

APPENDIX C 2035 TRAVEL DEMAND FORECASTING





**SOUTH LAMAR BOULEVARD
TRAFFIC FORECASTS**

**SOUTH LAMAR BOULEVARD CORRIDOR
DEVELOPMENT**



Date Prepared:

January 26, 2015

South Lamar Boulevard, designated as Loop 343 by Texas Department of Transportation (TxDOT), is a four-lane roadway divided by a two-way left-turn lane along the majority of its length between Riverside Drive and US 290/Ben White Boulevard. Capital Area Metropolitan Planning Organization (CAMPO) designates South Lamar Boulevard as a major arterial.¹ It provides mobility between South Austin and downtown as well as access to numerous businesses and residential neighborhoods and developments. TxDOT's Year 2013 average annual daily traffic (AADT) counts along South Lamar Boulevard show approximately 40,000 vehicles per day (vpd) north of Riverside Drive and approximately 39,000 vpd north of Manchaca Road.²

As part of the South Lamar Corridor Development project, HDR has developed Year 2035 AM peak and PM peak hour traffic volume forecasts (automobile, pedestrian, bicycle) at the following existing intersections along South Lamar Boulevard:

- Riverside Drive
- Barton Springs Road
- Treadwell Street
- Lamar Square Drive
- Hether Street/Mary Street
- Oltorf Street
- Bluebonnet Lane
- Manchaca Road
- Barton Skyway
- Panther Trail
- Brodie Oaks/Lamar Oaks driveways
- US 290/Ben White Boulevard (box diamond intersection)

Methodology

As a base, HDR used AM (7:30 – 8:30) and PM peak hour (5:00 – 6:00) automobile turning movement volumes, bicycle counts, and pedestrian counts collected in September 2014 at all corridor intersections listed above.

HDR compiled information from City of Austin's (CoA's) land development review website, "AMANDA," about the locations and land uses of proposed developments located along or adjacent to the South Lamar Boulevard corridor.³ Some of these developments were under construction during data collection, while others are still in the City's development review process.

HDR obtained historical daily traffic volume counts and forecasts from CAMPO and TxDOT for sections of South Lamar Boulevard and major connecting streets. CAMPO has projected average daily automobile

¹ CAMPO 2035 Regional Transportation Plan, Capital Area Metropolitan Planning Organization, Austin, Texas, Adopted May 24, 2010.

² 2013 Austin District Traffic Map, Texas Department of Transportation, Austin, Texas, 2014.

³ "AMANDA," Planning and Development Review Department, City of Austin, Austin, Texas, accessed December 2014 and January 2015.

traffic volumes for Years 2010 and 2035.⁴ TxDOT has established Year 2010 and Year 2030 AADT traffic counts/forecasts along South Lamar Boulevard.⁵

Background Traffic Growth

For the automobile traffic forecasts, HDR reviewed CoA's and TxDOT's historical daily traffic volume counts and forecasts to establish an annual peak hour background growth rate.^{2,6} Historical traffic counts show that daily automobile traffic volumes along South Lamar Boulevard have not significantly increased over time. The below table provides Year 2001 (CoA) and Year 2013 (TxDOT) daily traffic volumes at two locations along South Lamar Boulevard.

Count Location	Year 2001 (vpd)	Year 2013 (vpd)
North of Riverside Dr.	47,954	39,900
North of Manchaca Rd.	42,024	39,100

TxDOT has forecasted growth in AADT at 1.7 percent annually between 2010 and 2030 along the entire length of South Lamar Boulevard. HDR also consulted CAMPO's daily automobile traffic volume forecasts. Along South Lamar Boulevard, CAMPO's forecasted growth of daily traffic volumes varies between approximately 0.9 percent and approximately 1.4 percent annually between 2015 and 2035, depending on location along the corridor.

After considering the historical traffic volume growth trends, and CAMPO's and TxDOT's forecasts, HDR applied a one (1) percent annual growth rate to all automobile peak hour turning movement volumes at each intersection along the corridor. This results in an overall 23 percent growth in existing automobile volumes to yield Year 2035 peak hour volumes. The background growth reflects changes in traffic patterns, diversions to other travel modes, and incorporates changes in land uses through small projects. In addition to the background growth, HDR included trips generated by proposed land developments (discussed later in this memo).

HDR applied background growth rates to existing (Year 2014) peak hour pedestrian counts. Because most of the corridor has a great mix of land uses and existing pedestrian facilities, HDR applied a higher annual growth rate—four (4) percent. This results in a 128 percent overall growth in existing pedestrian volumes to yield Year 2035 estimates.

HDR applied a five (5) percent annual growth rate to existing peak hour bicycle counts, yielding 179 percent growth between existing (Year 2014) and Year 2035. Because the length of the corridor, approximately three (3) miles, is within typically acceptable bicycling distance, and half of the corridor is within three (3) miles of central downtown, growth in bicycle trips will likely significantly outpace the growth in automobile trips.

⁴ CAMPO 2005 Planning Model, Capital Area Metropolitan Planning Organization, Austin, Texas, July 2010.

⁵ Statewide Planning Map, Texas Department of Transportation, Austin, Texas, accessed January 21, 2015.

⁶ City of Austin Traffic Counts, Capital Area Metropolitan Planning Organization, Austin, Texas, updated November 12, 2013.



Corridor Land Development

HDR identified numerous land development projects that are either newly constructed or currently under review by CoA.⁷ They are listed in the table on the following page. The land use types and sizes are those submitted to CoA as part of the site plan application and may differ upon build-out.

These development projects were incorporated into the traffic forecasting methodology, in addition to the background traffic growth. HDR determined the numbers of AM peak and PM peak hour automobile trips that each development is expected to generate.⁸ For the PM peak hour, reductions due to “pass-by” were incorporated to reflect the character of the roadway as both a commuter route and a provider of access to local businesses.⁹

Trip Reductions

Based on feedback received from the community, there is a tremendous desire to convert this corridor from its current auto-centric focus to a truly multimodal transportation facility that provides world-class pedestrian, bicycle, and transit facilities to reduce auto dependency. This will result in automobile trips converting to other modes.

To account for transit trips, an automobile trip reduction of ten (10) percent, reflective of mature, robust transit operations along the corridor, was applied to the development-generated trips.

Pedestrian and bicycle trips were each assumed to comprise five (5) percent of the projected trips.

Projected pedestrian and bicycle volumes were increased above background growth forecasts due to the effects of new residential development along South Lamar Boulevard and Barton Springs Road and their proximity to downtown and Lady Bird Lake. Pedestrian volumes were also increased at the south end of the corridor to account for new residential development. Bicycle volumes were modified to reflect increased commuter traffic between downtown and the proposed residential developments.

HDR assumed modest combined transit, pedestrian, and bicycle mode share of 20 percent along the South Lamar Boulevard corridor for the new developments coming on line. To be conservative, HDR did not assume any diversion of automobile trips to pedestrian, bicycle, or transit modes. Annual growth in the use of these modes is expected to exceed that of automobile traffic growth. The City may consider more aggressive assumptions (e.g., between 25 percent and 30 percent combined mode share) to meet its own assumptions or stated goals for the corridor. For example, CoA has recently identified bicycle mode share goals of 15 percent in the central city and five (5) percent citywide by Year 2020.¹⁰ CoA’s commitment to Complete Streets may also have a significant effect on alternative mode shares.

⁷ “AMANDA,” Planning and Development Review Department, City of Austin, Austin, Texas, accessed December 2014 and January 2015.

⁸ *Trip Generation Manual*, 9th Ed., Institute of Transportation Engineers, Washington, DC, 2012.

⁹ *Trip Generation Handbook*, 2nd Ed., Institute of Transportation Engineers, Washington, DC, 2004.

¹⁰ *2014 Austin Bicycle Plan*, Review Copy, City of Austin Transportation Department, Austin, Texas, 2014.

**SOUTH LAMAR BOULEVARD CORRIDOR DEVELOPMENT
JANUARY 26, 2015**

Project/Development	Address	Nearest Cross Street	Land Use(s) Type	Size
211 South Lamar	211 S. Lamar Blvd.	Riverside Dr.	Apartments	198 DU
			Retail	4,657 SF
Zilkr on the Park	408 Sterzing St.	Barton Springs Rd.	Multi-family	76 DU
Coldwater	1717 Toomey Rd./	Toomey Rd./	Restaurant	4,900 SF
	1720 Barton Springs Rd.	Barton Springs Rd.	Multi-family	227 DU
1155 Barton Springs	1155 Barton Springs Rd.	Barton Springs Rd.	Condominium	50 DU
			Apartments	15 DU
904 Lamar Building	904-906 S. Lamar Blvd.	Treadwell St.	Office	7,943 SF
Hanover South Lamar	809 S. Lamar Blvd.	Juliet St.	Apartments	340 DU
			General Office	7,011 SF
Lamar Union	1000 S. Lamar Blvd.	Treadwell St.	Apartments	448 DU
			Restaurant	47,145 SF
			Retail	18,590 SF
			Movie theater	9 screens
1300 Plaza II	1300 S. Lamar Blvd.	Lamar Square Dr.	Liquor store	2,314 SF
			Bar	2,280 SF
Post South Lamar II	1414 S. Lamar Blvd.	Lamar Square Dr.	Apartments	351 DU
			Restaurant	6,000 SF
Loro Restaurant	2115 S. Lamar Blvd.	Kinney Ave.	Restaurant	9,000 SF
Bluebonnet Studios	2301 S. Lamar Blvd.	Del Curto Rd.	Studio apartments	107 DU
Abel's Rib House	2330 S. Lamar Blvd.	Bluebonnet Ln.	Restaurant	7,993 SF
Cielo South Lamar	2717 S. Lamar Blvd.	Manchaca Rd.	Apartments	325 DU
			Retail	8,375 SF
			Townhouse	42 DU
The 704 Apartments	3401 S. Lamar Blvd.	Westrock Dr.	Apartments	240 DU
			Retail	10,667 SF
			Restaurant	8,000 SF
			Coffee shop	3,500 SF
Eskew Place	3600 S. Lamar Blvd.	Panther Tr.	Multi-family	69 DU
			Restaurant	unknown
In-N-Out Burger	3701 S. Lamar Blvd.	Panther Tr.	Restaurant	3,750 SF

DU = dwelling units
SF = square feet



Results

After establishing background automobile, pedestrian, and bicycle traffic volume growth along the corridor and identifying land development projects under construction or under review, HDR combined the respective resultant traffic volume sets from the two forecasting steps. As a result, annual automobile traffic volume growth varied from a minimum of one (1) percent (background growth only) at some locations (e.g., side streets without identified future development projects) to over 1.5 percent at others (e.g., some through South Lamar Boulevard through movements, near the southern end of the corridor). Side street movements near large future developments grew at even greater rates. The results are the Year 2035 AM peak and PM peak hour traffic volume forecasts, which are attached.

To compare the forecasted traffic growth rates discussed in the above sections, Figure 1 and Figure 2 provide the existing (Year 2014) PM peak hour (highest automobile volume time period) South Lamar Boulevard bi-directional traffic count and the effects of the various forecasted growth rates on those volumes. Two locations along South Lamar Boulevard are shown—(1) south of Barton Springs Road and (2) south of Barton Skyway.

Figure 1: Y2035 PM Peak Hour Automobile Traffic Growth – South of Barton Springs Rd.

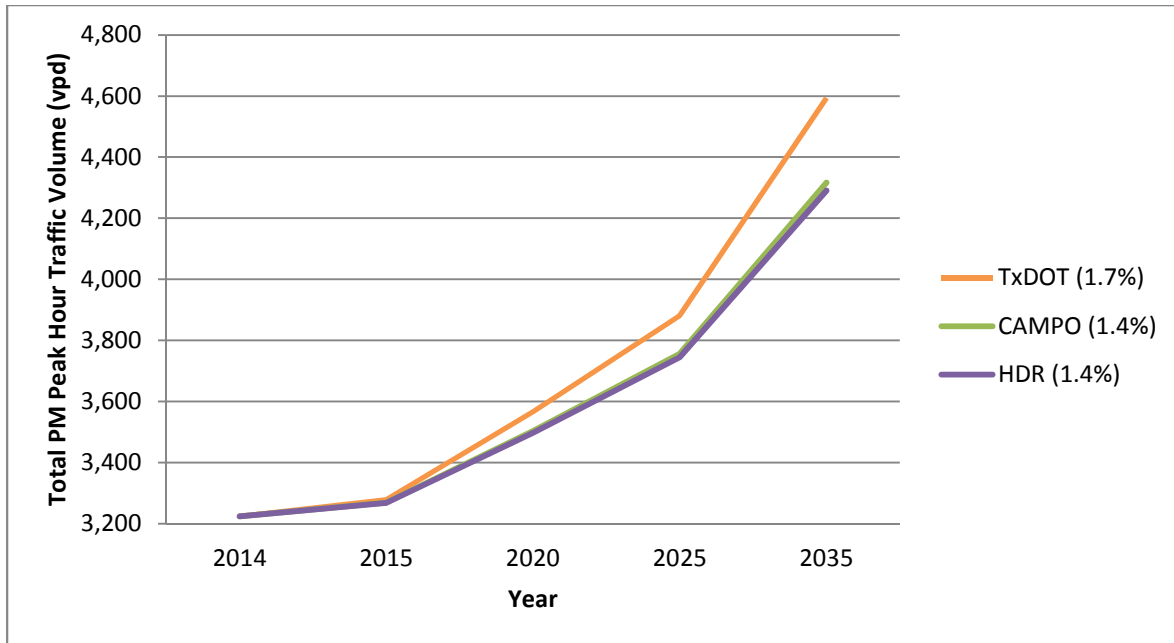
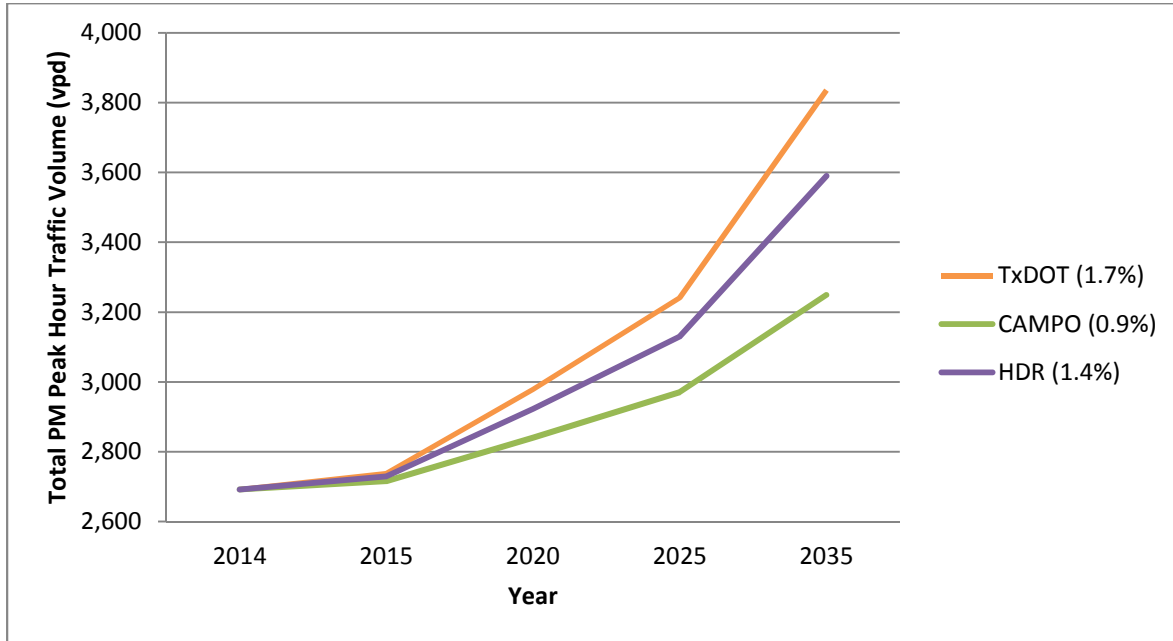


Figure 2: Y2035 PM Peak Hour Automobile Traffic Growth – South of Barton Skyway



Conclusions

In the north section of the corridor, as shown in Figure 1, HDR's final forecasted peak hour growth (background growth plus future development) are in line with CAMPO's projections. TxDOT's forecasts account for more significant automobile traffic volume increases, though its 1.7 percent annual growth rate applies to corridor AADT. In this section of the corridor, already heavily congested during the peak hours, capacity constraints dictate that South Lamar Boulevard cannot accommodate significant increases in automobile traffic during the peak hour. Significant increases in peak hour demand will result in that demand being serviced outside of the peak hour. In addition, the more significant TxDOT-forecasted growth would likely occur outside of the peak hours.

In the south section of the corridor, as shown in Figure 2, HDR's final forecasted peak hour growth (background growth plus future development) exceed CAMPO's projections. Here again, TxDOT's forecasts account for more significant automobile traffic volume increases, though its 1.7 percent annual growth rate applies to corridor AADT. In this section of the corridor, capacity constraints are not as significant as in the northern section closer to downtown. As a result, the corridor can likely accommodate more significant automobile traffic growth than CAMPO's forecasts.

For this task, HDR's forecasts only attempt to account for the Year 2035 weekday AM peak and PM peak hours. In reality, daily traffic volumes may increase at the higher rate that TxDOT has forecasted. Capacity constraints along/adjacent to the corridor (e.g., the Lamar Boulevard bridge over Lady Bird Lake) limit throughput, resulting in traffic pattern changes, such as the extension in time of the AM peak and PM peak periods to two or three hours each.

SOUTH LAMAR BOULEVARD CORRIDOR DEVELOPMENT

2014 Existing AM Peak Traffic Volume

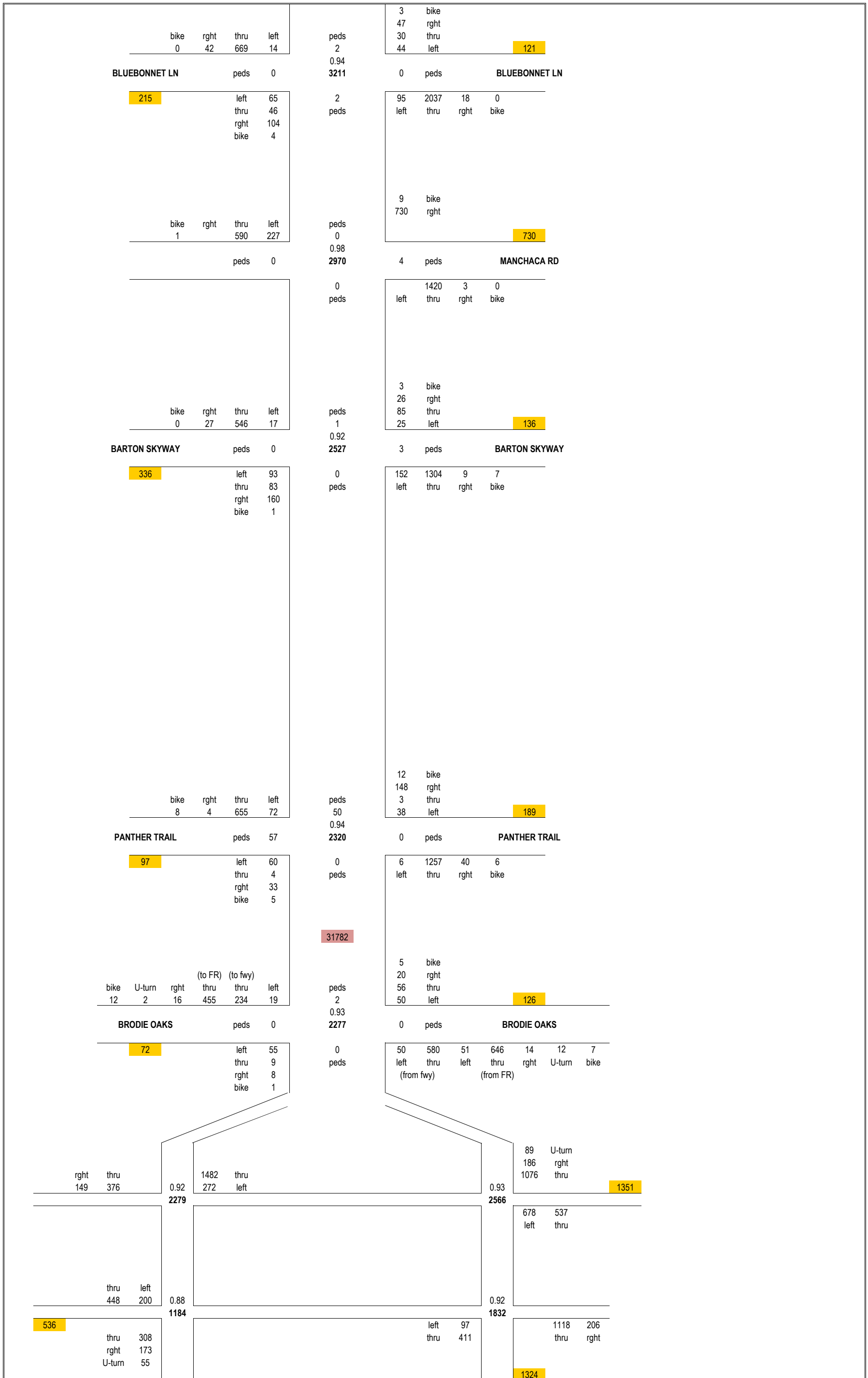
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X.XX = Intersection peak hour factor
 XXXX = Intersection total volume

 = Approach volume
 = 24-hour bi-directional volume





SOUTH LAMAR BOULEVARD CORRIDOR DEVELOPMENT

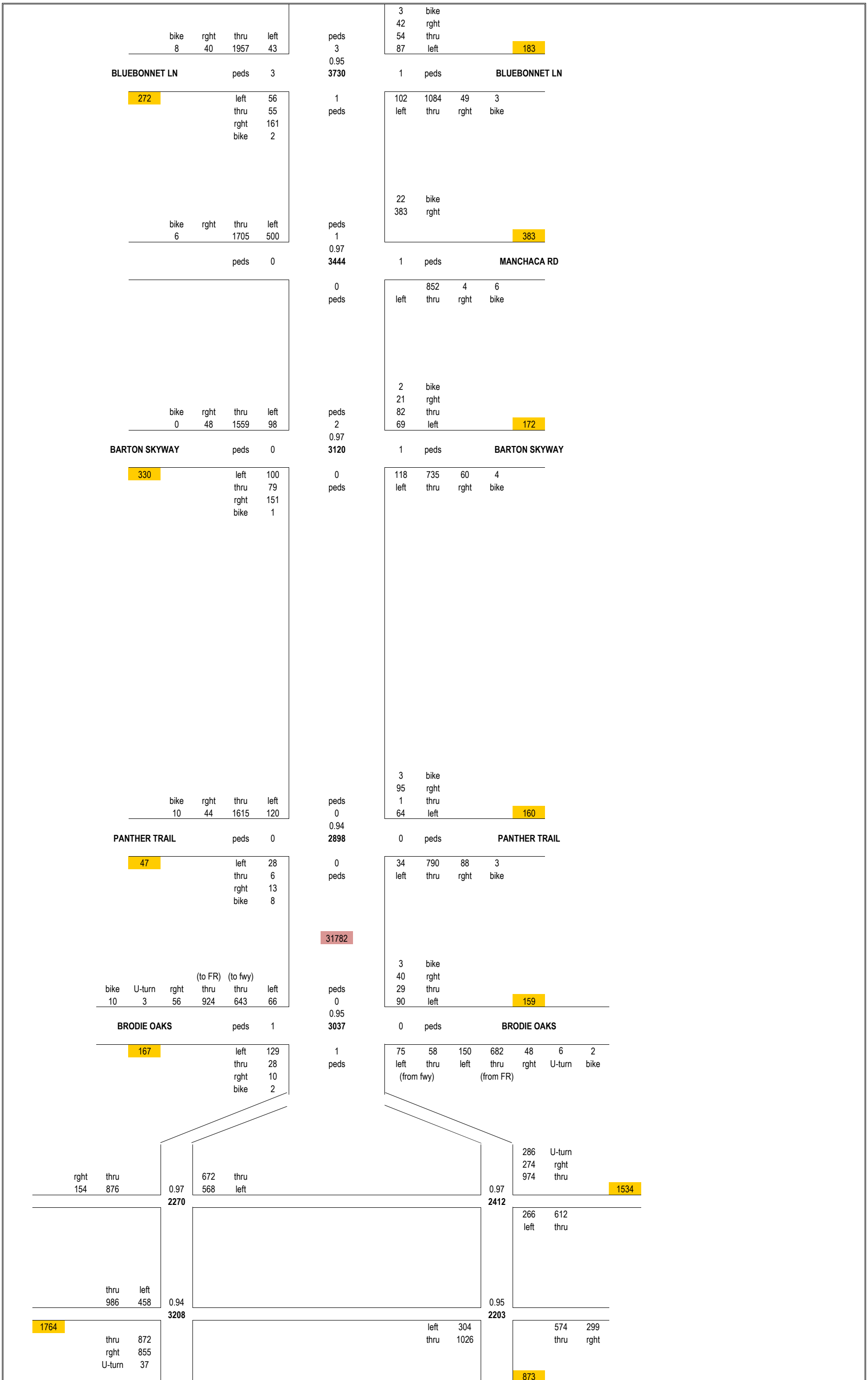
2014 Existing PM Peak Traffic Volume

5:00 - 6:00 PM

S. LAMAR																						
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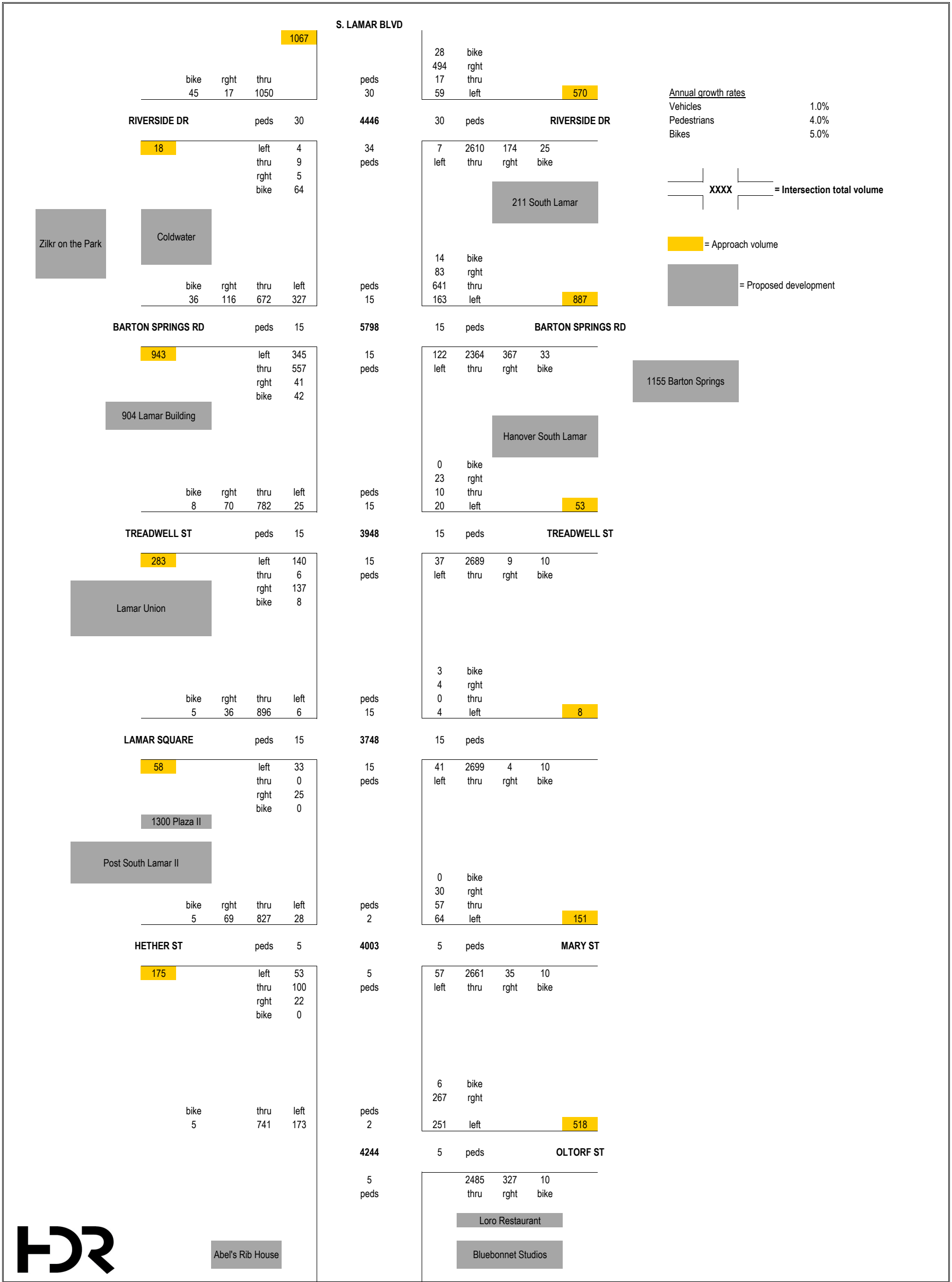
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XXXX		= Intersection total volume

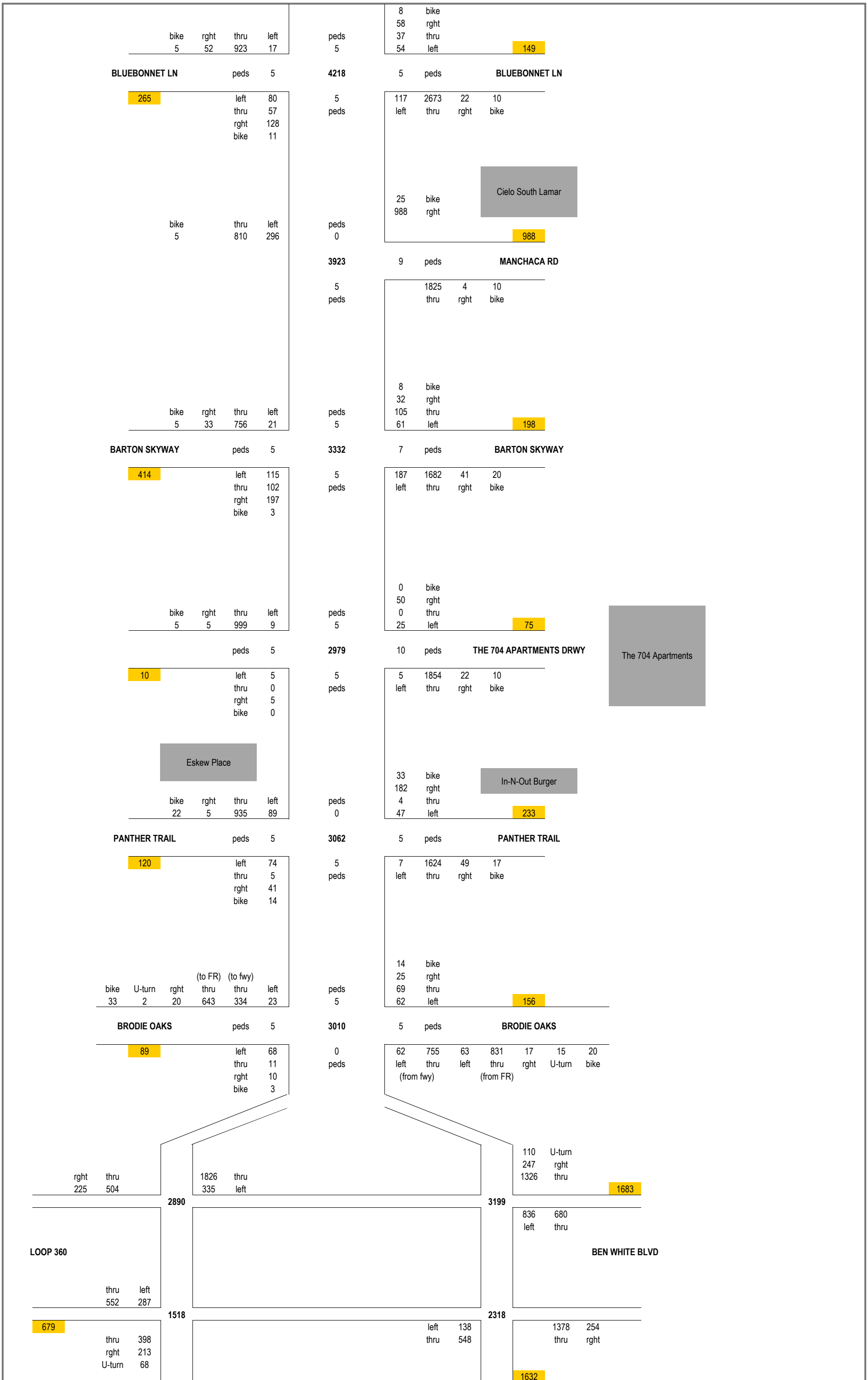
	= Approach volume
	= 24-hour bi-directional volume



SOUTH LAMAR BOULEVARD CORRIDOR DEVELOPMENT

2035 Forecasted AM Peak Traffic Volumes





SOUTH LAMAR BOULEVARD CORRIDOR DEVELOPMENT

2035 Forecasted PM Peak Traffic Volumes

