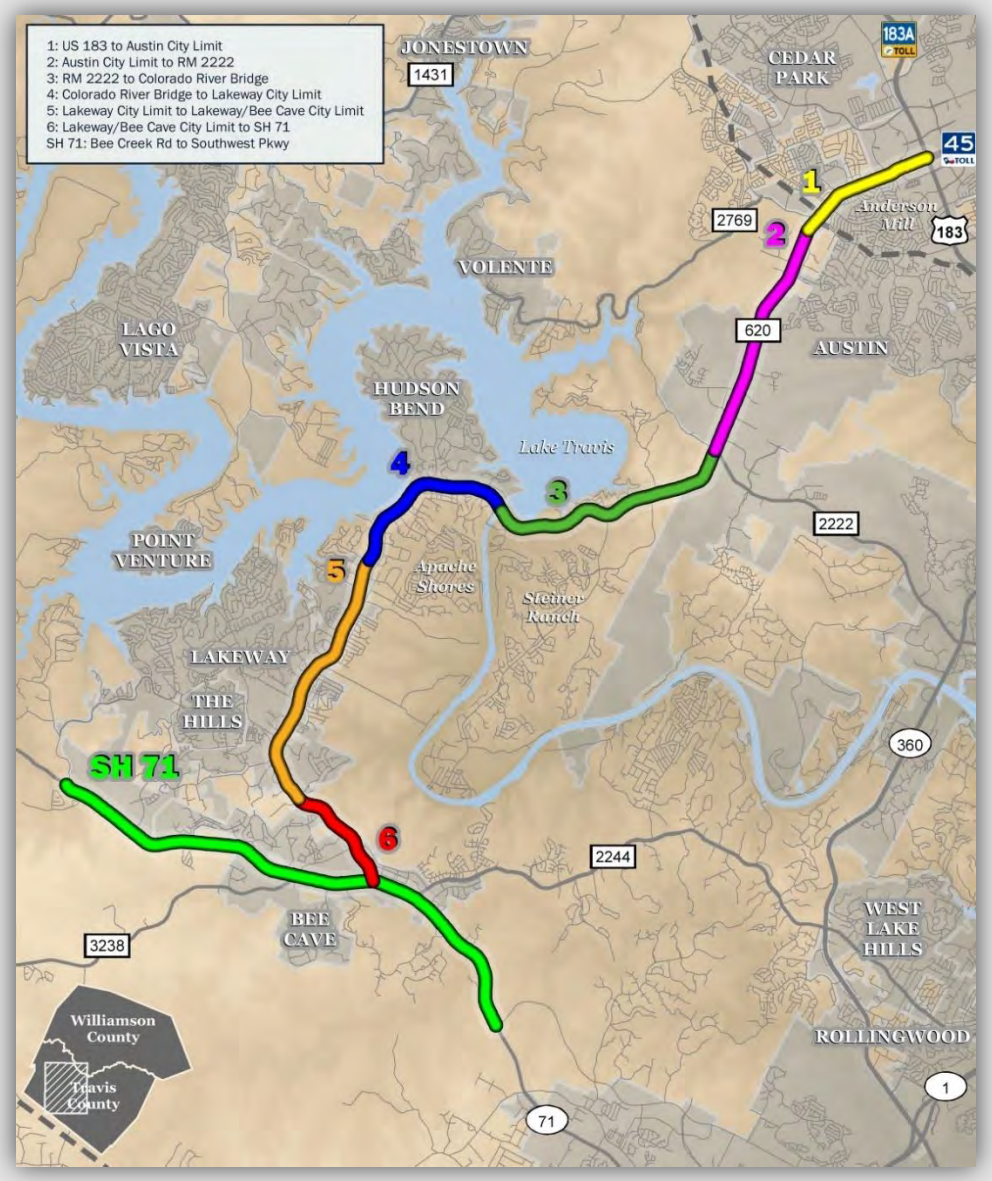
TEXAS DEPARTMENT OF TRANSPORTATION

RM 620 FEASIBILITY STUDY

March 16, 2017

RM 620 Study Area



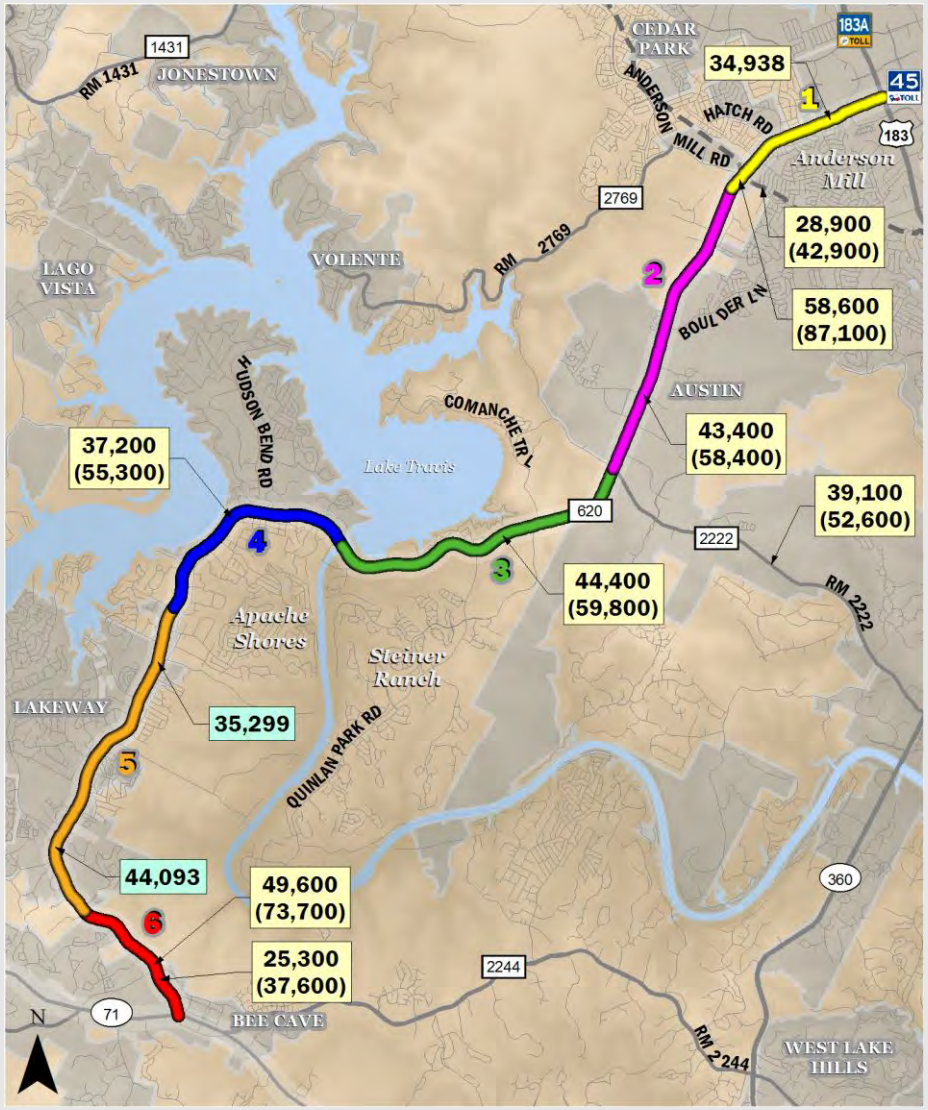
- Divided into **six** study sections
- RM 620 study limits:

  US 183 to **SH 71**
  (approximately 19 miles)
- RM 620 serves a dual function:

  urban thoroughfare
  &
  state highway
- Connects: Cedar Park
  Austin
  Lakeway
  Bee Cave

Existing and Forecasted Traffic Volumes

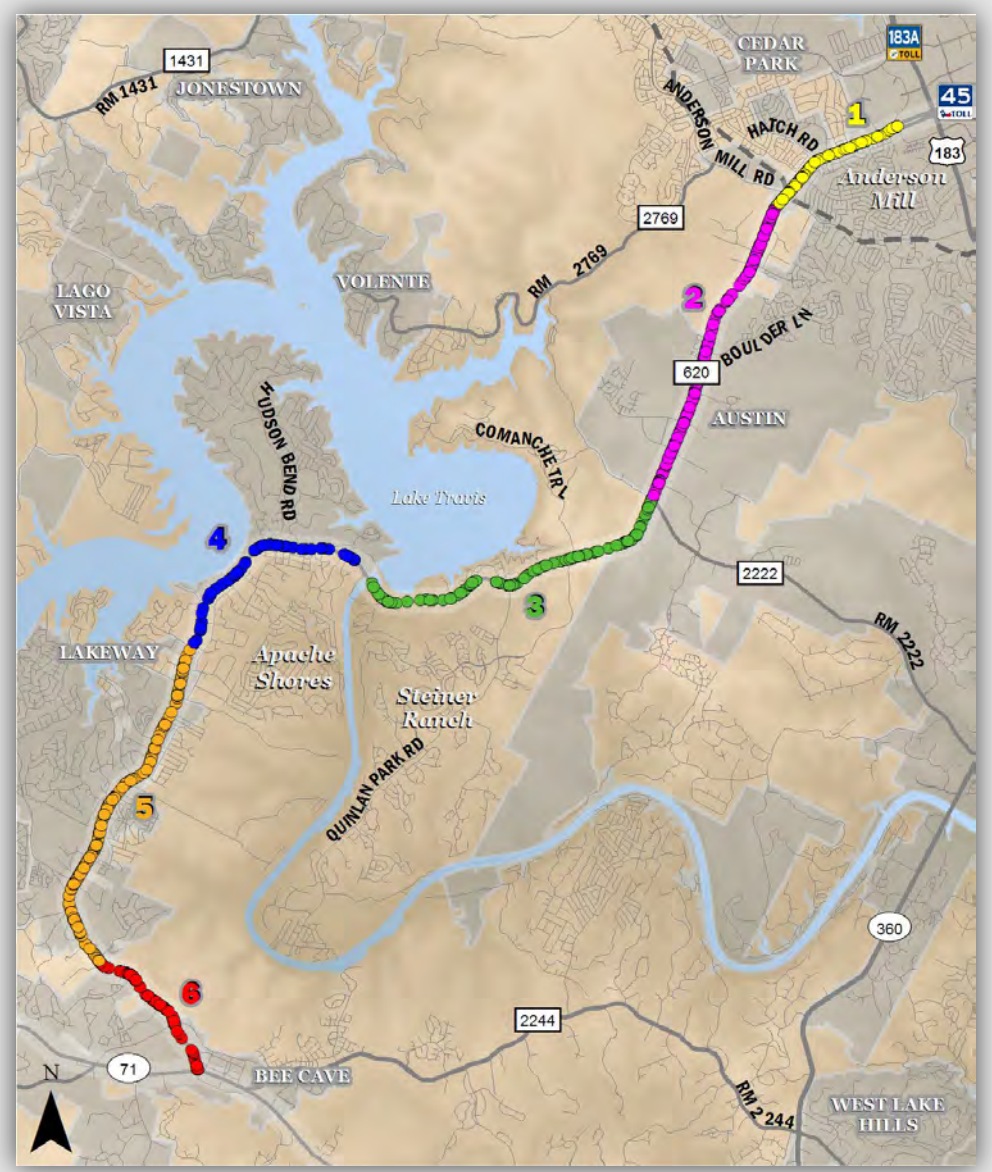
- Counts of vehicles per day
- 24-hour counts collected by HDR in 2015, shown in yellow
- Average annual daily traffic counts by TxDOT in 2015, shown in green
- HDR's daily traffic projections:
  - 2% annual growth through 2035
  - 1% annual growth between 2025 and 2035 in central sections near RM 2222
  - Forecasted conditions for **2035** shown in parentheses



Crashes (2010 – 2015)

Section	# of Crashes
1	305
2	398
3	285
4	173
5	556
6	191
Total	1,908

Each circle on the map (along RM 620) represents a crash that occurred at that location between 2010 and 2015.



Existing Traffic Conditions

Factors:

- Traffic volumes
- Levels of Service (LOS)
- Travel times
- Travel speeds

LOS	Example
A/B Light traffic, minimal delay	
C/D Moderate congestion, moderate delay	
E/F Heavy congestion and delay, long queues	

Existing vs. No Build Level of Service

This shows the results of not doing anything – failure of most intersections!

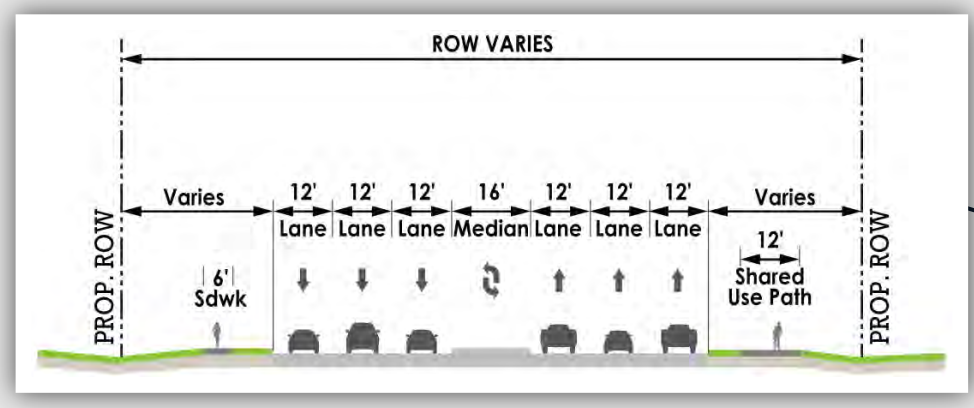
Intersection	Existing		2035 No Build	
	AM Peak	PM Peak	AM Peak	PM Peak
Section 1				
RM 620 Westbound / Pecan Park Boulevard	C	C	D	E
RM 620 Eastbound / Pecan Park Boulevard	B	C	C	C
RM 620 / Deerbrook Trail	A	A	C	B
RM 620 / Great Valley Drive / Lake Creek Parkway	C	D	F	F
RM 620 / Hatch Road	B	B	E	C
RM 620 / El Salido Parkway	D	D	F	F
RM 620 / Anderson Mill Road (RM 2769)	F	F	F	F
RM 620 / Plaza Volente / H-E-B	B	E	F	F
Section 2				
RM 620 / Buckner Road / Boulder Lane	D	E	F	F
RM 620 / Boulder Lane (South)	C	D	F	F
RM 620 / Concordia University Drive	B	D	F	F
RM 620 / Wilson Parke Avenue/Rock Harbour Drive	C	B	F	D
RM 620 / Four Points Drive	A	C	D	E
Section 3				
RM 620 / RM 2222	F	F	F	F
RM 620 / Comanche Trail	E	D	F	E
RM 620 / Quinlan Park Road	C	D	D	E
RM 620 / Marshall Ford Road	B	B	B	B
RM 2222 / River Place Boulevard	F	D	F	C
RM 2222 / Sitio Del Rio Boulevard	E	A	E	A
RM 2222 / McNeil Drive	C	C	F	C

Existing vs. No Build Level of Service

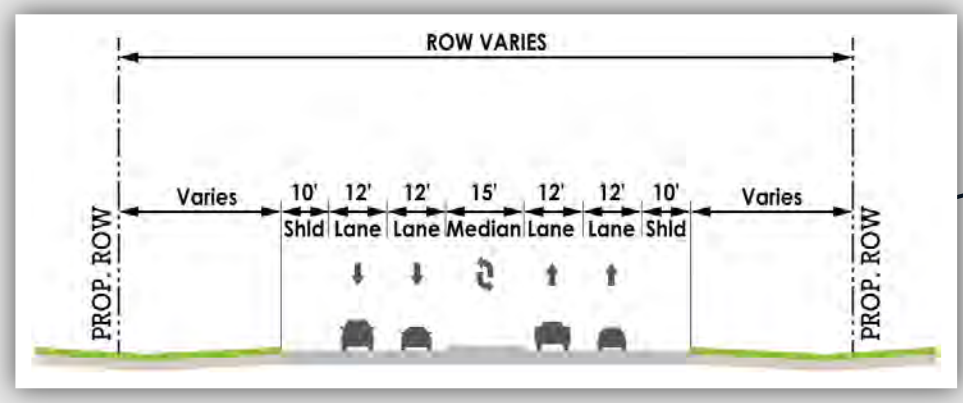
Intersection	Existing		2035 No Build	
	AM Peak	PM Peak	AM Peak	PM Peak
Section 4				
RM 620 / Hudson Bend Road	C	D	D	F
RM 620 / General Williamson Drive	B	D	D	D
Section 5				
RM 620 / Debba Drive	F	E	F	F
RM 620 / Kollmeyer Drive	B	B	E	E
RM 620 / Lakeway Boulevard	C	C	E	F
RM 620 / Lohmans Crossing Drive / Ameno Drive	E	F	F	F
RM 620 / Lohmans Spur Road	B	B	D	E
RM 620 / Flint Rock Road	B	B	F	F
RM 620 / Spillman Loop / Honey Creek Court	D	A	F	E
RM 620 / Cavalier Drive / Aria Drive	F	C	F	F
Section 6				
RM 620 / Falcon Head Boulevard	C	C	D	E
RM 620 / Ladera Boulevard	B	C	D	F
RM 620 / Bee Cave Parkway	E	E	F	F
RM 620 / SH 71	C	D	D	F

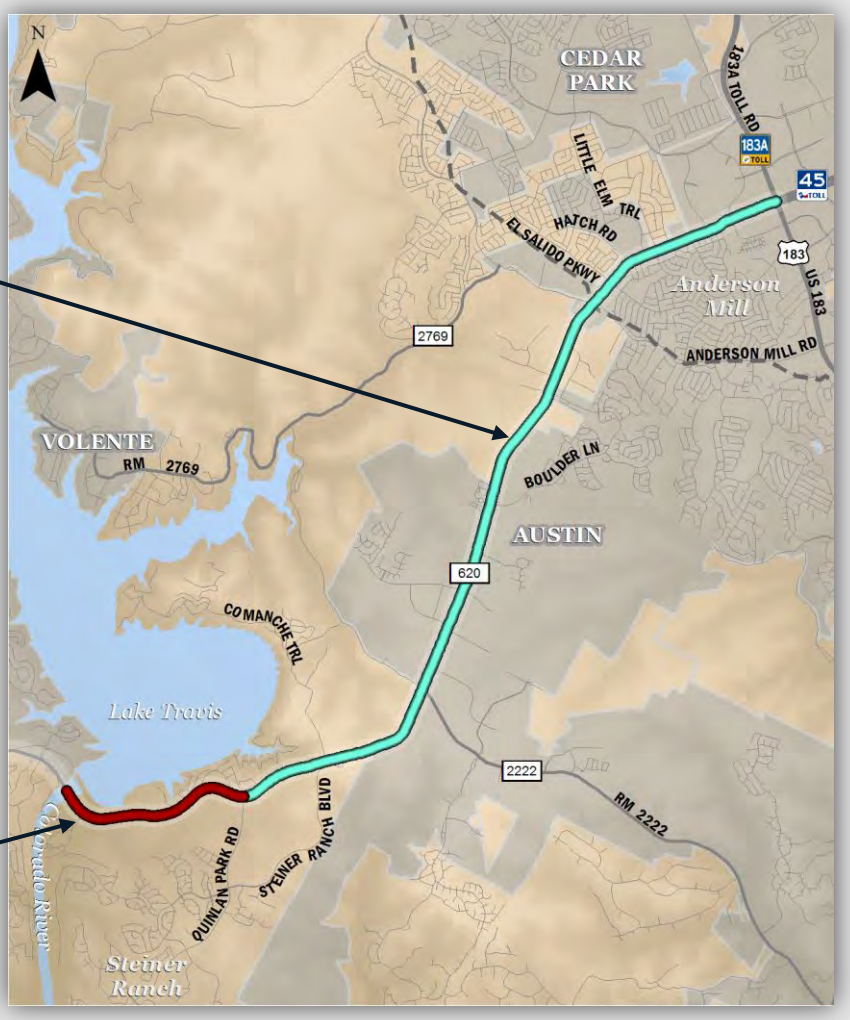
Proposed Roadway Configuration – Mid-Term

Quinlan Park Road to US 183



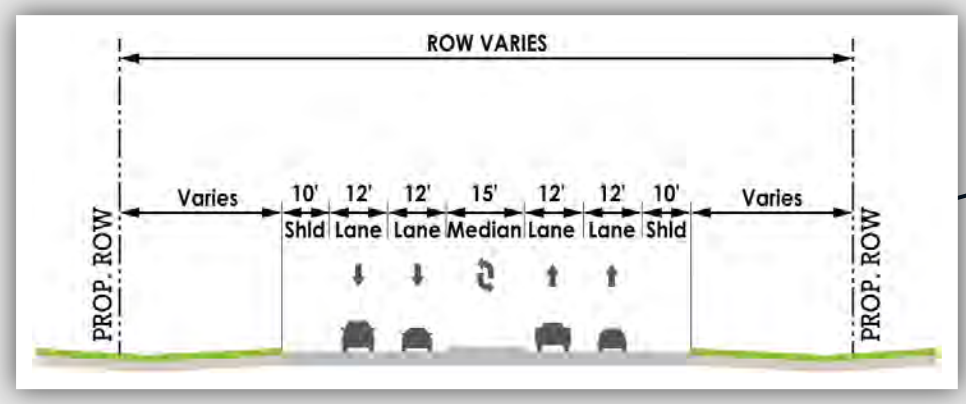
Colorado River Bridge to Quinlan Park Road



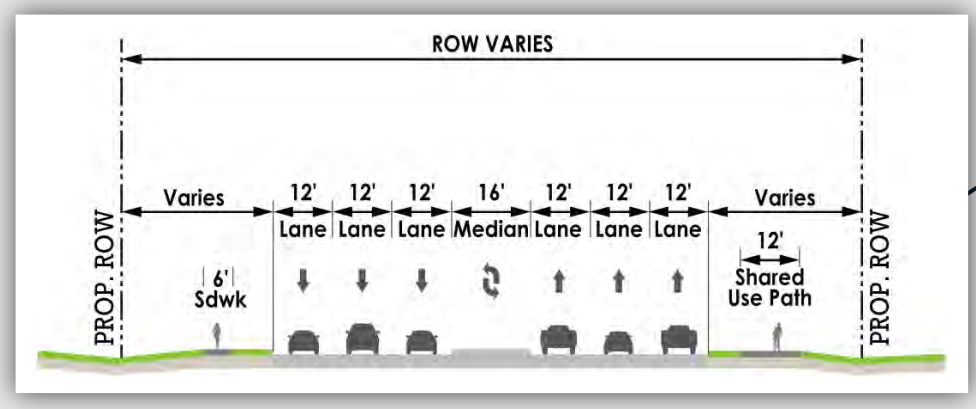


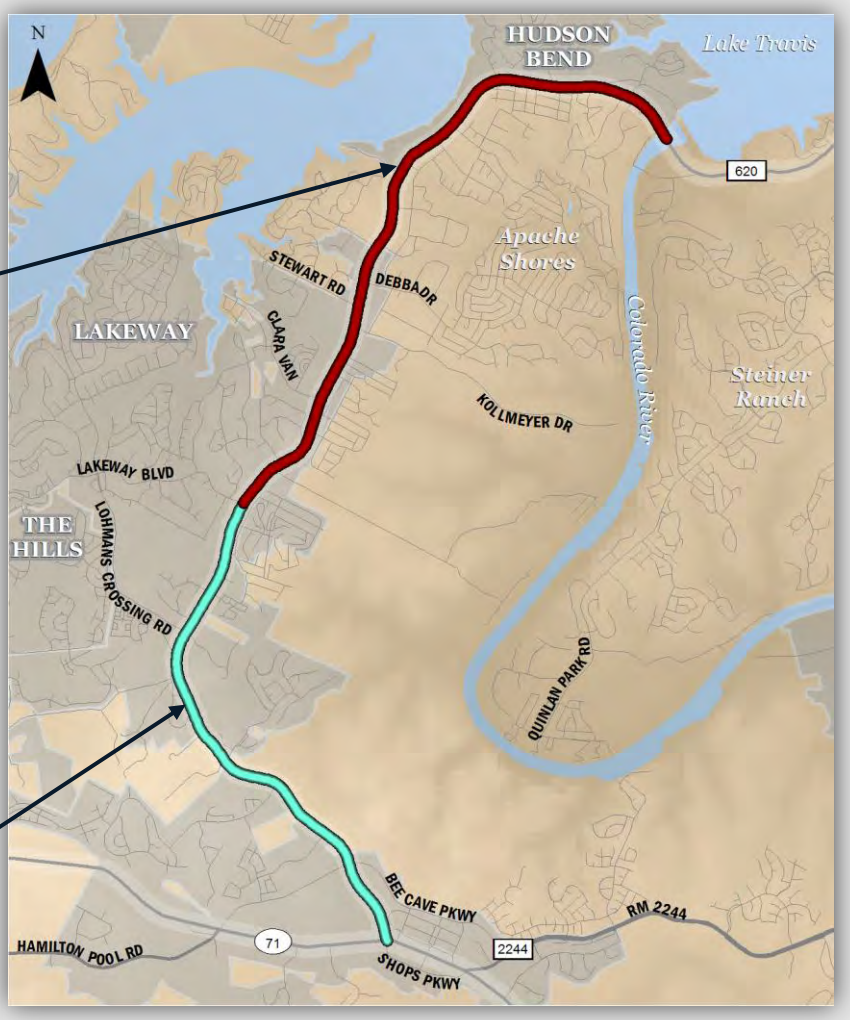
Proposed Roadway Configuration – Mid-Term

Lakeway Boulevard to Colorado River Bridge



SH 71 to Lakeway Boulevard





Left-In/Right-In/Right-Out Driveways (RM 1431, Cedar Park)

Example of a similar six-lane raised median divided roadway constructed on a wider right-of-way

2035 No-Build vs. Build Level of Service – Mid-Term Improvements

This shows what mid-term improvements will accomplish when fully completed.

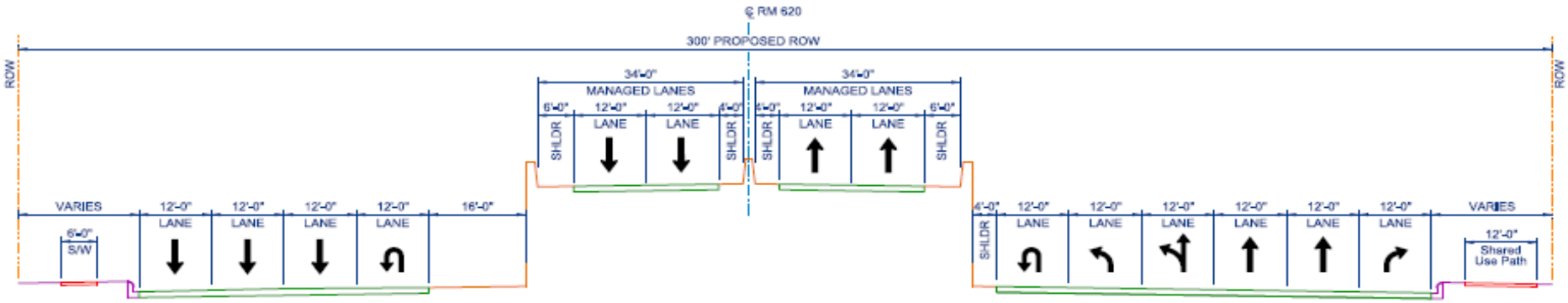
Intersection	No Build		Build	
	AM Peak	PM Peak	AM Peak	PM Peak
Section 1				
RM 620 Westbound / Pecan Park Boulevard	D	E	C	D
RM 620 Eastbound / Pecan Park Boulevard	C	C	C	C
RM 620 / Deerbrook Trail	C	B	B	A
RM 620 / Great Valley Drive / Lake Creek Parkway	F	F	B	D
RM 620 / Hatch Road	E	C	B	B
RM 620 / El Salido Parkway	F	F	D	D
RM 620 / Anderson Mill Road (RM 2769)	F	F	F	F
RM 620 / Plaza Volente / H-E-B	F	F	B	C
Section 2				
RM 620 / Buckner Road / Boulder Lane	F	F	D	D
RM 620 / Boulder Lane (South)	F	F	D	D
RM 620 / Concordia University Drive	F	F	B	D
RM 620 / Wilson Parke Avenue/Rock Harbour Drive	F	D	C	B
RM 620 / Four Points Drive	D	E	B	C
Section 3				
RM 620 / RM 2222	F	F	E	E
RM 620 / Comanche Trail	F	E	B	C
RM 620 / Quinlan Park Road	D	E	C	C
RM 620 / Marshall Ford Road	B	B	B	B
RM 2222 / River Place Boulevard	F	C	E	C
RM 2222 / Sitio Del Rio Boulevard	E	A	D	A
RM 2222 / McNeil Drive	F	C	F	C

2035 No-Build vs. Build Level of Service – Mid-Term Improvements

Intersection	No Build		Build	
	AM Peak	PM Peak	AM Peak	PM Peak
Section 4				
RM 620 / Hudson Bend Road	D	F	C	E
RM 620 / General Williamson Drive	D	D	D	D
Section 5				
RM 620 / Debba Drive	F	F	F	D
RM 620 / Kollmeyer Drive	E	E	E	E
RM 620 / Lakeway Boulevard	E	F	C	C
RM 620 / Lohmans Crossing Drive / Ameno Drive	F	F	C	D
RM 620 / Lohmans Spur Road	D	E	B	B
RM 620 / Flint Rock Road	F	F	B	B
RM 620 / Spillman Loop / Honey Creek Court	F	E	C	A
RM 620 / Cavalier Drive / Aria Drive	F	F	E	C
Section 6				
RM 620 / Falcon Head Boulevard	D	E	B	B
RM 620 / Ladera Boulevard	D	F	A	B
RM 620 / Bee Cave Parkway	F	F	F	E
RM 620 / SH 71	D	F	D	F

Long-Term – Limited-access lanes (ground level option)

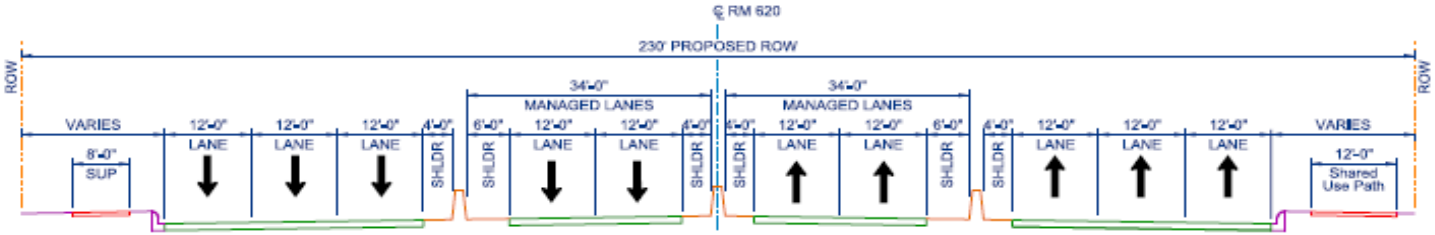
Between RM 2222 and US 183



ELEVATED 4-LANE MANAGED LANES @ MAJOR INTERSECTIONS

BETWEEN RM 2222 AND US 183

(DIRECT CONNECTORS @ RM 2222 AND US 183)

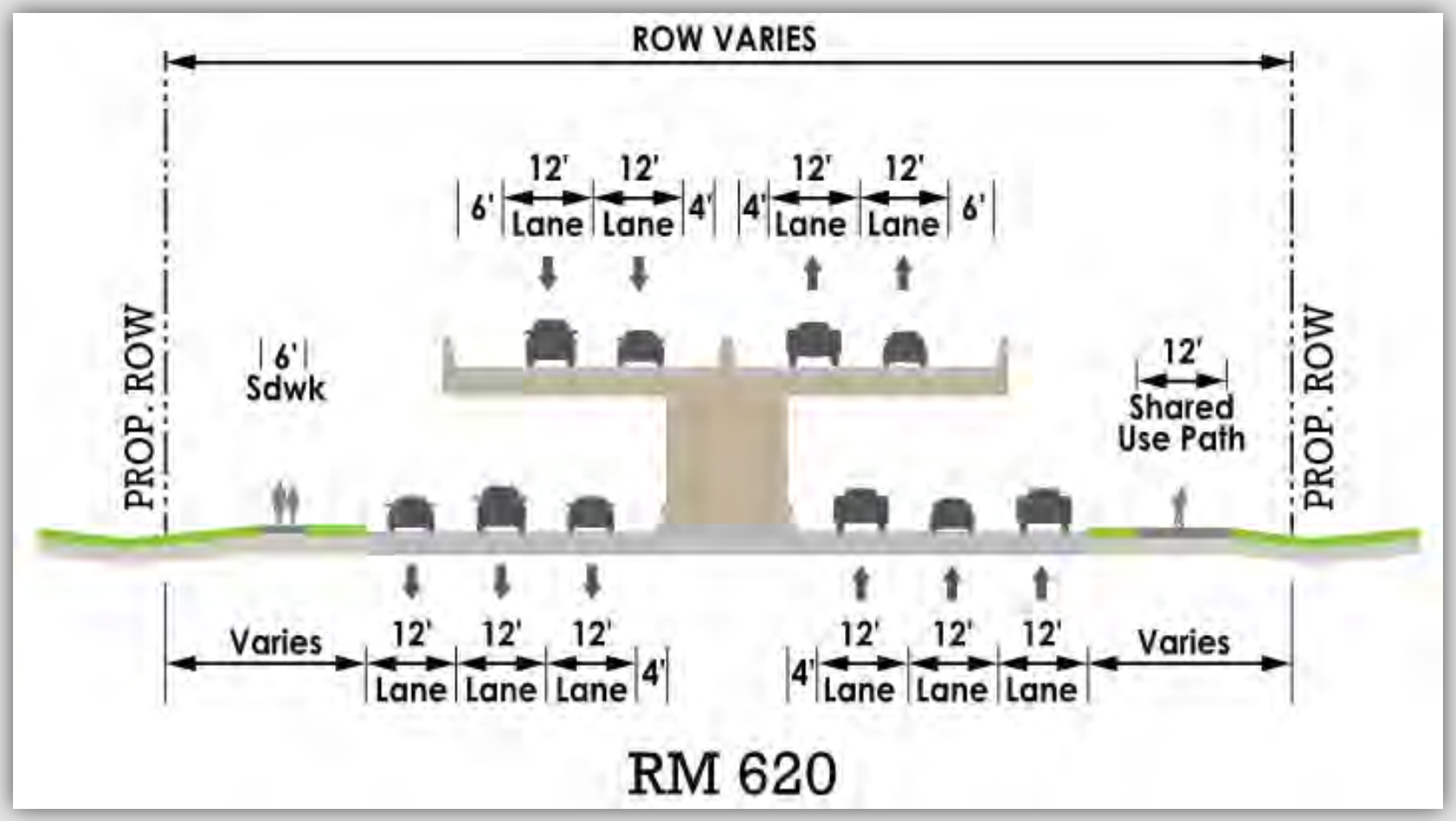


AT GRADE 4-LANE MANAGED LANES

BETWEEN RM 2222 AND US 183

Long-Term – Limited-access lanes (Elevated option)

Between RM 2222 and US 183



2035 Build Level of Service – Long-Term Improvements

Intersection	Mid-Term		Long-Term	
	AM Peak	PM Peak	AM Peak	PM Peak
Section 1				
RM 620 Westbound / Pecan Park Boulevard	C	D	B	C
RM 620 Eastbound / Pecan Park Boulevard	C	C	B	C
RM 620 / Deerbrook Trail	B	A	A	A
RM 620 / Great Valley Drive / Lake Creek Parkway	B	D	C	C
RM 620 / Hatch Road	B	B	A	A
RM 620 / El Salido Parkway	D	D	B	C
RM 620 / Anderson Mill Road (RM 2769)	F	F	E	D
RM 620 / Plaza Volente / H-E-B	B	C	A	A
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RM 620 / Buckner Road / Boulder Lane	D	D	B	B
RM 620 / Boulder Lane (South)	D	D	C	B
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RM 620 / RM 2222	E	E	D	E
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RM 620 / Marshall Ford Road	B	B	B	B
RM 2222 / River Place Boulevard	E	C	A	A
RM 2222 / Sitio Del Rio Boulevard	D	A	D	A
RM 2222 / McNeil Drive	F	C	C	C

2035 Build Level of Service – Long-Term Improvements

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RM 620 / Lakeway Boulevard	C	C	C	C
RM 620 / Lohmans Crossing Drive / Ameno Drive	C	D	C	D
RM 620 / Lohmans Spur Road	B	B	B	B
RM 620 / Flint Rock Road	B	B	B	B
RM 620 / Spillman Loop / Honey Creek Court	C	A	C	A
RM 620 / Cavalier Drive / Aria Drive	E	C	E	C
Section 6				
RM 620 / Falcon Head Boulevard	B	B	B	B
RM 620 / Ladera Boulevard	A	B	A	B
RM 620 / Bee Cave Parkway	F	E	F	E
RM 620 / SH 71	D	F	D	F

Cost Estimates

Improvement	Cost
Mid-Term Build	$173 million
Mid-Term ROW	$30 million
Long-Term (Elevated)	$620 million
Total	**$823 million**

DISCLAIMER: Cost estimates are for planning purposes only, and actual construction costs may differ.

CONTACT INFORMATION

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