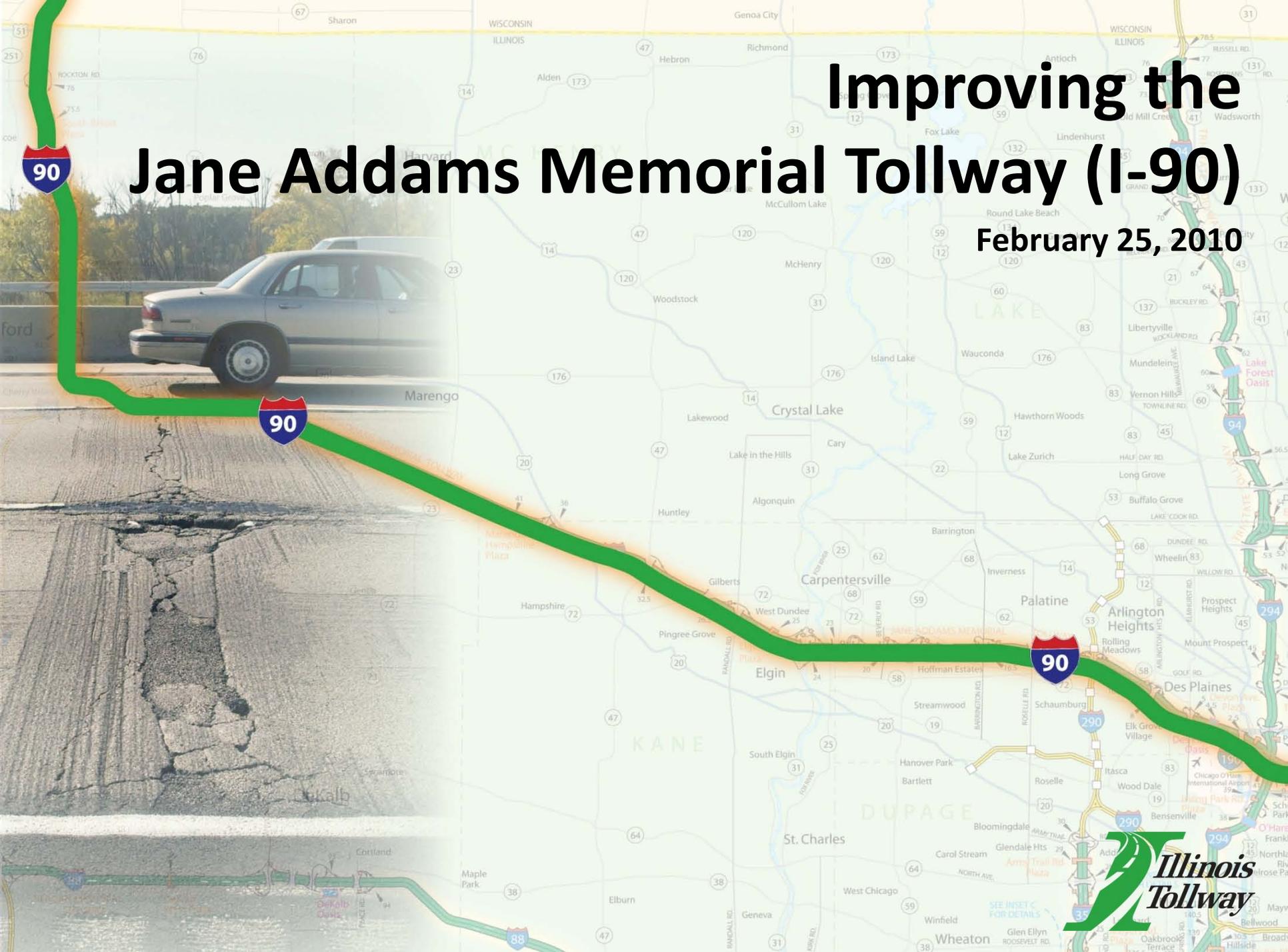
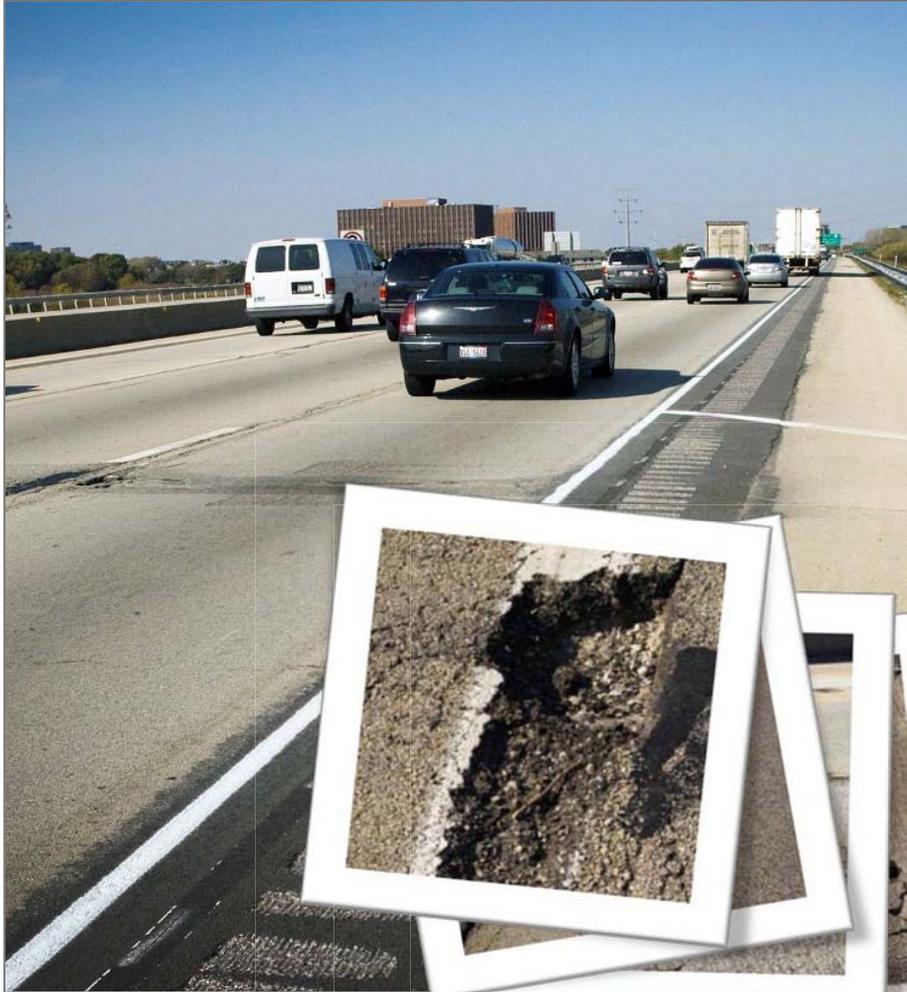


Improving the Jane Addams Memorial Tollway (I-90)

February 25, 2010

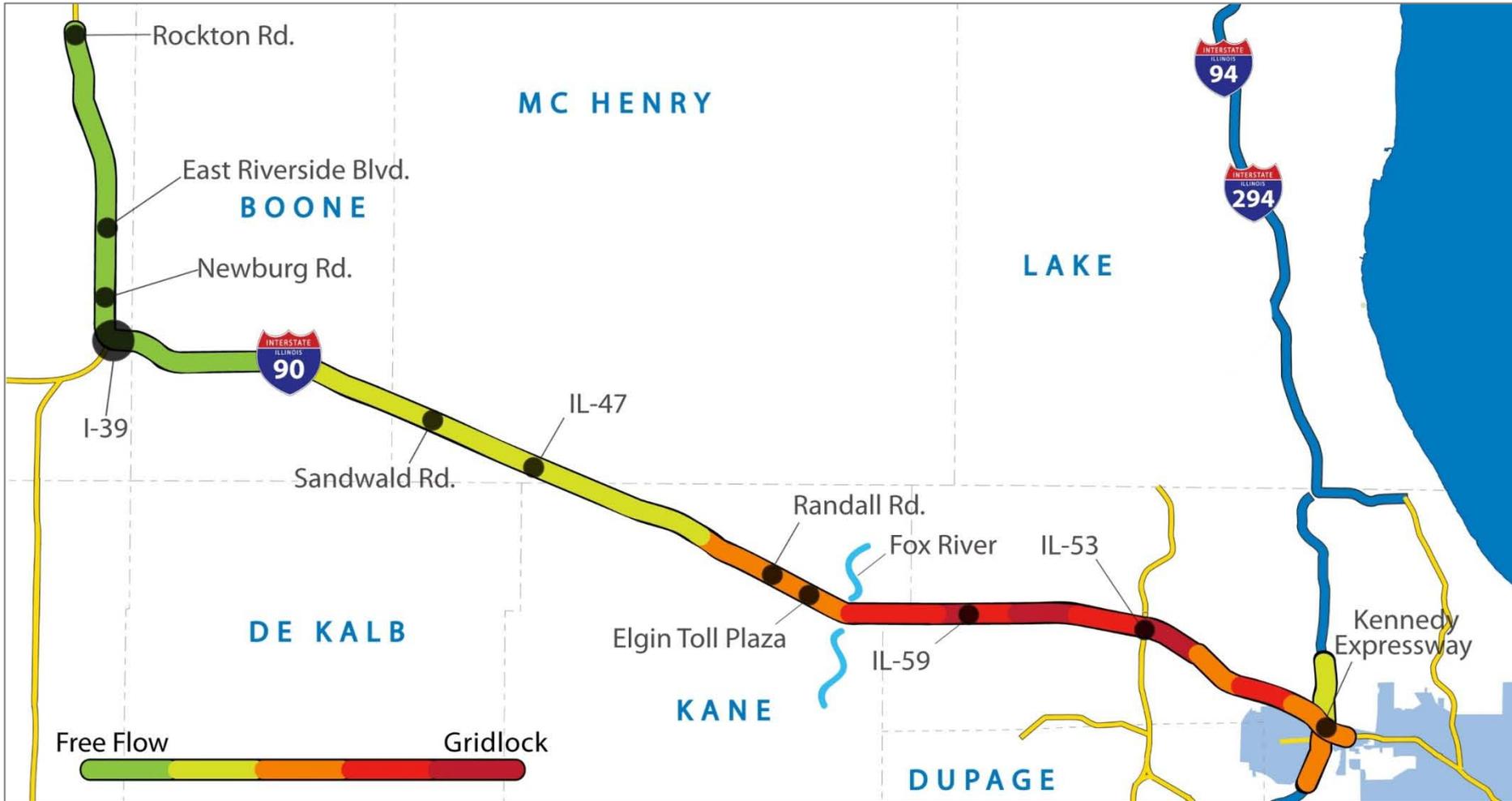


Pavement Conditions



- Remaining Service of Life measured annually
- 50-year old I-90 pavement nearing end of useful life
- Latest annual report estimates ***over 80% of I-90 will require major repairs by end of 2010***

2010 I-90 Level of Service Analysis



Current Congestion-Relief Program

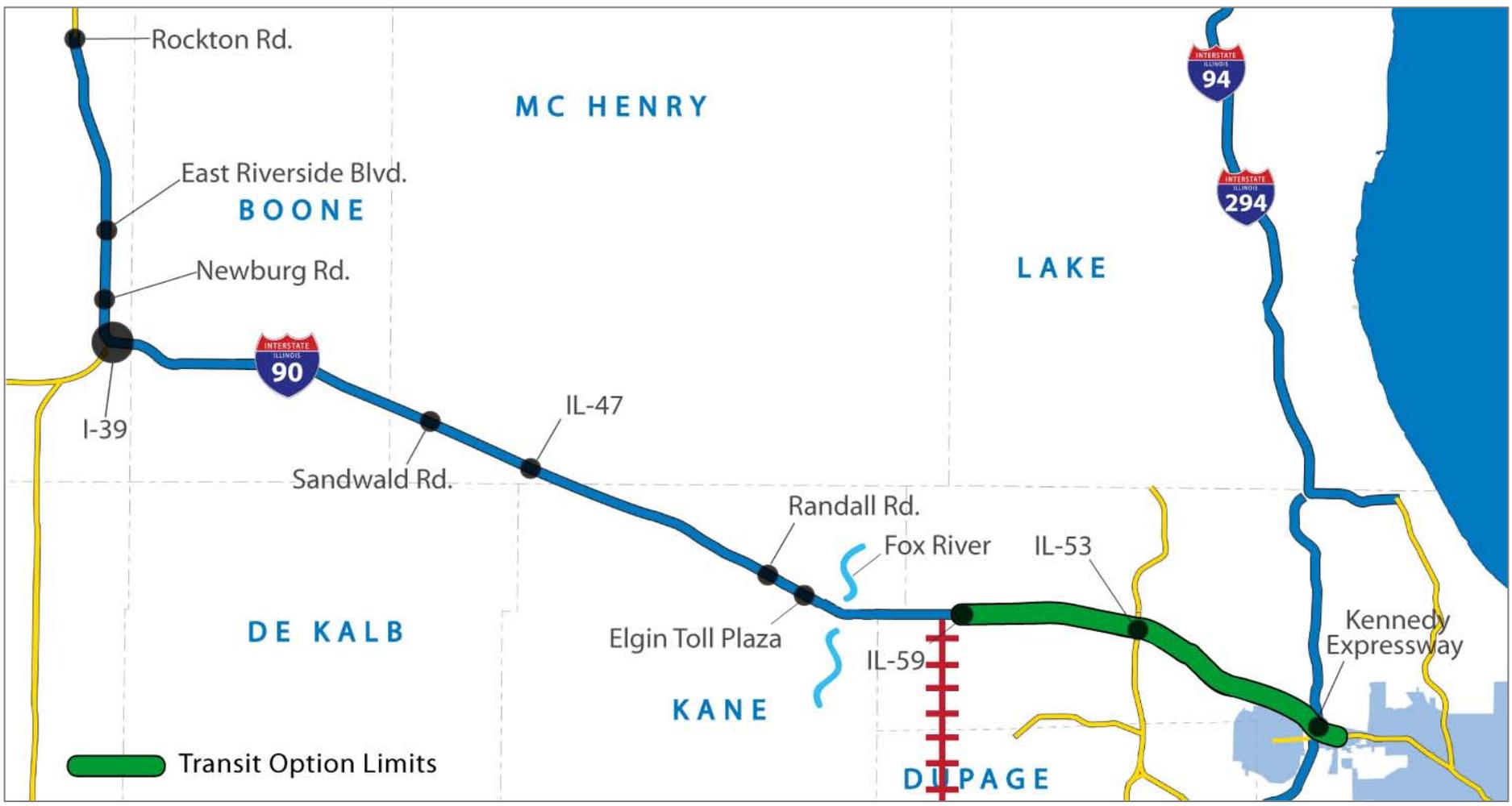


The following projects are funded under the current Congestion-Relief Program:

	Construction Period	2010 Dollars	CRP Budget
Rehabilitate & Resurface			
Kennedy Expressway to IL-53	2011	\$54.5 M	\$57.2 M
IL-53 to Elgin Toll Plaza	2011	\$92.0 M	\$96.6 M
Elgin Toll Plaza to Sandwald Rd.	2015	\$37.4 M	\$47.7 M
Sandwald Rd. to Newburg Rd.	2015	\$110.0 M	\$140.4 M
TOTAL		\$293.9 M	\$341.9 M
Reconstruct/Add Lane			
Design Only	2015-2016	\$119.0 M	\$151.9 M
GRAND TOTAL		\$412.9 M	\$493.8 M

Note: Intermittent pavement repairs will be required as needed between 2010-2016. These costs are not shown and are included in the systemwide funds.

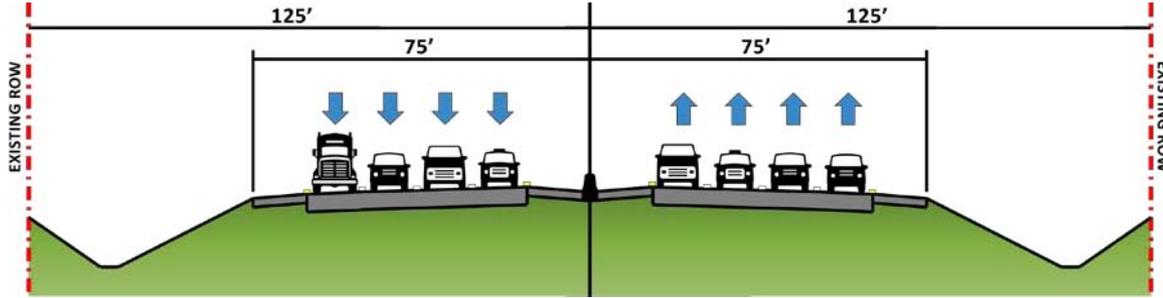
Study Limits



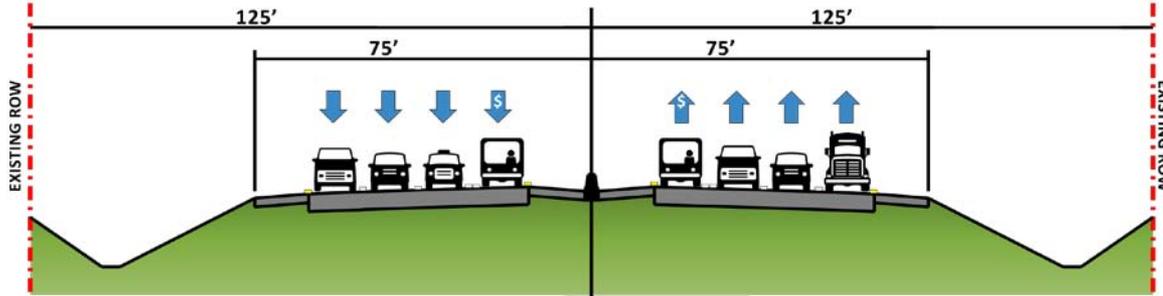
Express Bus Service with Stations Cross Sections



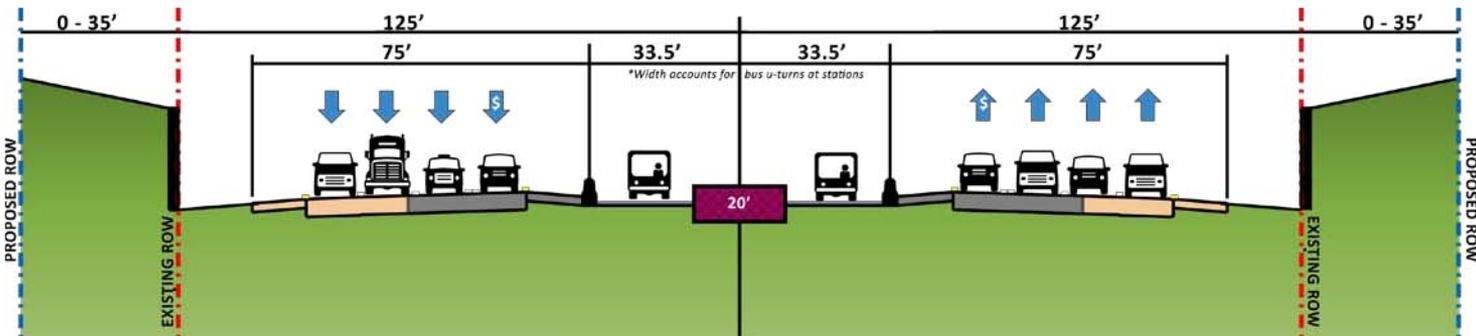
MASTER PLAN
Options 2 or 3
Reconstruct & Widen



EBS BETWEEN STATIONS
Options 4 or 7
Reconstruct & Widen + EBS



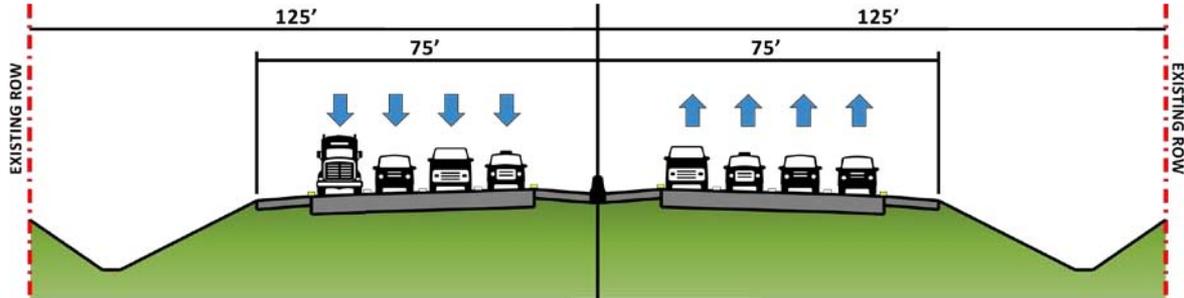
EBS AT STATIONS
Options 4 or 7
Reconstruct & Widen + EBS



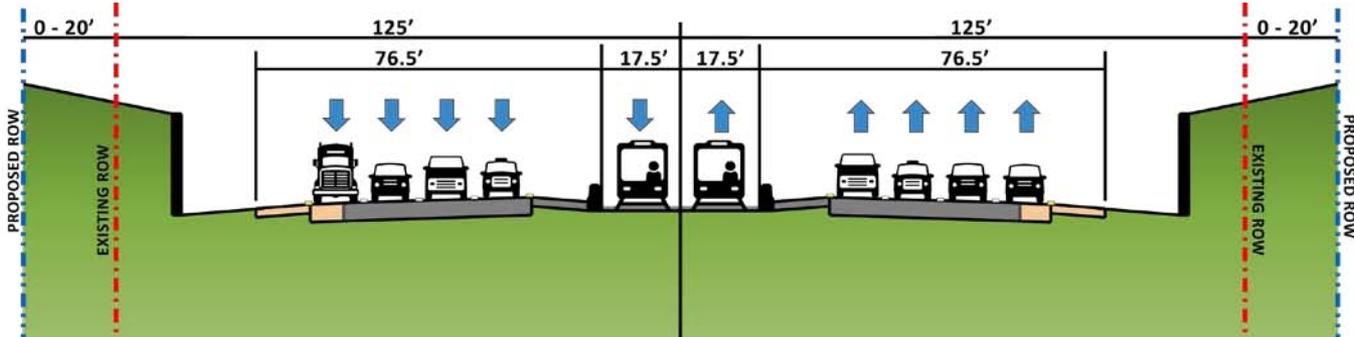
STAR Line Cross Sections



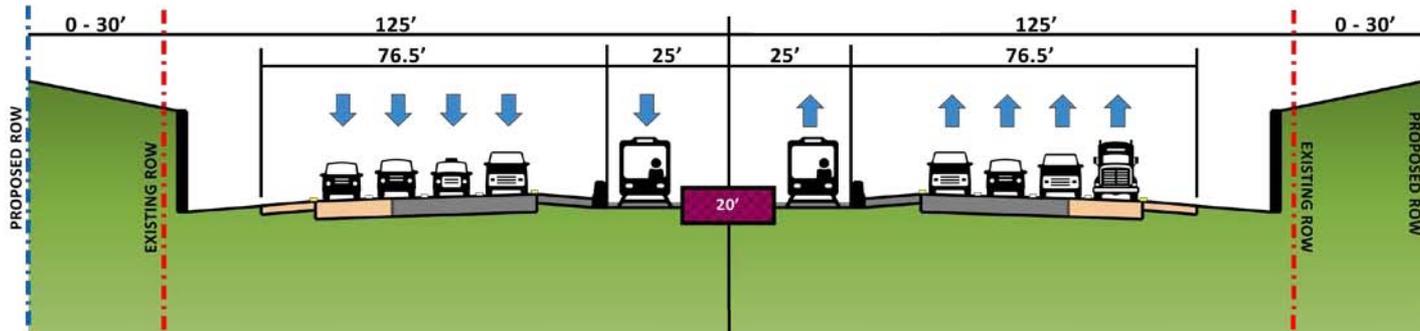
MASTER PLAN
Options 2 or 3
Reconstruct & Widen



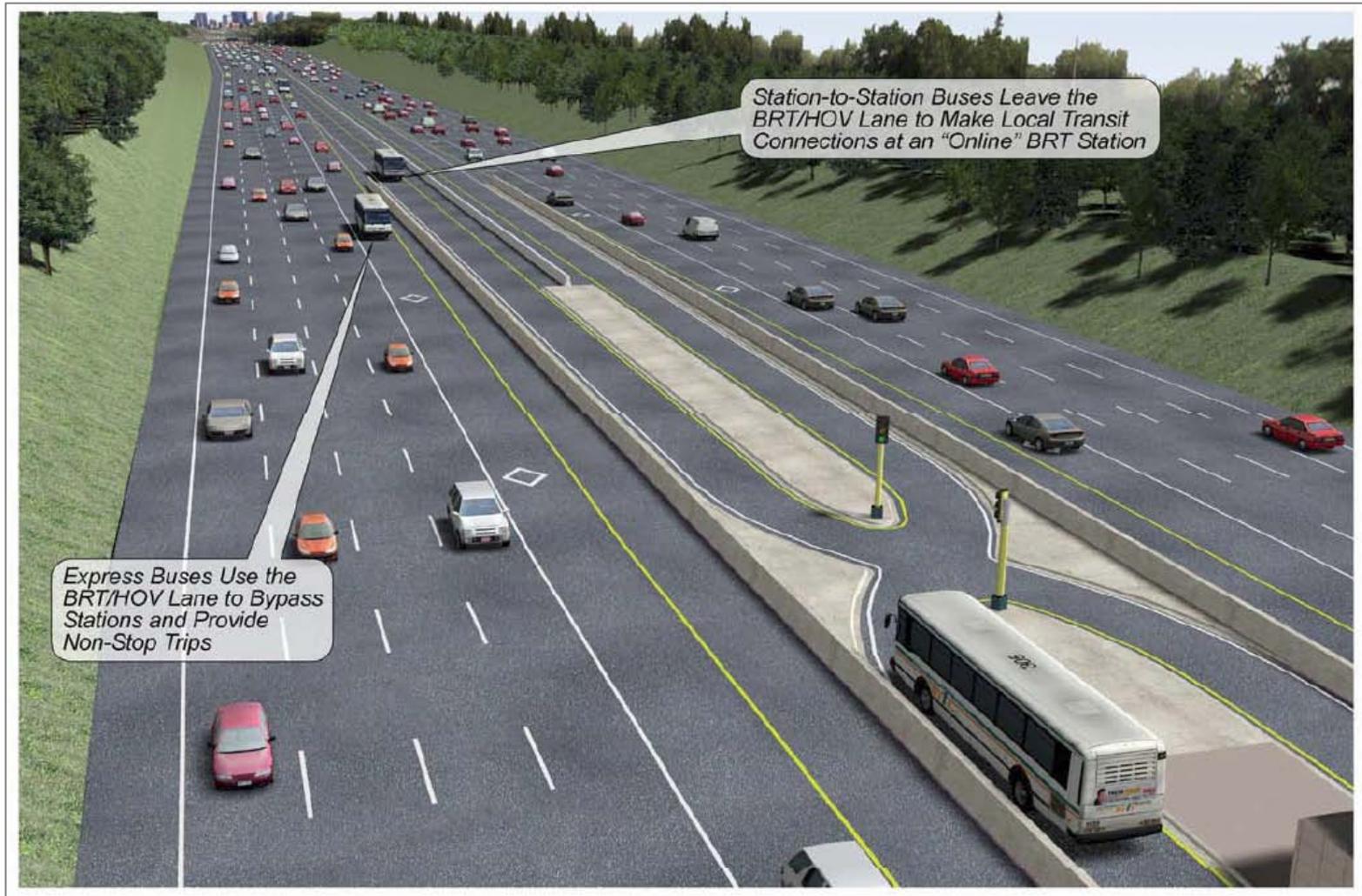
STAR BETWEEN STATIONS
Options 5 or 6
Reconstruct & Widen + STAR



STAR AT STATIONS
Options 5 or 6
Reconstruct & Widen + STAR



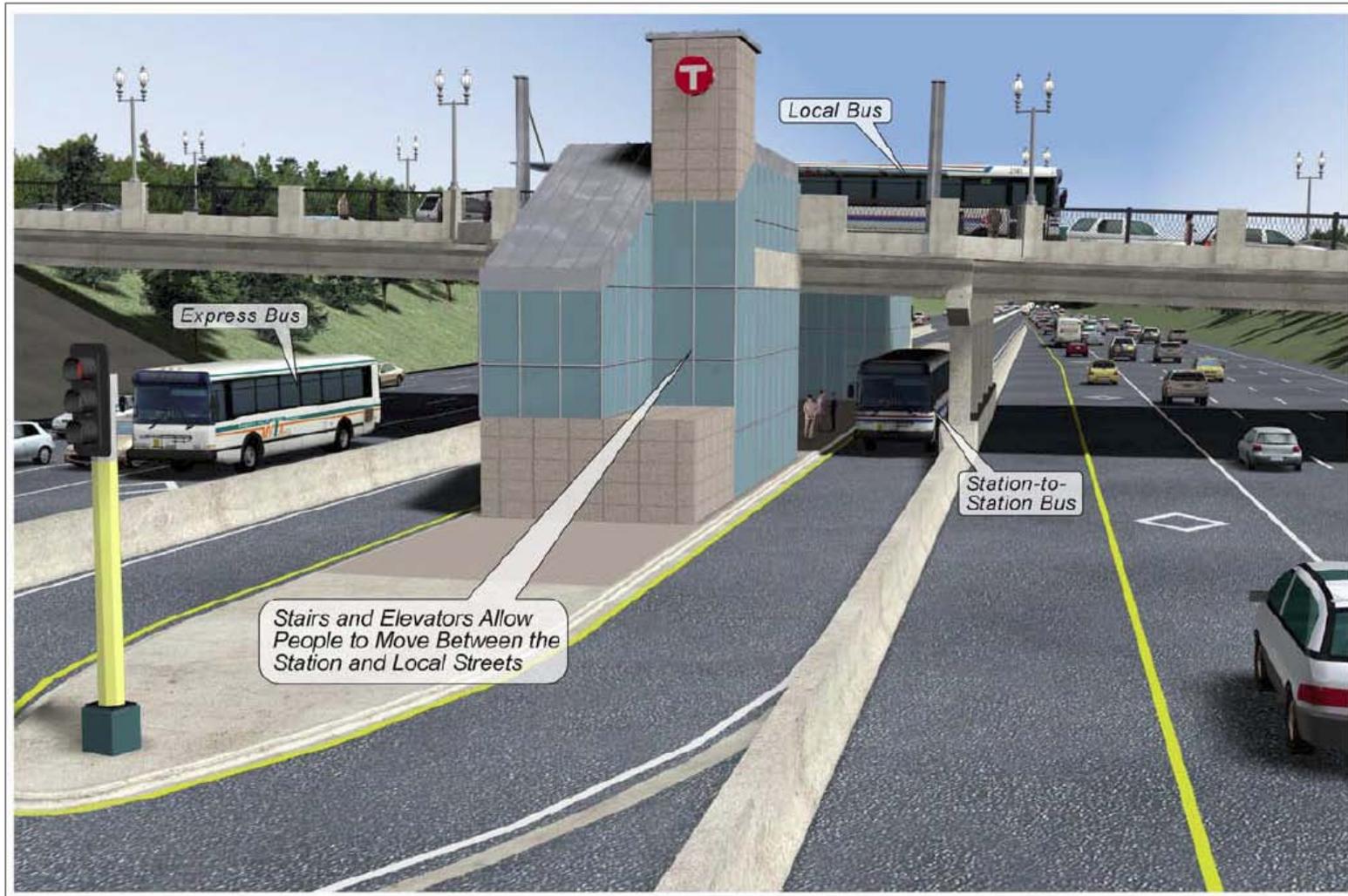
Express Bus Service with Stations



Station-to-Station Buses Leave the BRT/HOV Lane to Make Local Transit Connections at an "Online" BRT Station

Express Buses Use the BRT/HOV Lane to Bypass Stations and Provide Non-Stop Trips

Express Bus Service with Stations



Evaluation Criteria



- Construction and repair costs
- Additional costs to account for transit options
- Impact on User/Customer
- Additional Capital Needs
- Implementation Timeframe

Optional Approaches



- 1** Reconstruct Later
- 2** Reconstruct & Widen Later
- 3** Reconstruct & Widen Now
- 4** Reconstruct & Widen Later + EBS Reserve ROW with HOT
- 5** Reconstruct & Widen Later + STAR Line Reserve ROW
- 6** Reconstruct Later + STAR Line Reserve ROW
- 7** Reconstruct & Widen Now + EBS Reserve ROW with HOT
- 8** Reconstruct West of STAR Line Now, East of IL-59 later
- 9** Do Nothing

Evaluation Criteria Definitions



- Construction
- Repairs
- Other
- Additional Transit Cost
- User Cost
- Revenue

1 Reconstruct Later



- **Description**
 - Intermittent pavement repairs and resurfacing from 2010 through 2016
 - Reconstruction from 2017 to 2022
- **Total Construction Cost:** \$ 1,867
- **Total User Cost:** \$ 372
- **Total Revenue:** \$ (32)
- **Total Cost:** \$ 2,239
- **Total Net Cost:** \$ 2,271

- **Total Capital Cost:** \$ 1,867

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2 Reconstruct & Widen Later



- **Description**
 - Intermittent pavement repairs and resurfacing from 2010 through 2016
 - Reconstruction and widening from 2017 to 2022
- **Total Construction Cost:** \$ 2,477
- **Total User Cost:** \$ 233
- **Total Revenue:** \$ 43
- **Total Cost:** **\$ 2,711**
- **Total Net Cost:** \$ 2,667

- **Total Capital Cost:** \$ 2,477

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3 Reconstruct & Widen Now



- **Description**
 - Intermittent pavement repairs in 2010
 - Reconstruction and widening from 2011 to 2016
- **Total Construction Cost:** \$ 1,863
- **Total User Cost:** \$ 150
- **Total Revenue:** \$ 124
- **Total Cost:** **\$ 2,013**
- **Total Net Cost:** \$ 1,889

- **Total Capital Cost:** \$ 1,863



4

Reconstruct & Widen Later + EBS Reserve ROW with HOT



- **Description**
 - Intermittent pavement repairs and resurfacing from 2010 to 2016
 - Reconstruction and widening from 2017 to 2022
 - Adds Express Bus Service with stations (EBS) reserved ROW and High Occupancy Toll (HOT) Lanes 2017 to 2019
- **Total Construction Cost:** \$ 2,477
- **Total Other Cost:** \$ 786
- **Total User Cost:** \$ 233
- **Total Revenue:** \$ 45
- **Total Cost:** **\$ 3,496**
- **Additional Transit Cost:** \$ 525
- **Total Net Cost:** \$ 3,451

- **Total Capital Cost:** \$ 3,788

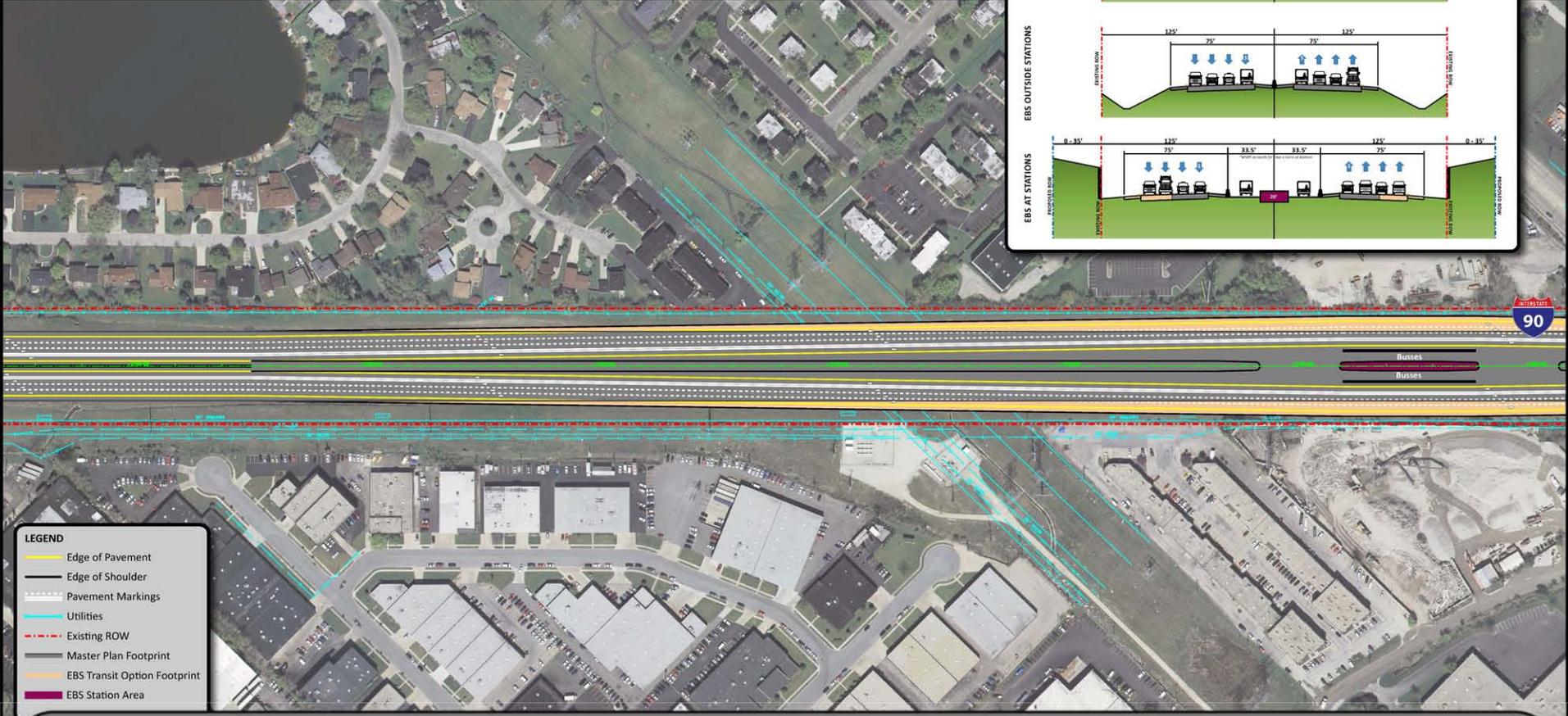
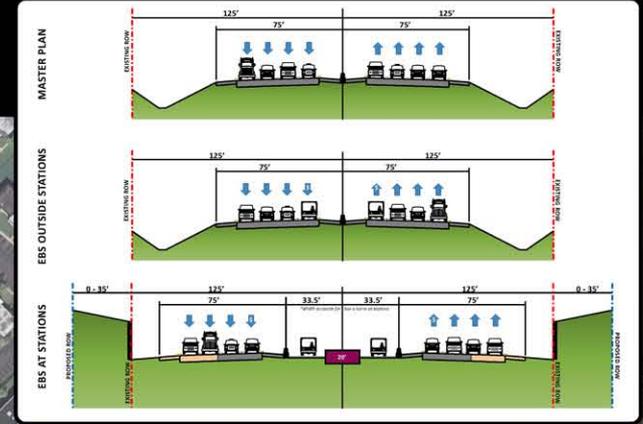


4

Express Bus Service with Stations



JANE ADDAMS MEMORIAL TOLLWAY (I-90) EBS East of Arlington Heights Road

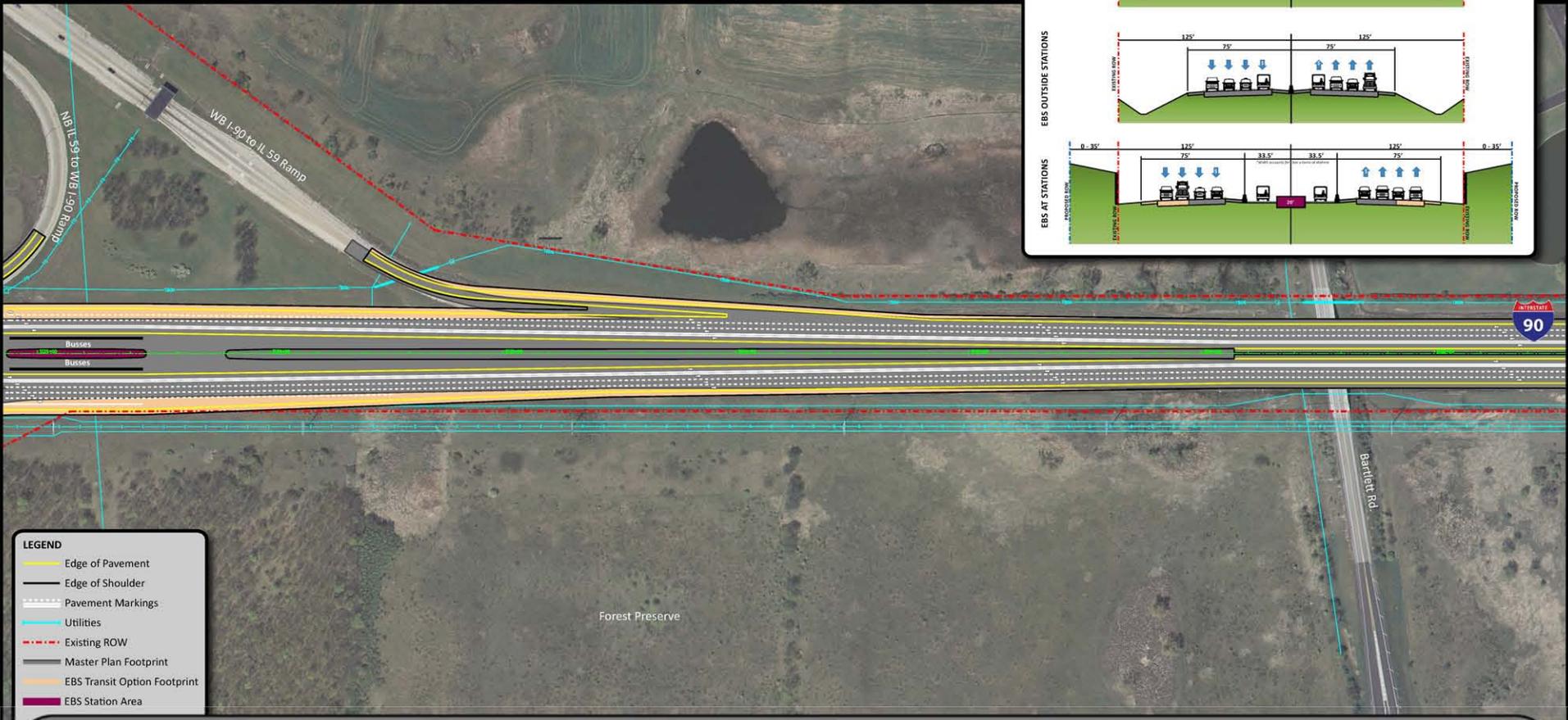
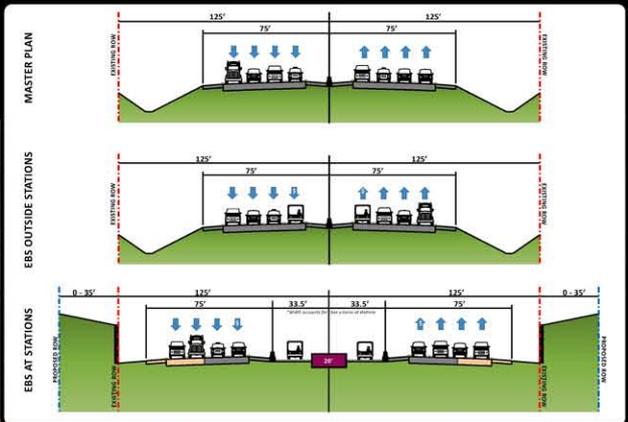


4

Express Bus Service with Stations



JANE ADDAMS MEMORIAL TOLLWAY (I-90) EBS East of IL 59



- LEGEND**
- Edge of Pavement
 - Edge of Shoulder
 - Pavement Markings
 - Utilities
 - Existing ROW
 - Master Plan Footprint
 - EBS Transit Option Footprint
 - EBS Station Area

5

Reconstruct & Widen Later + STAR Line Reserve ROW



- **Description**
 - Intermittent pavement repairs and resurfacing from 2010 to 2016
 - Reconstruction and widening from 2017 to 2022
 - Reserve ROW for Metra’s planned STAR Line commuter rail system in the median of I-90
- **Total Construction Cost:** \$ 2,477
- **Total Other Cost:** \$ 979
- **Total User Cost:** \$ 233
- **Total Revenue:** \$ 45
- **Total Cost:** **\$ 3,690**
- **Additional Transit Cost:** \$ 1,100
- **Total Net Cost:** \$ 3,645

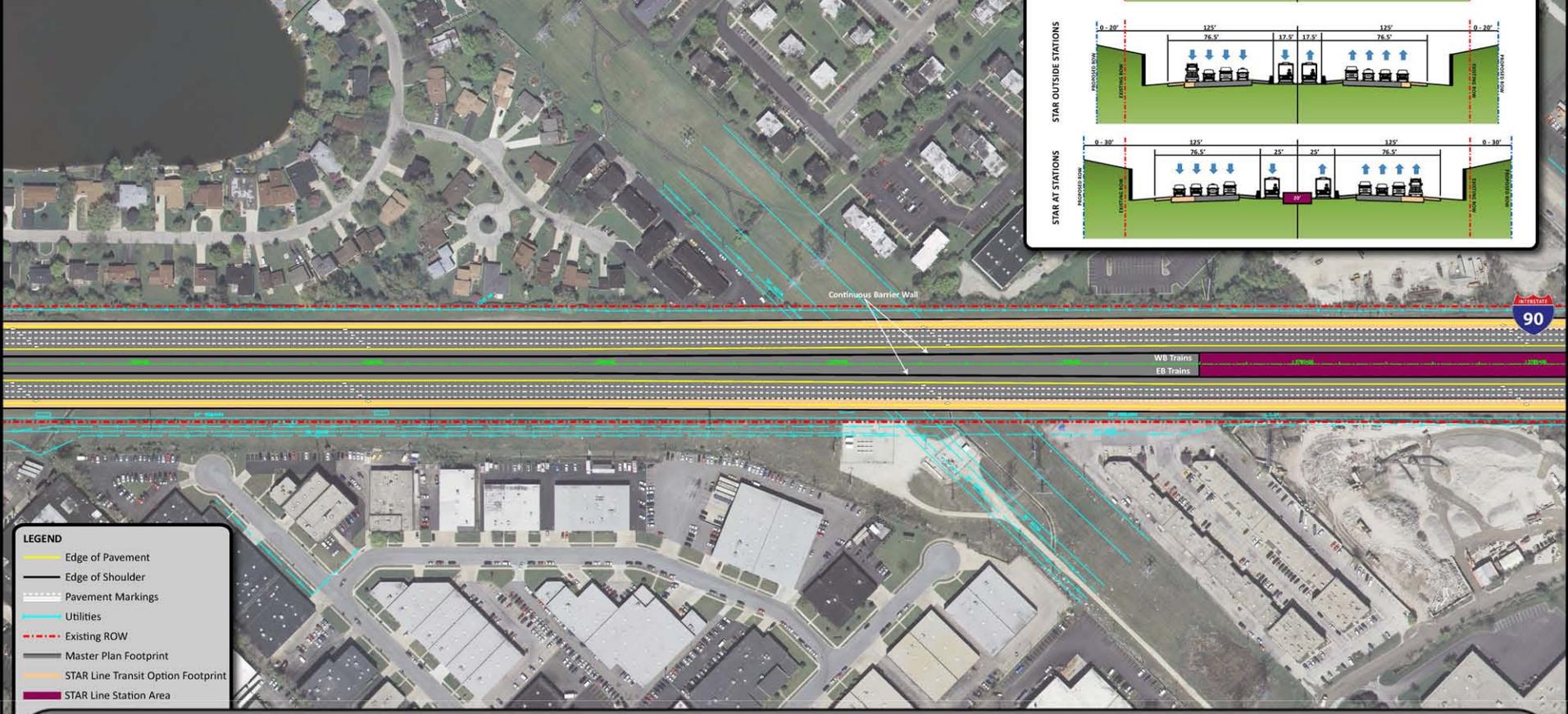
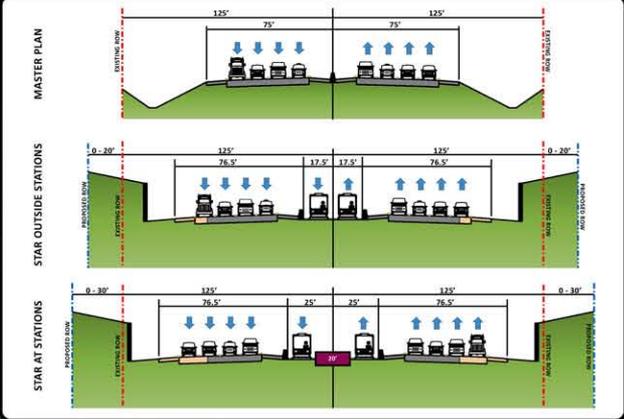
- **Total Capital Cost:** \$ 4,556

5

STAR Line Cross Sections



JANE ADDAMS MEMORIAL TOLLWAY (I-90) STAR Line East of Arlington Heights Road



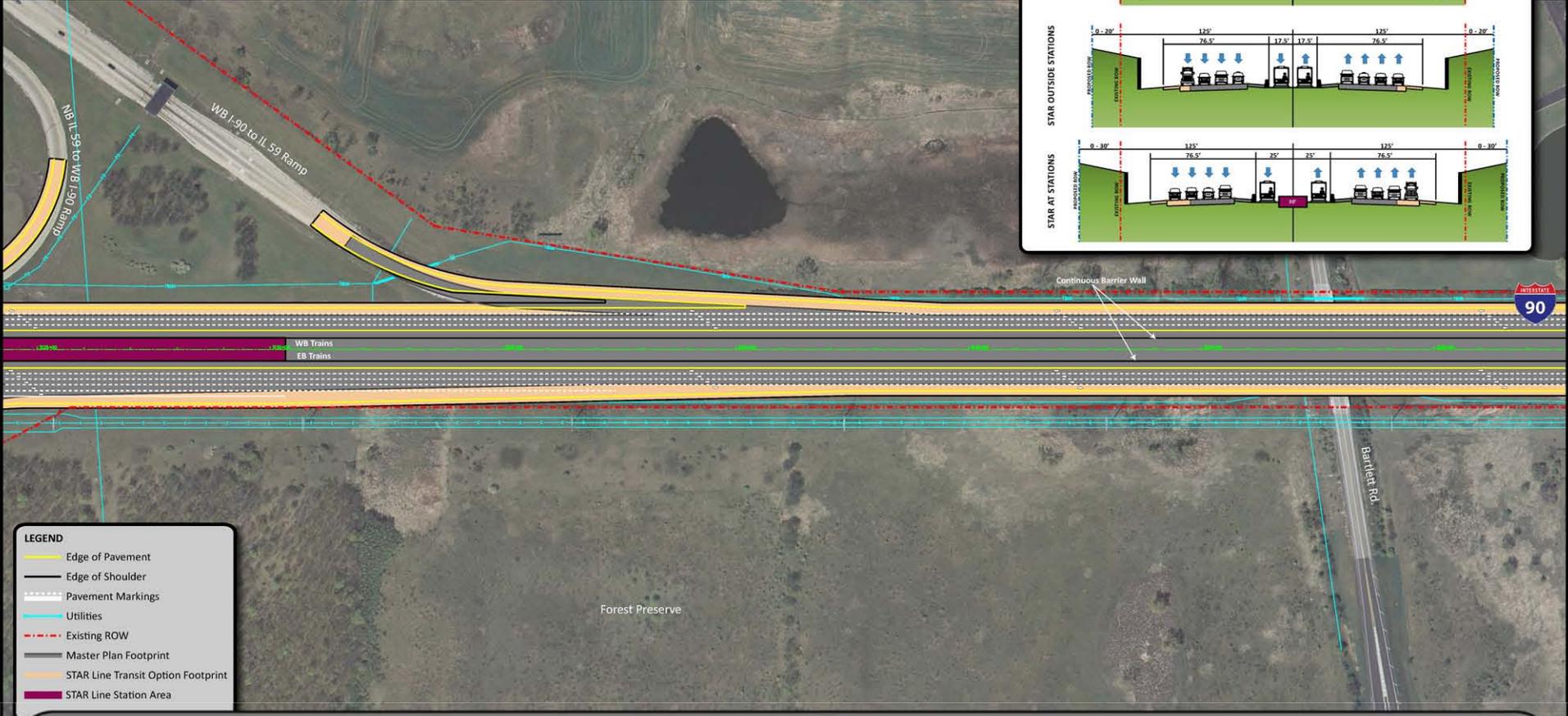
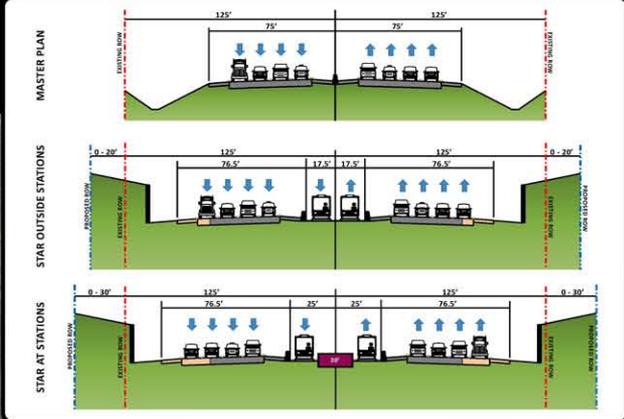
- LEGEND**
- Edge of Pavement
 - Edge of Shoulder
 - Pavement Markings
 - Utilities
 - Existing ROW
 - Master Plan Footprint
 - STAR Line Transit Option Footprint
 - STAR Line Station Area

5

STAR Line Cross Sections



JANE ADDAMS MEMORIAL TOLLWAY (I-90) STAR Line East of IL 59



- LEGEND**
- Edge of Pavement
 - Edge of Shoulder
 - Pavement Markings
 - Utilities
 - - - Existing ROW
 - Master Plan Footprint
 - STAR Line Transit Option Footprint
 - STAR Line Station Area

6

Reconstruct Later + STAR Line Reserve ROW



- **Description**
 - Intermittent pavement repairs and resurfacing from 2010 to 2016
 - Reconstruct (no widening) from 2017 to 2022
 - Reserve ROW for Metra’s planned STAR Line commuter rail system in the median on I-90
- **Total Construction Cost:** \$ 2,055
- **Total Other Cost:** \$ 979
- **Total User Cost:** \$ 372
- **Total Revenue:** \$ (32)
- **Total Cost:** \$ 3,406
- **Additional Transit Cost:** \$ 1,100
- **Total Net Cost:** \$ 3,438

- **Total Capital Cost:** \$ 4,134



7

Reconstruct & Widen Now + EBS Reserve ROW with HOT



- **Description**
 - Intermittent Pavement Repairs in 2010
 - Reconstruction & Widening from 2011 to 2013
 - Add Express Bus Service with stations (EBS) reserved Right of Way (ROW) and High Occupancy Toll (HOT) Lanes 2011 to 2013
- **Total Construction Cost:** \$ 1,863
- **Total Other Cost:** \$ 667
- **Total User Cost:** \$ 150
- **Total Revenue:** \$ 124
- **Total Cost:** **\$ 2,680**
- **Additional Transit Cost:** \$ 1,100
- **Total Net Cost:** \$ 2,556

- **Total Capital Cost:** \$ 3,055



8

Reconstruct West of STAR Line Now, East of IL-59 Later



- **Description**
 - Intermittent pavement repairs in 2010
 - Reconstruct and widen (I-39 to IL-59) and resurface (IL-59 to Kennedy Expressway) from 2011 to 2014
 - Reconstruct and widen (IL-59 to Kennedy Expressway) from 2017 to 2019
- **Total Construction Cost:** \$ 1,959
- **Total User Cost:** \$ 194
- **Total Revenue:** \$ 77
- **Total Cost:** **\$ 2,153**
- **Total Net Cost:** \$ 2,076

- **Total Capital Cost:** \$ 1,959



9 Do Nothing



- **Description**
 - Continuous annual repairs and resurfacing until the system fails
 - No added capacity or congestion relief
 - Deteriorating levels of service and average speed
- **Total Construction Cost:** \$ 2,011
- **Total User Cost:** \$ 372
- **Total Revenue:** \$ (43)
- **Total Cost:** \$ 2,383
- **Total Net Cost:** \$ 2,426

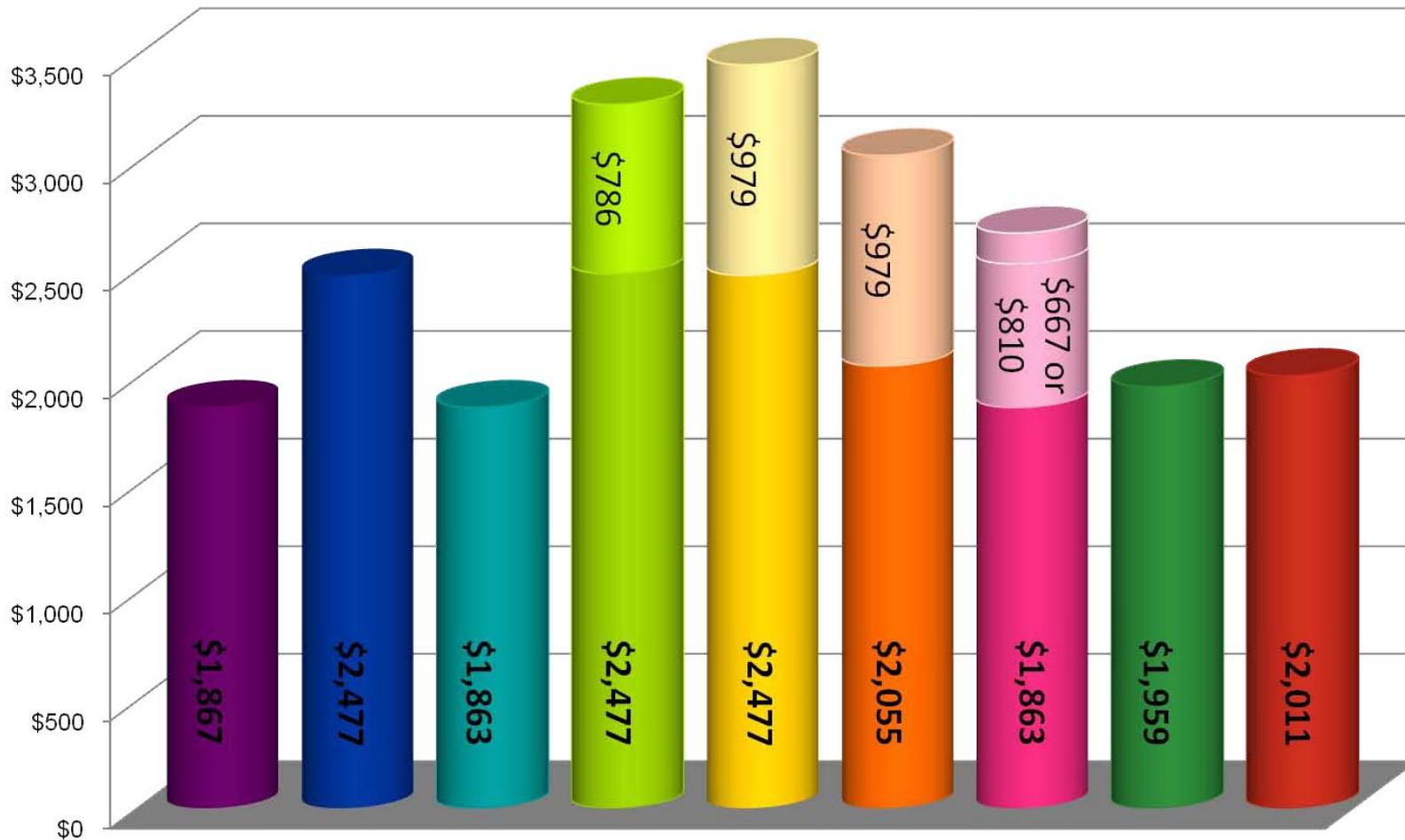
- **Total Capital Cost:** \$ 2,011



Total Cost without User Cost



**Does not include additional cost for transit*





QUESTIONS?

