.
- > Truncated 3 existing bus routes to new terminal stop: #391 and #757 to Wolf Road station and #747 to York Road station.
- > Optimized 2 existing Pace express bus routes to provide express shuttle service: Pace Routes #877 and #888.
- > Included future Pace Bus Route art89 along Cermak Road (Yorktown to CTA Pink Line).



# BRT I-290 > From Lombard to Forest Park CTA Terminal

ID: BRT 5

Bus Rapid Transit (BRT)



### Legend

- Interstate
- Metra Line/Station
- Existing CTA Rail /Station Access
- IL Prairie Path Multi-Use Trail
- Railroad
- I-290 Study Area
- County Boundary
- River

### Alternative

- At-Grade
- Elevated Guideway
- New Stations
- Bus Service Enhancements

N

*\*Not to scale*

## DESCRIPTION:

- > Adjacent to Butterfield Road, 22nd Street, I-88, and I-290 from Lombard (Yorktown Shopping Center) to Mannheim Road (elevated).
- > Via I-290 median from Mannheim Road to CTA Forest Park terminal.
- > 11.2 miles

## TRANSIT SERVICE ENHANCEMENTS:

- > Added 7 New Blue Line stations: Yorktown Shopping Center, 22nd Street, York Road, Wolf Road, Mannheim Road, 25th Avenue and 1st Avenue.

## TRANSIT SERVICE ENHANCEMENTS: (con't)

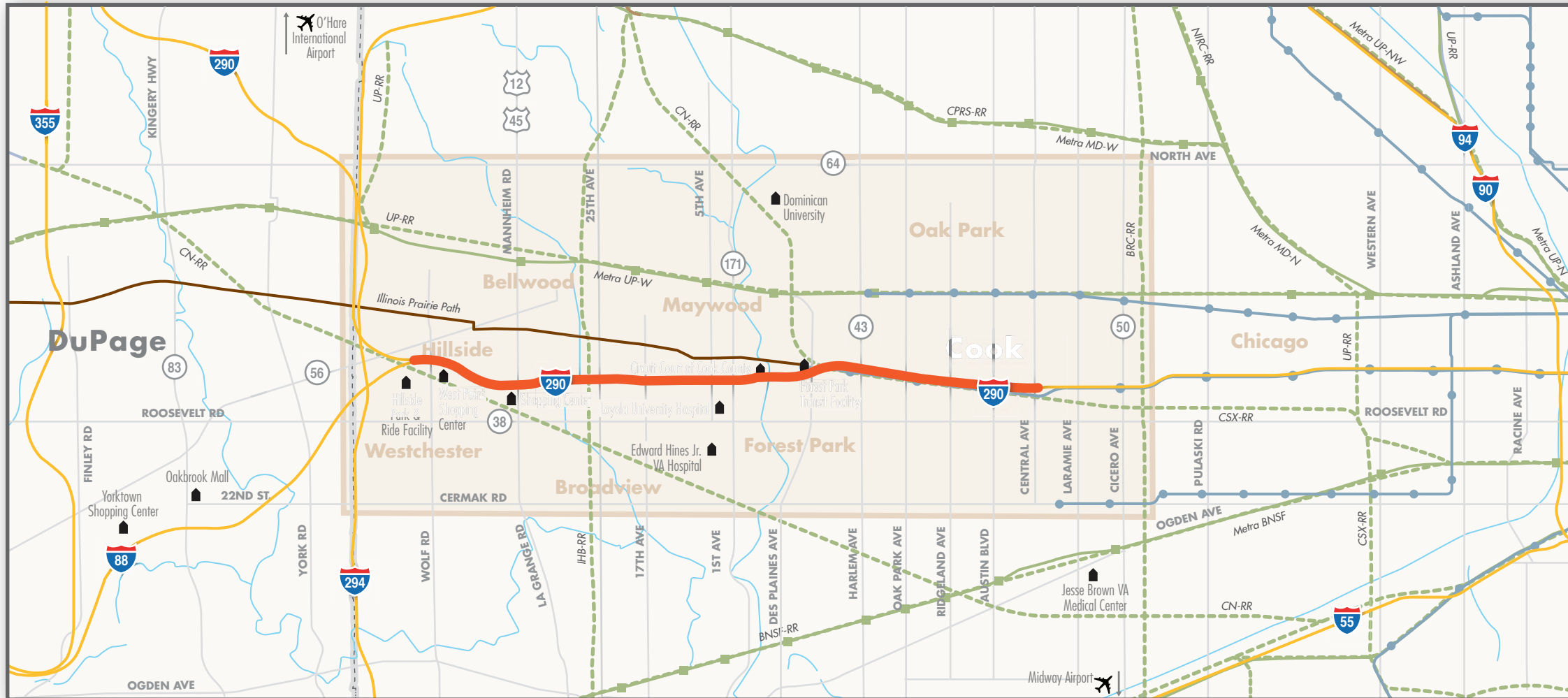
- > Added 12 new stops at new stations on routes: CTA Bus Route #17, Pace Bus Routes # 301, #310, #317, #325, #330, #331, #332, #747, #757, #877, and #888.
- > Rerouted existing Pace Bus Route # 331 from 5th Avenue to 1st Avenue station.
- > Truncated 3 existing Pace bus routes to new terminal stop: #391 and #757 to Wolf Road station and #747 to York Road station.
- > Optimized 2 existing Pace express bus routes to provide express shuttle service: #877 and #888.
- > Included future Pace Bus Route art89 along Cermak Road (Yorktown to CTA Pink Line).



# General Purpose Add Lane > From I-88/290 Split to Central Avenue

ID: GP LANE

General Purpose Add Lane



**Legend**

- Interstate
- Metra Line/Station
- Existing CTA Rail /Station Access
- IL Prairie Path Multi-Use Trail
- Railroad
- I-290 Study Area
- County Boundary
- River

**Alternative**

- Add Lanes

N

*\*Not to scale*

### DESCRIPTION:

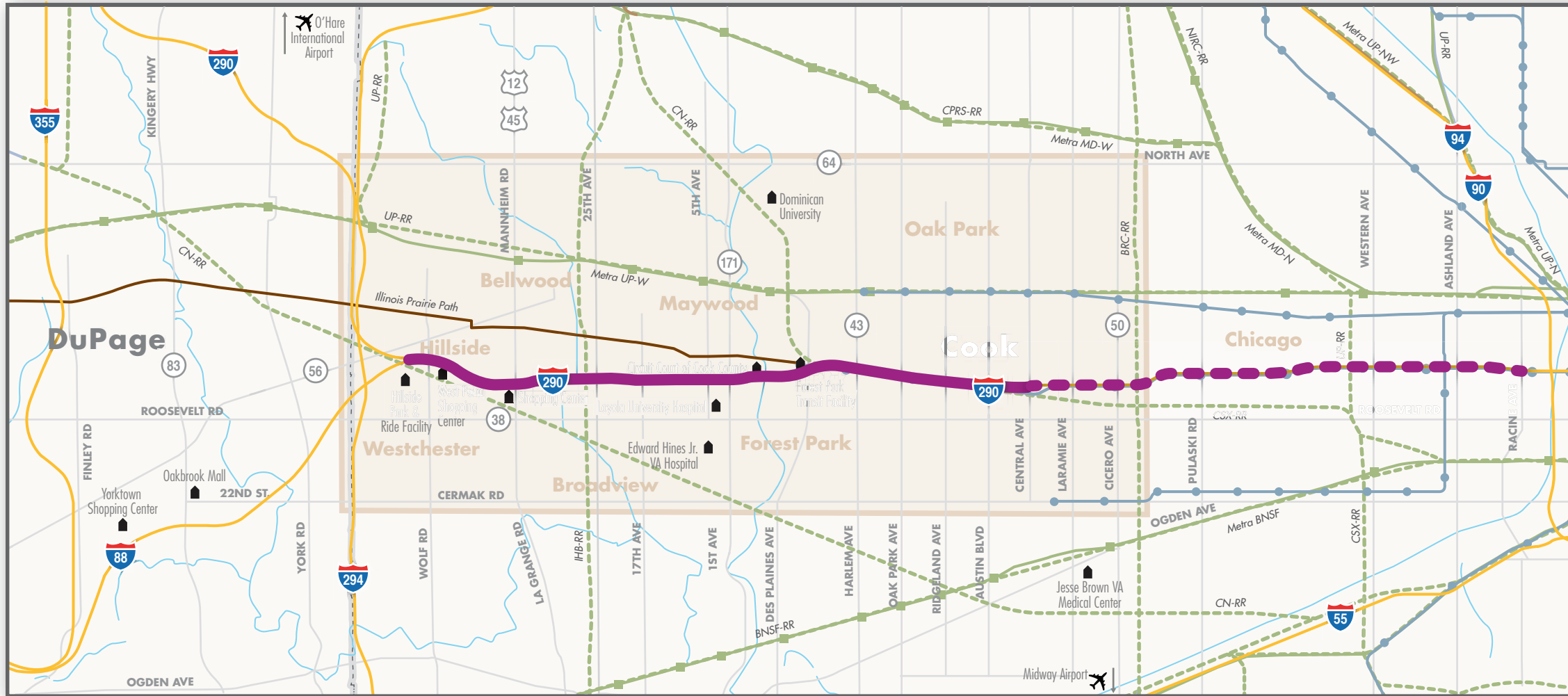
- > Add 2 lanes (1 in each direction) along I-290 from I-88/290 Split to Central Avenue.
- > 7.5 miles



# HOV 2+ Long > From I-88/I-290 Split to Racine Avenue

ID: HOV 2L

High Occupancy Vehicle Lanes (HOV) 2+ Occupants



**Legend**

- Interstate
- Metra Line/Station
- Existing CTA Rail /Station Access
- IL Prairie Path Multi-Use Trail
- Railroad
- I-290 Study Area
- County Boundary
- River

**Alternative**

- Add Lanes
- Convert Existing Lanes

N

*\*Not to scale*

### DESCRIPTION:

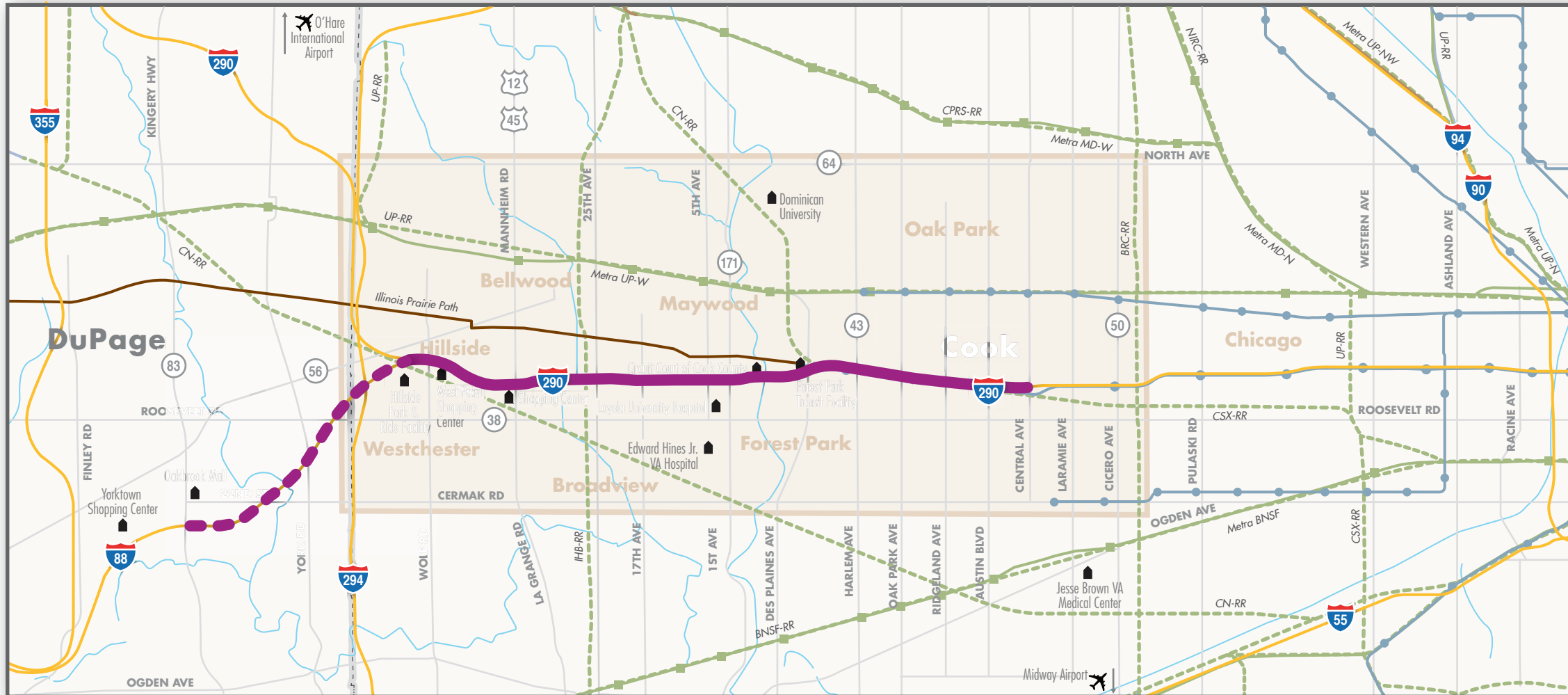
- > HOV lane restricted to vehicles with 2 or more occupants (no toll).
- > Add 2 HOV lanes (1 lane each direction) on I-290 from I-88/290 Split to Central Avenue.
- > Convert 2 existing General Purpose Lanes to HOV (1 lane each direction) on I-290 from Central Avenue to Racine Avenue.
- > 13 miles



# HOV 2+ West > From Oak Brook to Central Avenue

ID: HOV 2W

High Occupancy Vehicle Lanes (HOV) 2+ Occupants



**Legend**

- Interstate
- Metra Line/Station
- Existing CTA Rail /Station Access
- IL Prairie Path Multi-Use Trail
- Railroad
- I-290 Study Area
- County Boundary
- River

**Alternative**

- Add Lanes
- Convert Existing Lanes

N

*\*Not to scale*

### DESCRIPTION:

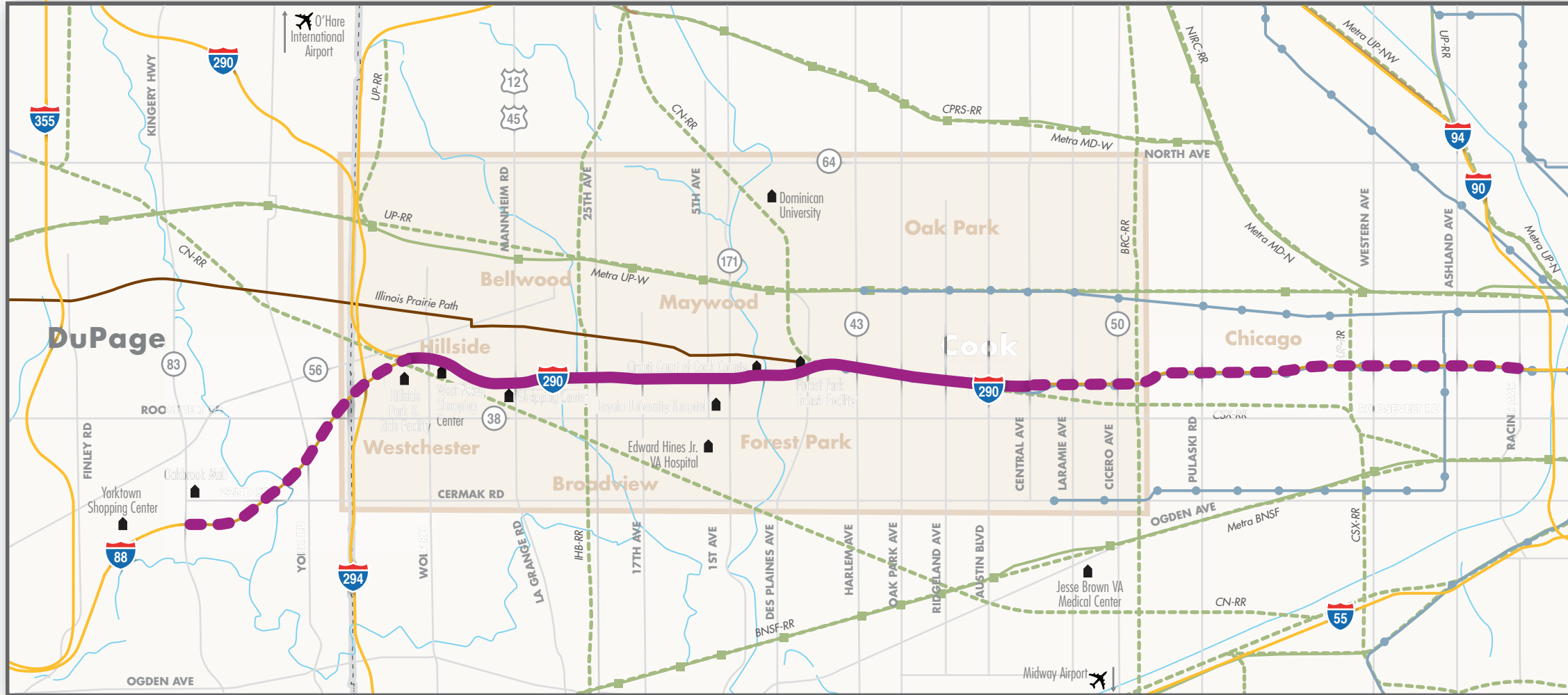
- > HOV lane restricted to vehicles with 2 or more occupants (no toll).
- > Convert 2 existing General Purpose Toll Lanes to HOV (1 lane each direction) on I-88 from Oak Brook (IL 83) to I-88/290 split.
- > Add 2 HOV lanes (1 lane each direction) on I-290 from I-88/290 Split to Central Avenue.
- > 11 miles



# HOV 2+ Long Long > From Oak Brook to Racine Avenue

ID: HOV 2LL

High Occupancy Vehicle Lanes (HOV) 2+ Occupants



**Legend**

- Interstate
- Metra Line/Station
- Existing CTA Rail /Station Access
- IL Prairie Path Multi-Use Trail
- Railroad
- I-290 Study Area
- County Boundary
- River

**Alternative**

- Add Lanes
- Convert Existing Lanes

N

*\*Not to scale*

### DESCRIPTION:

- > HOV lane restricted to vehicles with 2 or more occupants (no toll).
- > Convert 2 existing General Purpose Toll Lanes to HOV (1 lane each direction) on I-88 from Oak Brook (IL 83) to I-88/290 split.
- > Add 2 HOV lanes (1 lane each direction) on I-290 from I-88/290 Split to Central Avenue.

### DESCRIPTION: (con't)

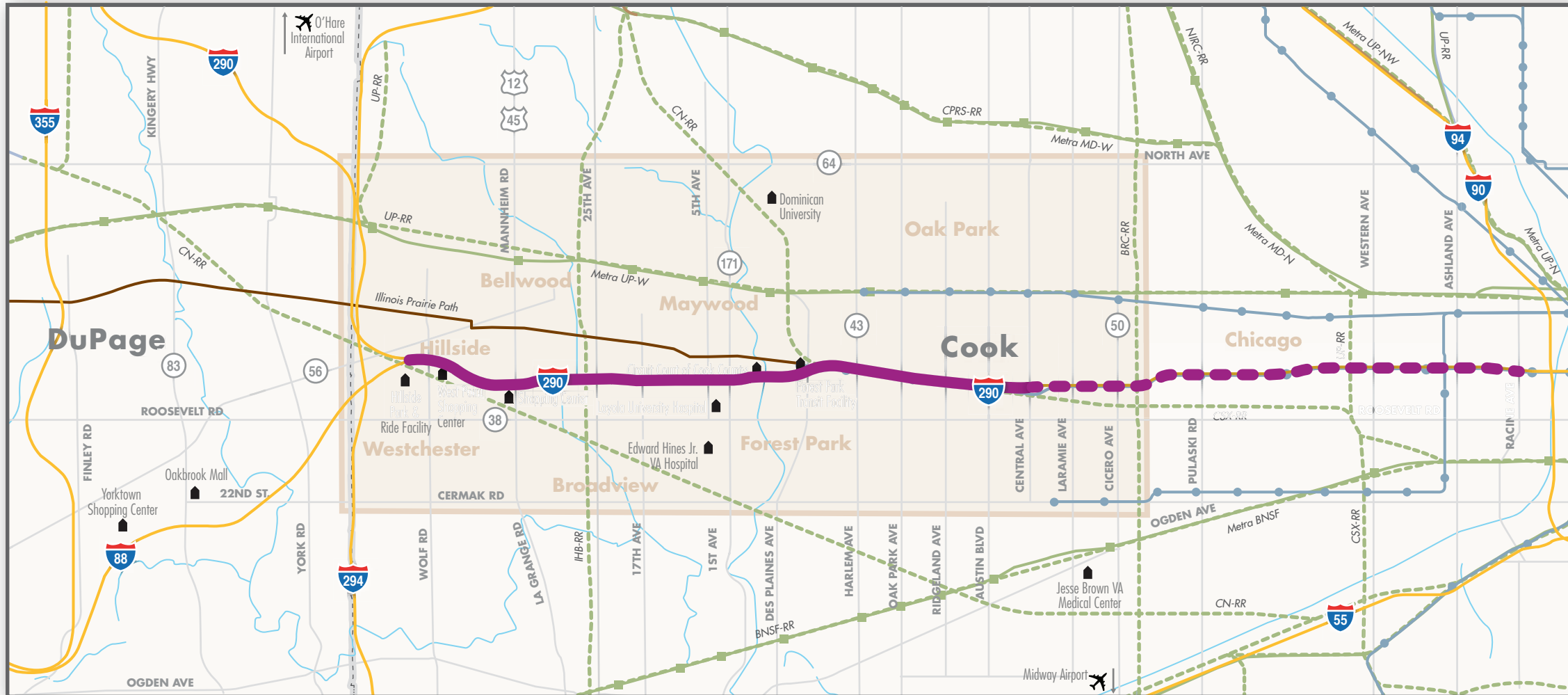
- > Convert 2 existing General Purpose lanes to HOV (1 lane each direction) on I-290 from Central Avenue to Racine Avenue.
- > 16.5 miles



# HOV 3+ Long > From I-88/I-290 Split to Racine Avenue

ID: HOV 3L

High Occupancy Vehicle Lanes (HOV) 3+ Occupants



**Legend**

- Interstate
- Metra Line/Station
- Existing CTA Rail /Station Access
- IL Prairie Path Multi-Use Trail
- Railroad
- I-290 Study Area
- County Boundary
- River

**Alternative**

- Add Lanes
- Convert Existing Lanes

N

*\*Not to scale*

### DESCRIPTION:

- > HOV lane restricted to vehicles with 3 or more occupants (no toll).
- > Add 2 HOV lanes (1 lane each direction) on I-290 from I-88/290 Split to Central Avenue.
- > Convert 2 existing General Purpose Lanes to HOV (1 lane each direction) on I-290 from Central Avenue to Racine Avenue.
- > 13 miles

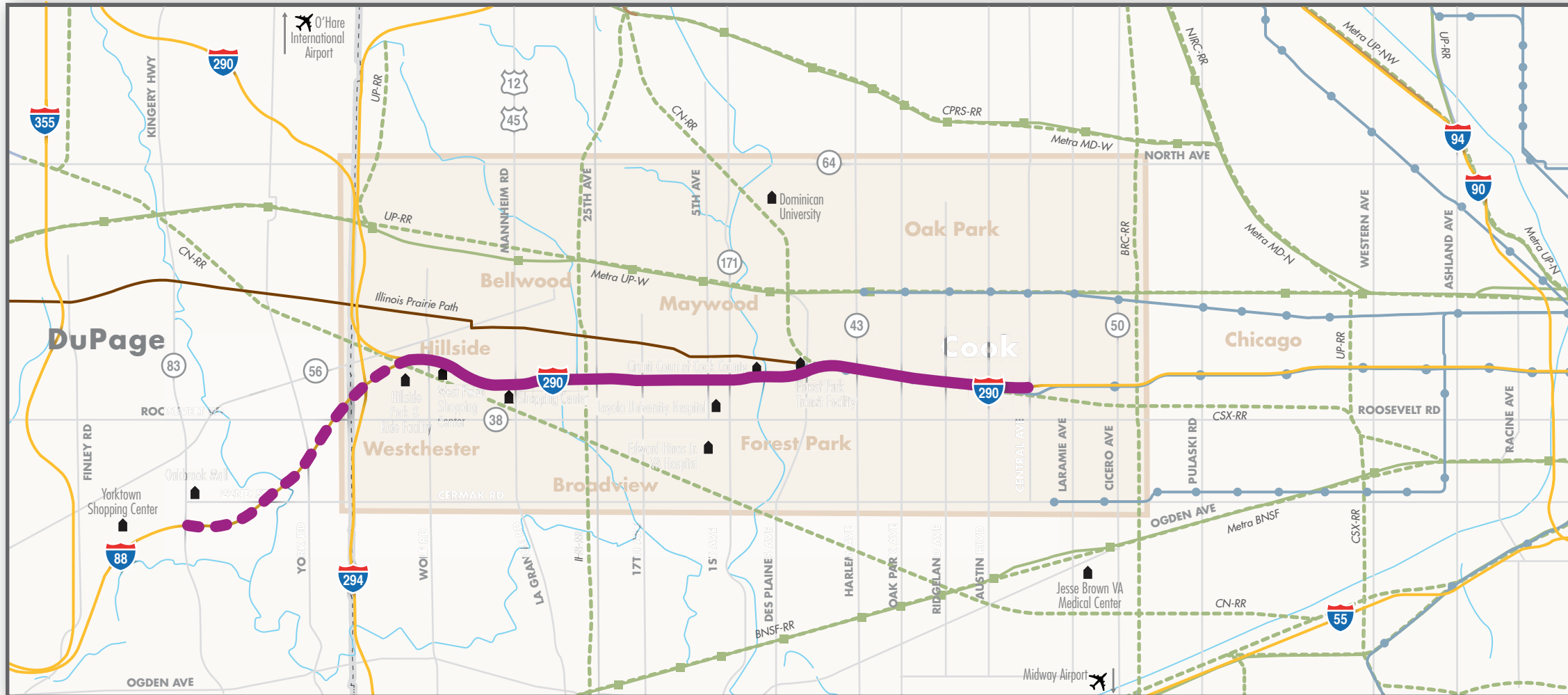




# HOV 3+ West > From Oak Brook to Central Avenue

ID: HOV 3W

High Occupancy Vehicle Lanes (HOV) 3+ Occupants



**Legend**

- Interstate
- Metra Line/Station
- Existing CTA Rail /Station Access
- IL Prairie Path Multi-Use Trail
- Railroad
- I-290 Study Area
- County Boundary
- River

**Alternative**

- Add Lanes
- Convert Existing Lanes

N

*\*Not to scale*

### DESCRIPTION:

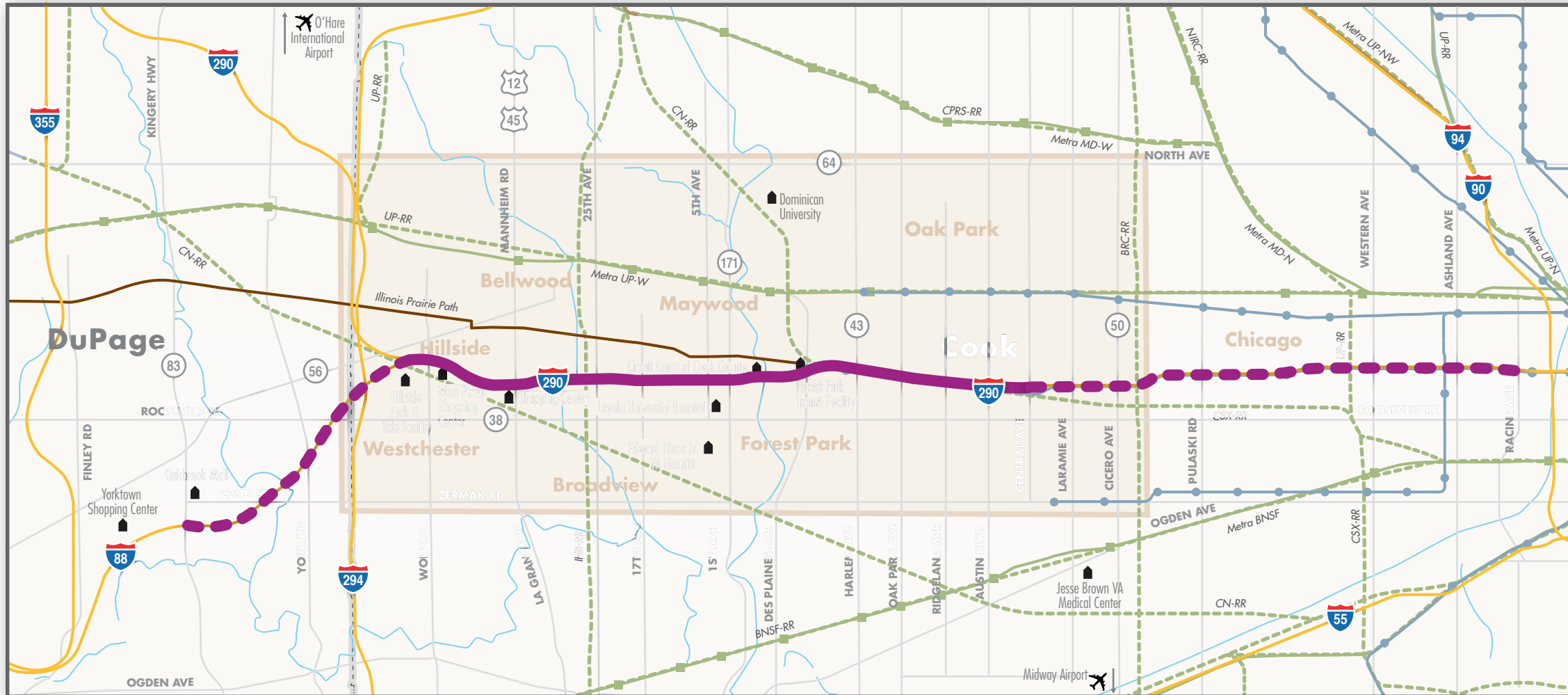
- > HOV lane restricted to vehicles with 3 or more occupants (no toll).
- > Convert 2 existing General Purpose Toll Lanes to HOV (1 lane each direction) on I-88 from Oak Brook (IL 83) to I-88/290 split.
- > Add 2 HOV lanes (1 lane each direction) on I-290 from I-88/290 Split to Central Avenue.
- > 11 miles



# HOV 3+ Long Long > From Oak Brook to Racine Avenue

ID: HOV 3LL

High Occupancy Vehicle Lanes (HOV) 3+ Occupants



### Legend

- Interstate
- Metra Line/Station
- Existing CTA Rail /Station Access
- IL Prairie Path Multi-Use Trail
- Railroad
- I-290 Study Area
- County Boundary
- River

### Alternative

- Add Lanes
- Convert Existing Lanes

N

*\*Not to scale*

### DESCRIPTION:

- > HOV lane restricted to vehicles with 3 or more occupants (no toll).
- > Convert 2 existing General Purpose Toll Lanes to HOV (1 lane each direction) on I-88 from Oak Brook (IL 83) to I-88/290 split.
- > Add 2 HOV lanes (1 lane each direction) on I-290 from I-88/290 Split to Central Avenue.

### DESCRIPTION: (con't)

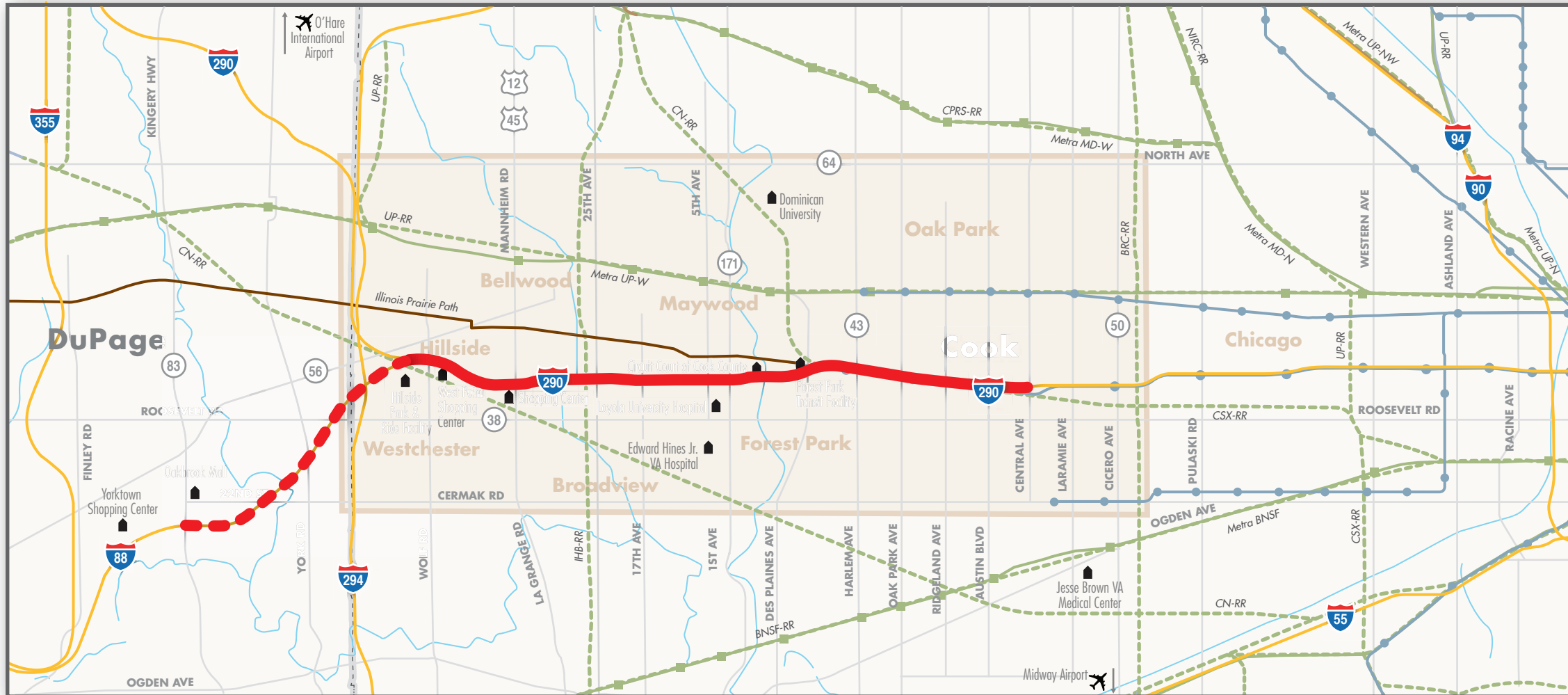
- > Convert 2 existing General Purpose Lanes to HOV (1 lane each direction) on I-290 from Central Avenue to Racine Avenue.
- > 16.5 miles



# HOT 3+ Short > From Oak Brook (IL 83) to Central Avenue

ID: HOT 1

High Occupancy Toll Lane (HOT)



**Legend**

- Interstate
- Metra Line/Station
- Existing CTA Rail /Station Access
- IL Prairie Path Multi-Use Trail
- Railroad
- I-290 Study Area
- County Boundary
- River

**Alternative**

- Add Lanes
- Convert Existing Lanes

N

*\*Not to scale*

### DESCRIPTION:

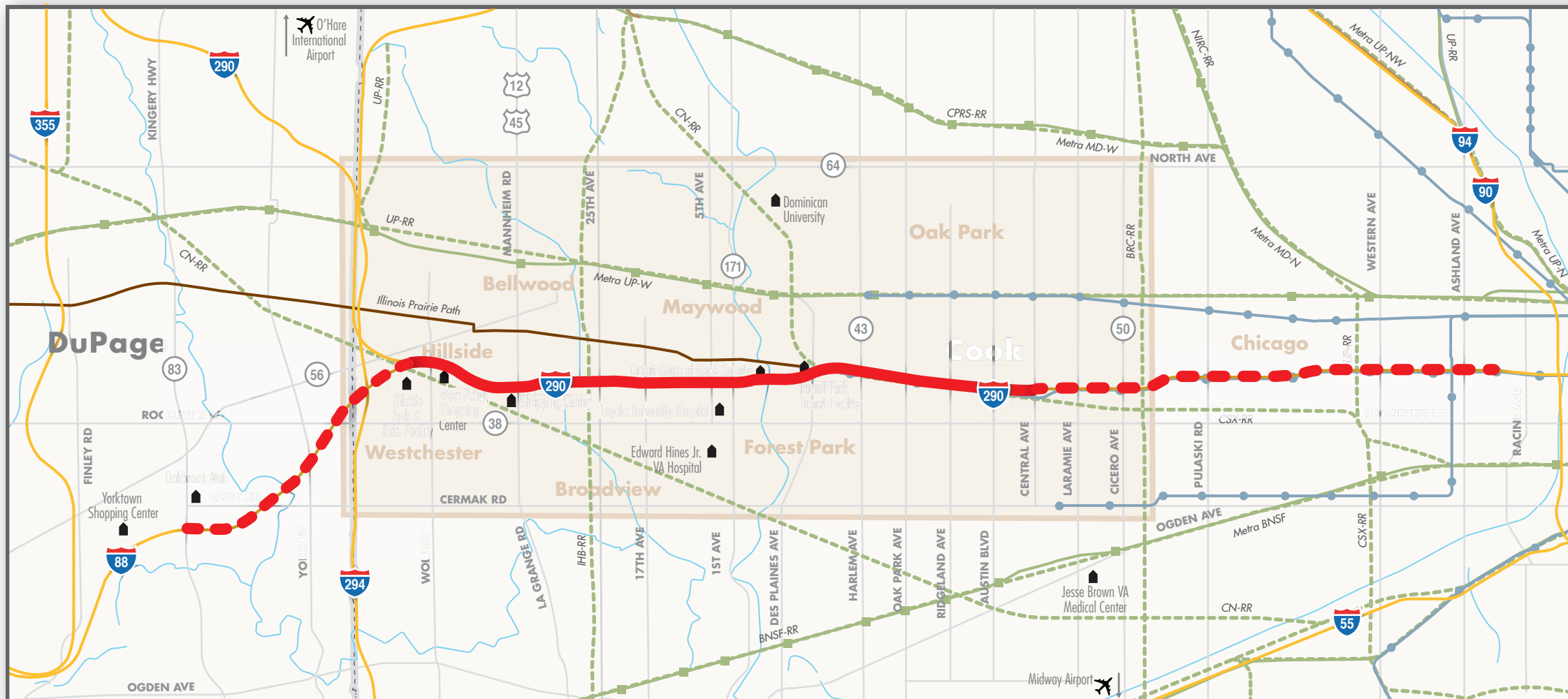
- > Convert 2 General Purpose Toll Lanes to HOT Lanes (1 lane each direction ) on I-88 from Oak Brook (IL 83) to I-88/290 split.
- > Add 2 HOT lanes (1 lane each direction) on I-290 from I-88/290 Split to Central Avenue.
- > Single and double occupancy vehicles pay toll to enter HOT lane, 3 or more occupancy vehicles ride free.
- > 11 miles



# HOT 3+ Long > From Oak Brook (IL 83) to Racine Avenue

ID: HOT 2

High Occupancy Toll Lane (HOT)



**Legend**

- Interstate
- Metra Line/Station
- Existing CTA Rail /Station Access
- IL Prairie Path Multi-Use Trail
- Railroad
- I-290 Study Area
- County Boundary
- River

**Alternative**

- Add Lanes
- Convert Existing Lanes

N

*\*Not to scale*

### DESCRIPTION:

- > Convert 2 General Purpose Toll Lanes to HOT Lanes (1 lane each direction ) on I-88 from Oak Brook (IL 83) to I-88/290 split.
- > Add 2 HOT lanes (1 lane each direction) on I-290 from I-88/290 Split to Central Avenue.
- > Convert 2 General Purpose Lanes to HOT Lanes (1 lane each direction ) on I-290 from Central Avenue to Racine Avenue.

### DESCRIPTION: (con't)

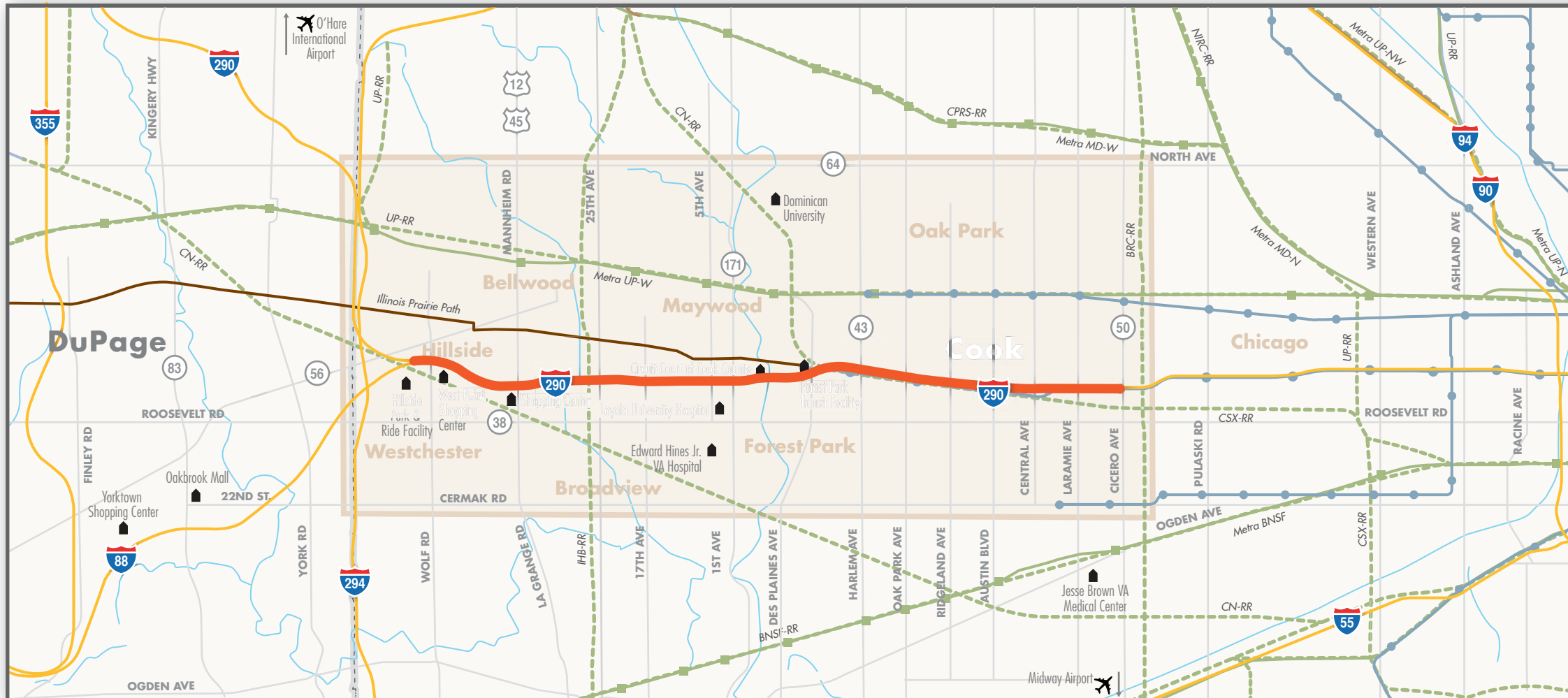
- > Single and double occupancy vehicles pay toll to enter HOT lane, 3 or more occupancy vehicles ride free.
- > 16.5 miles



# Toll Existing I-290 > From I-88/290 Split to Cicero Avenue

ID: TOL1

Toll Existing I-290



**Legend**

- Interstate
- Metra Line/Station
- Existing CTA Rail /Station Access
- IL Prairie Path Multi-Use Trail
- Railroad
- I-290 Study Area
- County Boundary
- River

**Alternative**

- Toll Lanes

N

*\*Not to scale*

### DESCRIPTION:

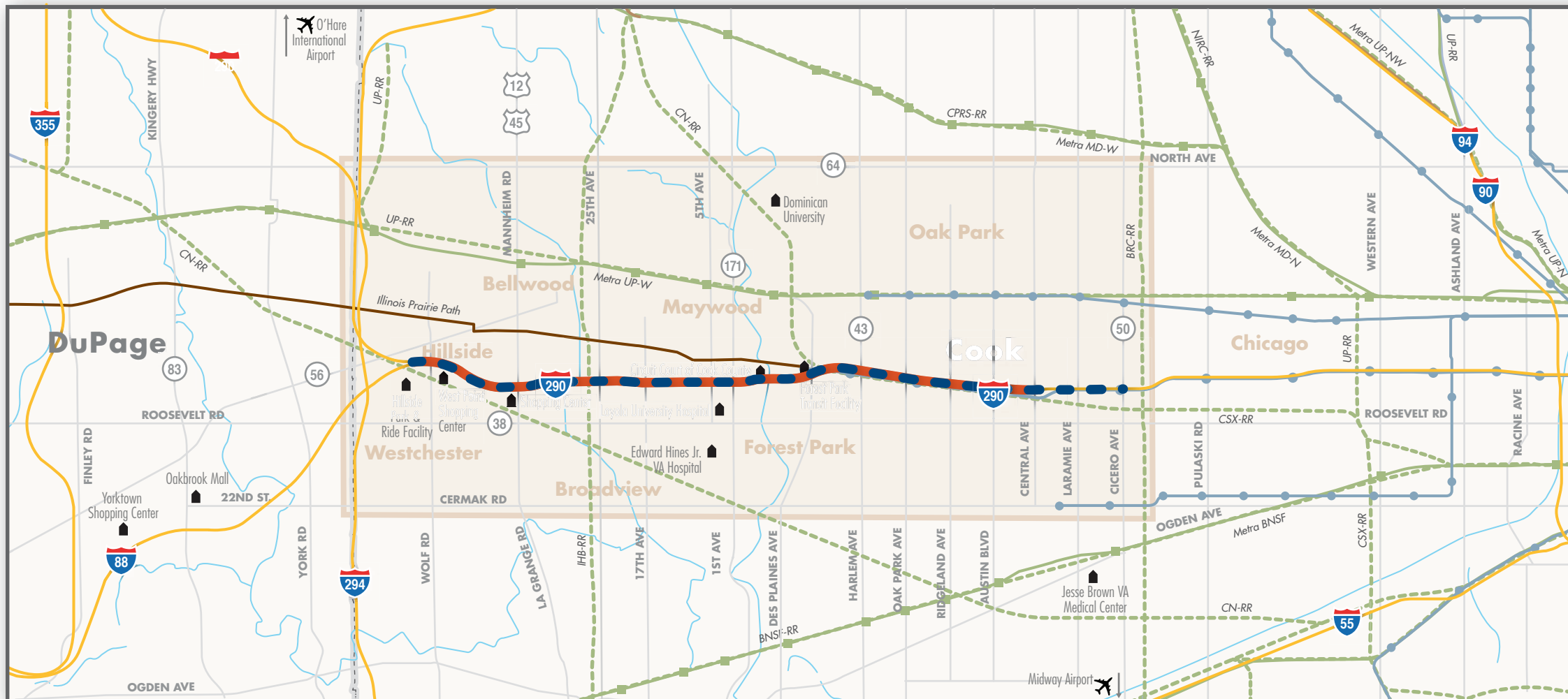
- > Toll existing I-290 lanes from I-88/I-290 split to Cicero Avenue.
- > 8.5 miles



# Toll I-290 with Add Lane > From I-88/290 Split to Cicero Avenue

ID: TOL2

Toll I-290 with Add Lane



**Legend**

- Interstate
- Metra Line/Station
- Existing CTA Rail /Station Access
- IL Prairie Path Multi-Use Trail
- Railroad
- I-290 Study Area
- County Boundary
- River

**Alternative**

- Add Lanes
- Toll Lanes

N

*\*Not to scale*

### DESCRIPTION:

- > Toll I-290 lanes from I-88/290 split to Cicero Avenue.
- > Add 2 lanes (1 in each direction) along I-290 from I-88/290 split to Central Avenue.
- > 8.5 miles