

# Appendix E Cost Estimates

Webb County-City of Laredo Regional Mobility Authority March 2020

Prepared by: HNTB Corporation

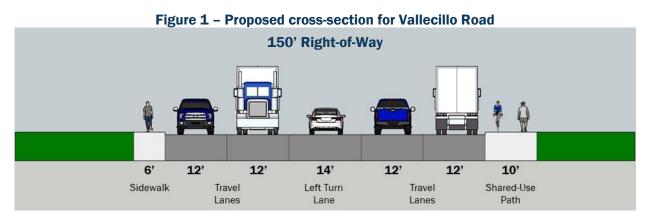
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### **Basis for Cost Estimating**

The first step toward estimating cost and establishing right-of-way is to understand a roadway's intended cross-section (see **Figure 1**), which may or may not fit within the existing right-of-way, and when combined with the length of a potential project provides a clear assumption for material quantities and project complexity that can be used to develop probable construction cost. Unit cost assumptions came from TxDOT and City of Laredo 2019 average bid item unit prices. Major project element quantities, such as pavement, sidewalk, and bridges, were estimated to produce a roadway construction cost. The roadway construction cost then provides a basis for estimating additional project construction costs (i.e. drainage, traffic control) as well as professional services as percentages of that cost. As a project is developed further, beyond this study, the costs will be refined and are likely to change.



The *Future Thoroughfare Plan* was the basis for establishing desired street cross-sections. This essential component of the *VIVA Laredo* plan is meant to provide guidance for how and where new roadways should be implemented throughout the region over the next few decades. An initial traffic analysis provided key information about where congestion is the most prevalent and helped to inform possible modifications to the prescribed cross-sections, especially when considering the number of freight trucks operating in the area daily and accounting for their size. When considering localized traffic patterns and congestion, modifications were explored through further traffic analysis and indicated some degree of benefit across the roadway network when additional capacity was tested. As the study progressed, modified cross-sections based on the initial traffic analysis were used to determine cost and right-of-way needs, though whenever possible, the *Future Thoroughfare Plan* served as the basis for each cross-section.

Following this study, projects not already in progress will need to be initiated by defining their scope and the need with all project partners in agreement. Funding will also have to be identified. Then, the project will be further defined through schematic design, and any potential environmental impacts will be identified and mitigated. This is when the general public will have an opportunity to review the proposed project and provide comments. This is a formal process that is required by the state or federal government, depending upon the project scope and funding sources. Once all environmental approvals are acquired, the project moves into the design phase where detailed plans and specifications are refined along with the project's cost estimate.

As the project becomes more defined and progresses through the project development process, the certainty of the estimated capital costs increases. Changes to the initial cost estimate are expected

and reflect changes that may be a result of the project development process. As stated above, costs are based on each project's intended cross-section, understanding which aspects of that section need to be built, calculating the length of the improvement, quantifying materials needed to construct the project and then calculating a cost based on unit prices from recent similar TxDOT and City of Laredo capital projects. Costs shown in this appendix are planning-level estimates and rounded up to the nearest thousand dollars. It should be noted that the costs included in this study represent an estimate of probable costs prepared in good faith and with reasonable care. The costs of construction labor, materials, equipment, internal staffing and operations structure, or results from bidding cannot be controlled. **Section 4** of the main report contains more descriptive detail on what is included in each project. This appendix provides more detailed line items that feed into each cost.

**Table 1** provides an overview of all project costs in FY19 dollars, which is how they were calculated, then applies a 3.5% annual inflation factor, which reflects the potential Year-of-Expenditure (YOE) amount since the project cost can be expected to increase by the time it would be let for construction, consistent with the implementation plan in **Section 5** of the main report.

ro	pject List combined with Schedule accounti	ng for Infla	tion 2019 \$		Implementation planning tool to time. This is <b>no</b>	assess costs
rage #	Facilities		FY19 Total Cost	YOE Total Cost	Opening Year	Const. Duratio (Years)
	Capital Cost Inflation Factor				update as	appropriate
2	FM 1472 - Mines Road Capacity Upgrades	\$	18,905,000	\$ 19,909,000	2022	
	Milo Road Extension	\$	14,713,000	\$ 16,598,000	2024	
	Hachar Parkway	\$	55,530,000	\$ 60,526,000	2023	
	Pedestrian/Bike Improvement Projects I	\$	5,610,000	\$ 6,438,000	2024	
	Vallecillo Road	\$	31,471,000	\$ 34,302,000	2023	
		\$	126,229,000	\$ 137,773,000		
	Aquero Boulevard	\$	59,134,000	\$ 71,462,000	2026	
	Carrier Drive Extension	\$	5,255,000	\$ 6,136,000	2025	
	Sara Road & Milo Road Widening	\$	39,163,000	\$ 49,846,000	2028	
	Hachar Parkway Extension	\$	79,461,000	\$ 108,554,000	2032	
	Pedestrian/Bike Improvement Projects II	\$	12,239,000	\$ 15,045,000	2026	
	Port Drive Widening & Extension	\$	24,742,000	\$ 33,170,000	2030	
	Uniroyal Drive Widening & Extension	\$	31,315,000	\$ 41,982,000	2030	
	Vallecillo Road Extension	\$	40,887,000	\$ 49,411,000	2026	
ō	FM 3338 - Las Tiendas Road Widening	\$	45,000,000	\$ 60,293,000	2029	
3	International Boulevard Extension	\$	15,889,000	\$ 19,873,000	2027	
7	McPherson Road Extension	\$	21,096,000	\$ 26,386,000	2027	
3	United Avenue Extension	\$	16,799,000	\$ 21,012,000	2027	
		\$	390,980,000	\$ 503,170,000		
)	FM 1472 - Mines Road Widening to Freeway	\$	772,674,000	\$ 1,148,501,000	2033	
)	North-South Boulevard (unnamed)	\$	137,807,000	\$ 197,909,000	2032	
	Trade Center Boulevard Extension	\$	28,241,000	\$ 43,447,000	2034	
	Verde Boulevard Extension	\$	70,112,000	\$ 117,508,000	2036	
	East-West Boulevard (unnamed)	\$	174,827,000	\$ 336,238,000	2040	
	Sara Road Extension	\$	103,068,000	\$ 185,047,000	2038	
	TX 255 Widening	\$	129,388,000	\$ 248,847,000	2040	
		\$	1,416,117,000	\$ 2,277,497,000		

#### Table 1 – Overview of project costs with annual inflation

North Laredo-Webb County Transportation Planning Study

Construction Cost Escalation Rate

Assumptions

3.50

#### **Description of Costs in this Appendix**

This appendix provides a level of detail behind each cost estimate that reflects what costs can be expected to be associated with each phase of project development after project initiation. There may be additional feasibility studies or data collection done to properly initiate some of these projects, which could be a nominal additional cost. The project development process is illustrated in **Figure 2**.



Cost estimates in this appendix are provided in tables similar to **Table 2**. Many recommended capital projects have been organized as components combined into project packages. Information about project extents, length and acreage of right-of-way is included. The page number in the main report where more detail about each project is found in the top right corner of each table. A 20% contingency was placed on the construction cost to account for variability and unknown factors. Estimates in this study are considered to be fairly conservative, assuming challenging site conditions and using the most durable materials. As development of the project progresses, some savings may be realized. In some cases, the right-of-way cost may be negotiable with the property owner, though this should not be assumed. Property values, particularly in the denser locations where these projects are being proposed, are particularly high and therefore right-of-way costs can be fairly substantial, depending on the project.

Table 2 -	Format of	cost	estimate	tables	in	this	appendix	

Project Package Name	Section 4 Page #
Individual Project Name	
Limits From: Project begins	Limits To: Project ends
	Estimated Cost (FY19)
Length: Project Length (miles)	ROW: Total ROW Area (acres)
Environmental & Planning	Costs associated with Project Planning
Plans, Specs & Estimate	Costs associated with Project Development
Construction Engineering & Inspection	Professional Services during Construction
Right-of-Way	Estimated Right-of-Way cost (\$1-\$20/sf)
Construction Cost	Total Cost of Construction
Contingency (20%)	20% contingency on Construction
Total Project Cost (FY19)	Total Individual Project Cost
Project Priority (Short- Mid- Long-Term)	Assumed Opening Date: 2020
Total Package	Cost (FY19) Sum of Individual Projects

### **Detailed Cost Estimates**

FM 1472 - Mines Road Capac	city Upgrades	Page 42	
A) FM 1472 Widening			
Limits From: Big Bend Boulevard	Limits To: Killam Industrial E	Boulevard	
		Estimated Cost	
Length: 1.4 miles	ROW: 0.0 acres		
Construction Cost	\$	4,168,000	
Total Project Cost (FY19)	\$	4,168,000	
Short-Term Project	Assumed Openi	ing Date: 2022	
B) IH 69W Bridge Widening			
Limits From: World Trade Bridge POE	Limits To: US 59 (Loop 20)		
		Estimated Cost (FY19)	
Length: 0.33 miles	ROW: 0.0 acres		
Construction Cost	\$	13,457,000	
Total Project Cost (FY19)	S	13,457,000	
Short-Term Project	Assumed Opening Date: 2022		
C) Killam Industrial Boulevard Turn La	nes		
Limits From: 1500' north of Killam Industrial Blvd.	Limits To: 500' east of FM 1	472	
		Estimated Cost (FY19)	
Length: 0.5 miles	ROW: 0.0 acres		
Construction Cost	\$	1,280,000	
Total Project Cost (FY19)	\$	1,280,000	
Short-Term Project	Assumed Openi	ing Date: 2022	
Total Pa	ckage Cost S	18,905,000	

#### FM 1472 – Mines Road Capacity Upgrades

Each of these three project components is fully funded and entering the Project Development Phase. <u>A) FM 1472 Widening</u> cost estimate is found in the Laredo MPO Transportation Improvement Program 2019-2022. <u>B) IH 69W Bridge Widening</u> cost estimate is found on the TxDOT Project Tracker website. <u>C) Killam Industrial Boulevard Turn Lanes</u> construction cost estimate was done by HNTB Corporation.

Milo Road Extension		Page 43
A) Milo Road Extension		
Limits From: FM 1472	Limits To: River Bank Drive	
		Estimated Cost (FY19)
Length: 0.5 miles	ROW: 2.5 acres	
Environmental & Planning	\$	423,000
Plans, Specs & Estimate	\$	846,000
Construction Engineering & Inspection	\$	677,000
Right-of-Way	\$	2,196,000
Construction Cost	\$	8,880,000
Contingency (20%)	\$	1,691,000
Total Project Cost (FY19)	s	14,713,000
Short-Term Project	Assumed Ope	ning Date: 2024
Total Packag	e Cost (FY19) \$	14,713,000

#### Milo Road Extension

This project has not been initiated and has no funding. Estimate done by HNTB Corporation.

Hachar Parkway		Page 44
Hachar Parkway - Phase I & II		
Limits From: FM 1472	Limits To: IH 35	
		Estimated Cost
Length: 8.5 miles	ROW: 412 acres	
Phase I & II PS&E	\$	1,634,000
Phase I Total (FM 1472 to Beltway)	\$	32,455,000
Phase II Total (Beltway to IH 35)	\$	21,441,000
Total Project Cost	\$	55,530,000
Short-Term Project	Assumed Open	ning Date: 2023
Total Paci	(age Cost \$	55,530,000

#### Hachar Parkway

This project has partial funding (Phase I) and is in the Project Planning phase. The cost estimate was found in a presentation by Webb County (dated June 18, 2018) that was available on the Laredo MPO website in January 2020.

Vallecillo Road		Page 46
A) Vallecillo Road		
Limits From: FM 1472	Limits To: IH 35	
		Estimated Cost
Length: 2.8 miles	ROW: 51 acres	
Environmental & Planning	\$	539,000
Plans, Specs & Estimate	\$	2,690,000
Construction Engineering & Inspection	\$	1,417,000
Right-of-Way	\$	-
Construction Cost	\$	22,525,000
Contingency (20%)	\$	4,300,000
Total Project Cost	\$	31,471,000
Short-Term Project	Assumed Op	ening Date: 2023
Total	Package Cost \$	31,471,000

#### Vallecillo Road

This project has partial funding and is in the Project Planning phase. Estimate was done by HNTB Corporation.

Pedestrian/Bike Improvemen	t Projects I	Page 45
A) Killam Industrial Boulevard Improve	ments	
Limits From: FM 1472	Limits To: 1H 35	
		Estimated Cost (FY19)
Length: 2.4 miles	ROW: 0.0 ac	
Environmental & Planning	\$	135,000
Plans, Specs & Estimate	\$	270,000
Construction Engineering & Inspection	\$	216,000
Right-of-Way	\$	-
Construction Cost	\$	2,697,000
Contingency (20%)	\$	539,000
Total Project Cost (FY19)	\$	3,857,000
Short-Term Project	Assumed Oper	ning Date: 2024
B) River Bank Drive Sidewalk Gaps		
Limits From: Aquero Boulevard	Limits To: FM 1472	
		Estimated Cost (FY19)
Length: 0.8 miles	ROW: 0.0 ac	
Environmental & Planning	\$	15,000
Plans, Specs & Estimate	\$	29,000
Construction Engineering & Inspection	\$	24,000
Right-of-Way	\$	-
Construction Cost	\$	295,000
Contingency (20%)	\$	59,000
Total Project Cost (FY19)	s	422,000
Short-Term Project		
	Assumed Oper	ning Date: 2024
O) Divers Devel, Daily, Cirkey, II., O Devel-		
C) River Bank Drive Sidewalks & Prote	ected Bike Lane	
C) RIVER BANK DRIVE SIDEWAIKS & PROTE Limits From: IH 69W	ected Bike Lane Limits To: Aquero Boulevar	d
		d Estimated Cost (FY19)
Limits From: IH 69W	Limits To: Aquero Boulevar	
Limits From: IH 69W Length: 0.6 miles	Limits To: Aquero Boulevar ROW: 0.0 ac	Estimated Cost (FY19)
Limits From: IH 69W Length: 0.6 miles Environmental & Planning	Limits To: Aquero Boulevar ROW: 0.0 ac \$	Estimated Cost (FY19) 40,000
Limits From: IH 69W Length: 0.6 miles Environmental & Planning Plans, Specs & Estimate	Limits To: Aquero Boulevar ROW: 0.0 ac \$ \$	Estimated Cost (FY19) 40,000 79,000
Limits From: IH 69W Length: 0.6 miles Environmental & Planning Plans, Specs & Estimate Construction Engineering & Inspection	Limits To: Aquero Boulevar ROW: 0.0 ac \$ \$ \$ \$ \$	Estimated Cost (FY19) 40,000 79,000
Limits From: IH 69W Length: 0.6 miles Environmental & Planning Plans, Specs & Estimate Construction Engineering & Inspection Right-of-Way Construction Cost	Limits To: Aquero Boulevar ROW: 0.0 ac \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Estimated Cost (FY19) 40,000 79,000 63,000
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Limits From: IH 69W Length: 0.6 miles Environmental & Planning Plans, Specs & Estimate Construction Engineering & Inspection Right-of-Way Construction Cost Contingency (20%) Total Project Cost (FY19)	Limits To: Aquero Boulevar	Estimated Cost (FY19) 40,000 79,000 63,000 - 788,000 158,000 1,128,000
Limits From: IH 69W Length: 0.6 miles Environmental & Planning Plans, Specs & Estimate Construction Engineering & Inspection Right-of-Way Construction Cost Contingency (20%) Total Project Cost (FY19) Short-Term Project	Limits To: Aquero Boulevar	Estimated Cost (FY19) 40,000 79,000 63,000 - 788,000 158,000
Limits From: IH 69W Length: 0.6 miles Environmental & Planning Plans, Specs & Estimate Construction Engineering & Inspection Right-of-Way Construction Cost Contingency (20%) Total Project Cost (FY19)	Limits To: Aquero Boulevar	Estimated Cost (FY19) 40,000 79,000 63,000 - 788,000 158,000 1,128,000
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Limits From: IH 69W Length: 0.6 miles Environmental & Planning Plans, Specs & Estimate Construction Engineering & Inspection Right-of-Way Construction Cost Contingency (20%) Total Project Cost (FY19) Short-Term Project D) A.F. Muller Boulevard Shared-Use P	Limits To: Aquero Boulevar ROW: 0.0 ac \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Estimated Cost (FY19) 40,000 79,000 63,000 - 788,000 158,000 1,128,000
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Limits From: IH 69W Length: 0.6 miles Environmental & Planning Plans, Specs & Estimate Construction Engineering & Inspection Right-of-Way Construction Cost Contingency (20%) Total Project Cost (FY19) Short-Term Project D) A.F. Muller Boulevard Shared-Use P Limits From: Gate House Length: 0.35 miles	Limits To: Aquero Boulevar ROW: 0.0 ac \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Estimated Cost (FY19) 40,000 79,000 63,000 - 788,000 158,000 1,128,000 hing Date: 2024 Estimated Cost (FY19)
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Limits From: IH 69W Length: 0.6 miles Environmental & Planning Plans, Specs & Estimate Construction Engineering & Inspection Right-of-Way Construction Cost Contingency (20%) Total Project Cost (FY19) Short-Term Project D) A.F. Muller Boulevard Shared-Use P Limits From: Gate House Length: 0.35 miles Environmental & Planning Plans, Specs & Estimate Construction Engineering & Inspection Right-of-Way Construction Cost Contingency (20%) Total Project Cost (FY19)	Limits To: Aquero Boulevar ROW: 0.0 ac \$ \$ \$ \$ \$ \$ \$ \$ Assumed Oper Ath Limits To: FM 1472 ROW: 0.0 ac \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Estimated Cost (FY19) 40,000 79,000 63,000 79,000 158,000 1,128,000 1,128,000 1,128,000 1,128,000 1,1000 7,000 7,000 15,000 11,000 - 142,000 28,000
Limits Fron: IH 69W Length: 0.6 miles Environmental & Planning Plans, Specs & Estimate Construction Engineering & Inspection Right-of-Way Construction Cost Contingency (20%) Total Project Cost (FY19) Short-Term Project D) A.F. Muller Boulevard Shared-Use P Limits Fron: Gate House Length: 0.35 miles Environmental & Planning Plans, Specs & Estimate Construction Engineering & Inspection Right-of-Way Construction Cost Contingency (20%)	Limits To: Aquero Boulevar ROW: 0.0 ac \$ \$ \$ \$ \$ \$ \$ \$ Assumed Oper Ath Limits To: FM 1472 ROW: 0.0 ac \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Estimated Cost (FY19) 40,000 79,000 63,000 - 788,000 158,000 1,128,000 1,128,000 aning Date: 2024 Estimated Cost (FY19) 7,000 7,000 15,000 11,000 - 142,000 28,000

Pedestrian/Bike Improvement Projects I This project has not been initiated and has no funding. Estimates done by Crane Engineering.

Aquero Boulevard			Page 47
A) Aquero Bike Lanes			
Limits From: River Bank Drive	Limits To: B	ernadette Lan	
			Estimated Cost (FY19
Length: 0.2 miles	ROW: 0.	.0 ac	
Environmental & Planning	\$	·	25,000
Plans, Specs & Estimate	\$	-	50,000
Construction Engineering & Inspection	\$		40,000
Right-of-Way	\$	·	
Construction Cost	\$		530,000
Contingency (20%)	\$	6	101,000
Fotal Project Cost (FY19)	9	3	746,000
Mid-Term Project		Assumed Ope	ning Date: 2026
B) La Bota Extension			
Limits From: Bernadette Lane	Limits To: M	luller Memoria	Boulevard Extension
			Estimated Cost (FY19
Length: 0.85 miles		0.4 acres	
Environmental & Planning	\$	·	250,000
Plans, Specs & Estimate	\$	-	501,000
Construction Engineering & Inspection	\$		401,000
Right-of-Way	\$		2,706,000
Construction Cost	\$	-	5,007,000
Contingency (20%)	\$	5	1,001,000
fotal Project Cost (FY19)	\$	3	9,866,000
Mid-Term Project		Assumed Ope	ning Date: 2026
C) Muller Memorial Boulevard Extension		Assumed Ope	l Boulevard
C) Muller Memorial Boulevard Extension		luller Memoria	l Boulevard
C) Muller Memorial Boulevard Extension Limits From: Aquero Boulevard Extension Length: 0.34 miles	Limits To: M	Iuller Memoria .3 acres	Boulevard Estimated Cost (FY19
C) Muller Memorial Boulevard Extension Limits From: Aquero Boulevard Extension Length: 0.34 miles Environmental & Planning	Limits To: M ROW: 3.	luller Memoria .3 acres	l Boulevard Estimated Cost (FY19 46,000
C) Muller Memorial Boulevard Extension Limits From: Aquero Boulevard Extension Length: 0.34 miles Environmental & Planning Plans, Speos & Estimate	Limits To: M ROW: 3.	luller Memoria .3 acres	Boulevard Estimated Cost (FY19 46,000 93,000
C) Muller Memorial Boulevard Extension Limits From: Aquero Boulevard Extension Length: 0.34 miles Environmental & Planning Plans, Specs & Estimate Construction Engineering & Inspection	Limits To: M ROW: 3.	luller Memoria	Boulevard Estimated Cost (FY19 46,000 93,000 74,000
C) Muller Memorial Boulevard Extension Limits From: Aquero Boulevard Extension Length: 0.34 miles Environmental & Planning Plans, Specs & Estimate Construction Engineering & Inspection Right-of-Way	Limits To: M ROW: 3. \$ \$	luller Memoria	Boulevard Estimated Cost (FY19 46,000 93,000 74,000 850,000
C) Muller Memorial Boulevard Extension Limits From: Aquero Boulevard Extension Length: 0.34 miles Environmental & Planning Plans, Specs & Estimate Construction Engineering & Inspection Right-of-Way Construction Cost	Limits To: M ROW: 3. \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	luller Memoria	Boulevard Estimated Cost (FY19 46,000 93,000 74,000 850,000 930,000
C) Muller Memorial Boulevard Extension Limits From: Aquero Boulevard Extension Length: 0.34 miles Environmental & Planning Plans, Specs & Estimate Construction Engineering & Inspection Right-of-Way Construction Cost Contingency (20%)	Limits To: M ROW: 3. \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	luller Memoria	I Boulevard Estimated Cost (FY19 46,000 93,000 74,000 850,000 930,000 186,000
C) Muller Memorial Boulevard Extension Limits From: Aquero Boulevard Extension Length: 0.34 miles Environmental & Planning Plans, Specs & Estimate Construction Engineering & Inspection Right-of-Way Construction Cost Contingency (20%)	Limits To: M ROW: 3. 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	luller Memoria 3 acres 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	I Boulevard Estimated Cost (FY19 46,000 93,000 74,000 850,000 930,000 186,000
C) Muller Memorial Boulevard Extension Limits From: Aquero Boulevard Extension Length: 0.34 miles Environmental & Planning Plans, Speos & Estimate Construction Engineering & Inspection Right-of-Way Construction Cost Contingency (20%) Fotal Project Cost (FY19) Mid-Term Project	Limits To: M ROW: 3. 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	luller Memoria 3 acres 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Boulevard Estimated Cost (FY19 46,000 93,000 74,000 850,000 930,000 186,000 2,179,000
C) Muller Memorial Boulevard Extension Length: 0.34 miles Environmental & Planning Plans, Specs & Estimate Construction Engineering & Inspection Right-of-Way Construction Cost Contingency (20%) Total Project Cost (FY19) Mid-Term Project D) North Extension	Limits To: M ROW: 3. 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	luller Memoria 3 acres 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Boulevard Estimated Cost (FY19 46,000 93,000 74,000 850,000 930,000 186,000 2,179,000
C) Muller Memorial Boulevard Extension Length: 0.34 miles Environmental & Planning Plans, Specs & Estimate Construction Engineering & Inspection Right-of-Way Construction Cost Contingency (20%) Total Project Cost (FY19) Mid-Term Project D) North Extension	Limits To: M	luller Memoria 3 acres 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Boulevard Estimated Cost (FY19 46,000 93,000 74,000 850,000 930,000 186,000 2,179,000 ning Date: 2026
C) Muller Memorial Boulevard Extension Length: 0.34 miles Environmental & Planning Plans, Specs & Estimate Construction Engineering & Inspection Right-of-Way Construction Cost Contingency (20%) Total Project Cost (FY19) Mid-Term Project D) North Extension	Limits To: M	luller Memoria 3 acres 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Boulevard Estimated Cost (FY19 46,000 93,000 74,000 850,000 930,000 186,000 2,179,000 ning Date: 2026
C) Muller Memorial Boulevard Extension Length: 0.34 miles Environmental & Planning Plans, Specs & Estimate Construction Engineering & Inspection Right-of-Way Construction Cost Contingency (20%) Total Project Cost (FY19) Mid-Term Project D) North Extension Limits From: Muller Memorial Boulevard Extension Length: 3.97 miles	Limits To: M	luller Memoria .3 acres 5 5 5 5 5 5 6 5 5 6 6 7 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8	Boulevard Estimated Cost (FY19 46,000 93,000 74,000 850,000 930,000 186,000 2,179,000 ning Date: 2026
C) Muller Memorial Boulevard Extensio imits From: Aquero Boulevard Extension Length: 0.34 miles Environmental & Planning Plans, Specs & Estimate Construction Engineering & Inspection Right-of-Way Construction Cost Contingency (20%) Total Project Cost (FY19) Mid-Term Project D) North Extension imits From: Muller Memorial Boulevard Extension Length: 3.97 miles Environmental & Planning Plans, Specs & Estimate	Limits To: M ROW: 3. 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	luller Memoria .3 acres 5 5 5 5 5 5 6 5 5 6 6 7 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8	Boulevard Estimated Cost (FY19 46,000 93,000 74,000 850,000 930,000 186,000 2,179,000 ning Date: 2026 Estimated Cost (FY19 1,181,000
C) Muller Memorial Boulevard Extensio imits From: Aquero Boulevard Extension Length: 0.34 miles Environmental & Planning Plans, Specs & Estimate Construction Engineering & Inspection Right-of-Way Construction Cost Contingency (20%) Total Project Cost (FY19) Mid-Term Project D) North Extension imits From: Muller Memorial Boulevard Extension Length: 3.97 miles Environmental & Planning Plans, Specs & Estimate	Limits To: M ROW: 3. 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	luller Memoria .3 acres 5 5 5 5 5 5 6 5 6 5 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8	Boulevard Estimated Cost (FY19 46,000 93,000 74,000 850,000 930,000 186,000 2,179,000 ning Date: 2026 Estimated Cost (FY19 1,181,000 2,362,000
C) Muller Memorial Boulevard Extensio imits From: Aquero Boulevard Extension Length: 0.34 miles Environmental & Planning Plans, Specs & Estimate Construction Engineering & Inspection Right-of-Way Construction Cost Contingency (20%) Total Project Cost (FY19) Mid-Term Project D) North Extension Length: 3.97 miles Environmental & Planning Plans, Specs & Estimate Construction Engineering & Inspection	Limits To: M ROW: 3. 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	luller Memoria .3 acres 5 5 5 5 5 5 5 5 5 5 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8	Boulevard Estimated Cost (FY19 46,000 93,000 74,000 850,000 930,000 186,000 2,179,000 ning Date: 2026 Estimated Cost (FY19 1,181,000 2,362,000 1,890,000
C) Muller Memorial Boulevard Extensio imits From: Aquero Boulevard Extension Length: 0.34 miles Environmental & Planning Plans, Specs & Estimate Construction Engineering & Inspection Right-of-Way Construction Cost Contingency (20%) Total Project Cost (FY19) Mid-Term Project D) North Extension Length: 3.97 miles Environmental & Planning Plans, Specs & Estimate Construction Engineering & Inspection Right-of-Way	Limits To: M ROW: 3. 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	luller Memoria .3 acres 5 5 5 5 5 5 5 5 6 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8	Boulevard Estimated Cost (FY19 46,000 93,000 74,000 850,000 930,000 186,000 2,179,000 ning Date: 2026 Estimated Cost (FY19 1,181,000 2,362,000 1,890,000 12,566,000
C) Muller Memorial Boulevard Extension Length: 0.34 miles Environmental & Planning Plans, Specs & Estimate Construction Engineering & Inspection Right-of-Way Construction Cost Contingency (20%) Total Project Cost (FY19) Mid-Term Project D) North Extension Length: 3.97 miles Environmental & Planning Plans, Specs & Estimate Construction Engineering & Inspection Right-of-Way Construction Engineering & Inspection Right-of-Way Construction Cost	Limits To: M ROW: 3. 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	luller Memoria .3 acres 5 5 5 5 5 5 5 5 6 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8	Boulevard Estimated Cost (FY19 46,000 93,000 74,000 850,000 930,000 186,000 2,179,000 ning Date: 2026 Estimated Cost (FY19 1,181,000 2,362,000 12,566,000 23,620,000
C) Muller Memorial Boulevard Extension Length: 0.34 miles Environmental & Planning Plans, Specs & Estimate Construction Engineering & Inspection Right-of-Way Construction Cost Contingency (20%) Fotal Project Cost (FY19) Mid-Term Project D) North Extension Length: 3.97 miles Environmental & Planning Plans, Specs & Estimate Construction Engineering & Inspection Right-of-Way Construction Cost Construction Cost Construction Cost Contingency (20%)	Limits To: M ROW: 3. 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	luller Memoria .3 acres 5 5 5 5 5 5 5 5 6 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8	Boulevard Estimated Cost (FY19 46,000 93,000 74,000 850,000 930,000 186,000 2,179,000 ning Date: 2026 Estimated Cost (FY19 1,181,000 2,362,000 12,566,000 23,620,000 4,724,000
C) Muller Memorial Boulevard Extension Limits From: Aquero Boulevard Extension Length: 0.34 miles Environmental & Planning Plans, Speos & Estimate Construction Engineering & Inspection Right-of-Way Construction Cost Contingency (20%) Total Project Cost (FY19) Mid-Term Project D) North Extension Limits From: Muller Memorial Boulevard Extension	Limits To: M ROW: 3. 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Auller Memoria	Boulevard Estimated Cost (FY19 46,000 93,000 74,000 850,000 930,000 186,000 2,179,000

#### Aquero Boulevard

This project has not been initiated and has no funding. Estimates done by Crane Engineering. <u>A) Aquero Bike Lanes</u> cost estimate done by HNTB Corporation.

<b>Carrier Drive Extension</b>		Page 48
A) West Extension		
Limits From: IH 35	Limits To: Beltway Parkway	
	Esti	mated Cost (FY19)
Length: 0.66 miles	ROW: 6.4 acres	
Environmental & Planning	\$	154,000
Plans, Specs & Estimate	\$	308,000
Construction Engineering & Inspection	\$	246,000
Right-of-Way	\$	280,000
Construction Cost	\$	3,384,000
Contingency (20%)	\$	615,000
Total Project Cost (FY19)	s	4,987,000
Mid-Term Project	Assumed Opening E	)ate: 2025
B) East Sidewalks		
Limits From: Unitec Drive	Limits To: Port Drive	
	Esti	mated Cost (FY19)
Length: 0.5 miles	ROW: 0.0 acres	
Environmental & Planning	\$	10,000
Plans, Specs & Estimate	\$	19,000
Construction Engineering & Inspection	\$	15,000
Right-of-Way	\$	-
Construction Cost	\$	187,000
Contingency (20%)	\$	37,000
Total Project Cost (FY19)	S	268,000
Mid-Term Project	Assumed Opening D	)ate: 2025
Total Packag	ge Cost (FY19) \$	5,255,000

### Carrier Drive

This project has not been initiated and has no funding. Estimates done by Crane Engineering.

Sara Road & Milo Road Wid	dening	Page 49
B) Milo Road Widening		
Limits From: FM 1472	Limits To: Sara Road	
	E	stimated Cost (FY19
Length: 0.8 miles	ROW: 0.0 acres	
Environmental & Planning	\$	307,000
Plans, Specs & Estimate	\$	614,000
Construction Engineering & Inspection	\$	491,000
Right-of-Way	\$	-
Construction Cost	\$	6,444,000
Contingency (20%)	\$	1,227,000
Total Project Cost (FY19)	\$	9,083,000
Mid-Term Project	Assumed Openin	g Date: 2028
C) Sara Road Widening		
Limits From: IH 69W	Limits To: Vallecillo Road	
	E	stimated Cost (FY19
Length: 1.5 miles	ROW: 7.5 acres	
Environmental & Planning	\$	796,000
Plans, Specs & Estimate	\$	1,593,000
Construction Engineering & Inspection	\$	1,274,000
Right-of-Way	\$	6,505,000
Construction Cost	\$	16,726,000
Contingency (20%)	\$	3,186,000
Total Project Cost (FY19)	\$	30,080,000
Mid-Term Project	Assumed Openin	g Date: 2028
	ge Cost (FY19) \$	39,163,000

### Sara Road & Milo Road Widening

This project has not been initiated and has no funding. Estimates done by HNTB Corporation.

C) Interchange at IH 35		
Limits From: IH 35	Limits To: IH 35	
		Estimated Cost (FY19
Length: 0.3 miles	ROW: 0.0 ac	040.000
Environmental & Planning	\$	818,000
Plans, Specs & Estimate	\$	1,635,000
Construction Engineering & Inspection	\$	1,308,000
Right-of-Way	\$	17 17 000
Construction Cost	\$	17,171,000
Contingency (20%)	\$	3,271,000
Total Project Cost (FY19)	\$	24,203,000
Mid-Term Project	Assumed Oper	ning Date: 2028
D) East Extension		
Limits From: IH 35	Limits To: Uniroyal Drive E	tension
		Estimated Cost (FY19
Length: 3.37 miles	ROW: 61.3 acres	
Environmental & Planning	\$	674,000
Plans, Specs & Estimate	\$	1,347,000
Construction Engineering & Inspection	\$	1,078,000
Right-of-Way	\$	10,672,000
Construction Cost	\$	13,471,000
Contingency (20%)	\$	2,694,000
Total Project Cost (FY19)	\$	29,936,000
Long-Term Project	Assumed Oper	ning Date: 2030
E) South Extension		
Limits From: Uniroyal Drive Extension	Limits To: North-South Bou	levard
		Estimated Cost (FY19
Length: 2.87 miles	ROW: 52.1 acres	
Environmental & Planning	\$	568,000
Plans, Specs & Estimate	\$	1,136,000
Construction Engineering & Inspection	\$	909,000
Right-of-Way	\$	9,078,000
Construction Cost	\$	11,359,000
Contingency (20%)	\$	2,272,000
Total Project Cost (FY19)	s	25,322,000
Long-Term Project	Assumed Oper	ning Date: 2032
	Cost (FY19) \$	79,461,000

Hachar Parkway Extension This project has not been initiated and has no funding. Estimates done by Crane Engineering. <u>C) Interchange at IH 35</u> cost estimate done by HNTB Corporation.

	nt Projects II	Page 51
E) Lamar Drive Extension		
Limits From: Milo Road	Limits To: Vallecillo Road	
		Estimated Cost (FY19
Length: 1.3 miles	ROW: 0.0 ac	
Environmental & Planning	\$	170,000
Plans, Specs & Estimate	\$	340,000
Construction Engineering & Inspection	\$	272,000
Right-of-Way	\$	6,283,000
Construction Cost	\$	3,570,000
Contingency (20%)	\$	680,000
Total Project Cost (FY19)	s	11,315,000
Mid-Term Project	Assumed Open	ing Date: 2026
F) El Gato Road Shared-Use Path		
Limits From: Lamar Drive	Limits To: Cul-de-sac	
		Estimated Cost (FY19
Length: 0.6 miles	ROW: 0.0 acres	
Environmental & Planning	\$	11,000
Plans, Specs & Estimate	\$	22,000
Construction Engineering & Inspection	\$	17,000
Right-of-Way	\$	
Construction Cost	\$	218,000
Contingency (20%)	\$	44,000
Fotal Project Cost (FY19)	Ś	312.000
Mid-Term Project	Assumed Open	ing Date: 2026
G) Archer Drive Sidewalks		
Limits From: Killam Industrial Boulevard	Limits To: Vallecillo Road	
		Estimated Cost (FY19
Length: 0.46 miles	ROW: 0.0 acres	
Environmental & Planning	\$	11,000
Plans, Specs & Estimate	\$	21,000
Construction Engineering & Inspection	\$	17,000
Right-of-Way	\$	
Construction Cost	\$	212,000
Contingency (20%)	\$	42,000
	\$	
	S	
Total Project Cost (FY19) Mid-Term Project	S	303,000
Total Project Cost (FY19) Mid-Term Project H) Spivey Drive Sidewalks	S	303,000
Total Project Cost (FY19) Mid-Term Project H) Spivey Drive Sidewalks	\$ Assumed Open	303,000 ing Date: 2026
Total Project Cost (FY19) Mid-Term Project H) Spivey Drive Sidewalks Limits From: Killam Industrial Boulevard	\$ Assumed Open Limits To: Vallecillo Road	303,000 ing Date: 2026
Total Project Cost (FY19) Mid-Term Project H) Spivey Drive Sidewalks Limits From: Killam Industrial Boulevard Length: 0.48 miles	\$ Assumed Open Limits To: Vallecillo Road ROW: 0.0 acres	303,000 ing Date: 2026 Estimated Cost (FY19
Total Project Cost (FY19) Mid-Term Project H) Spivey Drive Sidewalks Limits From: Killam Industrial Boulevard Length: 0.48 miles Environmental & Planning	\$ Assumed Open Limits To: Vallecillo Road ROW: 0.0 acres \$	303,000 ing Date: 2026 Estimated Cost (FY19 11,000
Total Project Cost (FY19) Mid-Term Project H) Spivey Drive Sidewalks Limits From: Killam Industrial Boulevard Length: 0.48 miles Environmental & Planning Plans, Specs & Estimate	\$ Assumed Open Limits To: Vallecillo Road ROW: 0.0 acres \$ \$ \$	303,000 ing Date: 2026 Estimated Cost (FY19 11,000 22,000
Total Project Cost (FY19) Mid-Term Project H) Spivey Drive Sidewalks Limits From: Killam Industrial Boulevard Length: 0.48 miles Environmental & Planning Plans, Specs & Estimate Construction Engineering & Inspection	\$ Assumed Open Limits To: Vallecillo Road ROW: 0.0 acres \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	303,000 ing Date: 2026 Estimated Cost (FY19 11,000 22,000
Total Project Cost (FY19) Mid-Term Project H) Spivey Drive Sidewalks Limits From: Killam Industrial Boulevard Length: 0.48 miles Environmental & Planning Plans, Specs & Estimate Construction Engineering & Inspection Right-of-Way	\$ Assumed Open Limits To: Vallecillo Road ROW: 0.0 acres \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	303,000 ing Date: 2026 Estimated Cost (FY19 11,000 22,000 17,000
Total Project Cost (FY19) Mid-Term Project H) Spivey Drive Sidewalks Limits From: Killam Industrial Boulevard Length: 0.48 miles Environmental & Planning Plans, Specs & Estimate Construction Engineering & Inspection Right-of-Way Construction Cost	\$ Assumed Open Limits To: Vallecillo Road ROW: 0.0 acres \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	303,000 ing Date: 2026 Estimated Cost (FY19 11,000 22,000 17,000 216,000
Total Project Cost (FY19) Mid-Term Project H) Spivey Drive Sidewalks Limits From: Killam Industrial Boulevard Length: 0.48 miles Environmental & Planning Plans, Specs & Estimate Construction Engineering & Inspection Right-of-Way Construction Cost Contingency (20%)	Kow: 0.0 acres Kow: 0.0 acres S S S S S S S S S S S S S S S S S S S	303,000 ing Date: 2026 Estimated Cost (FY19 11,000 22,000 17,000 216,000 43,000
H) Spivey Drive Sidewalks Limits From: Killam Industrial Boulevard	\$ Assumed Open Limits To: Vallecillo Road ROW: 0.0 acres \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	42,000 303,000 ing Date: 2026 Estimated Cost (FY19 11,000 22,000 17,000 216,000 43,000 309,000
Total Project Cost (FY19) Mid-Term Project H) Spivey Drive Sidewalks Limits From: Killam Industrial Boulevard Length: 0.48 miles Environmental & Planning Plans, Specs & Estimate Construction Engineering & Inspection Right-of-Way Construction Cost Contingency (20%)	S Assumed Open Limits To: Vallecillo Road ROW: 0.0 acres S S S S S S S S S S S S S S S S S S S	303,000 ing Date: 2026 Estimated Cost (FY19 11,000 22,000 17,000 216,000 43,000

Pedestrian/Bike Improvement Projects II

This project has not been initiated and has no funding. Estimates done by Crane Engineering. <u>E) Lamar Drive Extension</u> and <u>F) El Gato Road Shared-Use Path</u> estimates done by HNTB Corporation.

Port Drive Widening & Extension		Page 52	
A) Port Drive Widening			
Limits From: Uniroyal Drive	Limits To: Verde Boulevard	Extension	
		Estimated Cost (FY19)	
Length: 0.62 miles	ROW: 0.0 acres		
Environmental & Planning	\$	122,000	
Plans, Specs & Estimate	\$	244,000	
Construction Engineering & Inspection	\$	195,000	
Right-of-Way	\$	-	
Construction Cost	\$	2,435,000	
Contingency (20%)	\$	487,000	
Total Project Cost (FY19)	s	3,483,000	
Mid-Term Project	Assumed Oper	Assumed Opening Date: 2028	
B) Port Drive Extension			
Limits From: Cul-de-sac	Limits To: Hachar Parkway	Extension	
		Estimated Cost (FY19)	
Length: 3.07 miles	ROW: 26.1 acres		
Environmental & Planning	\$	585,000	
Plans, Specs & Estimate	\$	1,169,000	
Construction Engineering & Inspection	\$	935,000	
Right-of-Way	\$	4,543,000	
Construction Cost	\$	11,689,000	
Contingency (20%)	\$	2,338,000	
Total Project Cost (FY19)	s	21,259,000	
Long-Term Project	Assumed Oper	ning Date: 2030	
	ge Cost (FY19) \$	24,742,000	

Port Drive Widening & Extension This project has not been initiated and has no funding. Estimates done by Crane Engineering.

Uniroyal Drive Widening 8		Page 53
A) Uniroyal Drive Widening		
Limits From: IH 35	Limits To: Cul-de-sac	
	E	stimated Cost (FY19
Length: 0.98 miles	ROW: 0.0 acres	
Environmental & Planning	\$	240,000
Plans, Specs & Estimate	\$	480,000
Construction Engineering & Inspection	\$	383,000
Right-of-Way	\$	-
Construction Cost	\$	4,791,000
Contingency (20%)	\$	958,000
Total Project Cost (FY19)	s	6,852,000
Mid-Term Project	Assumed Openir	ng Date: 2028
	Assumed Openir	ng Date: 2028
Mid-Term Project B) Uniroyal Drive Extension Limits From: Cul-de-sac	Assumed Openir Limits To: Hachar Parkway E	
B) Uniroyal Drive Extension	Limits To: Hachar Parkway E	
B) Uniroyal Drive Extension	Limits To: Hachar Parkway E	xténsion
B) Uniroyal Drive Extension Limits From: Cul-de-sac	Limits To: Hachar Parkway E E	xténsion
B) Uniroyal Drive Extension Limits From: Cul-de-sac Length: 2.56 miles	Limits To: Hachar Parkway E E ROW: 31 acres	xtension Estimated Cost (FY19 623,000
B) Uniroyal Drive Extension Limits From: Cul-de-sac Length: 2.56 miles Environmental & Planning	Limits To: Hachar Parkway E E ROW: 31 acres \$	xtension Estimated Cost (FY19
B) Uniroyal Drive Extension Limits From: Cul-de-sac Length: 2.56 miles Environmental & Planning Plans, Specs & Estimate	Limits To: Hachar Parkway E E ROW: 31 acres \$ \$	xtension Estimated Cost (FY19 623,000 1,245,000 997,000
B) Uniroyal Drive Extension Limits From: Cul-de-sac Length: 2.56 miles Environmental & Planning Plans, Specs & Estimate Construction Engineering & Inspection	Limits To: Hachar Parkway E E ROW: 31 acres \$ \$ \$ \$	xtension Estimated Cost (FY19 623,000 1,245,000
B) Uniroyal Drive Extension Limits From: Cul-de-sac Length: 2.56 miles Environmental & Planning Plans, Specs & Estimate Construction Engineering & Inspection Right-of-Way	Limits To: Hachar Parkway E E ROW: 31 acres \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	xtension <b>Estimated Cost (FY19</b> 623,000 1,245,000 997,000 5,409,000
B) Uniroyal Drive Extension Limits From: Cul-de-sac Length: 2.56 miles Environmental & Planning Plans, Specs & Estimate Construction Engineering & Inspection Right-of-Way Construction Cost	Limits To: Hachar Parkway E E ROW: 31 acres \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	xtension stimated Cost (FY19) 623,000 1,245,000 997,000 5,409,000 13,698,000
B) Uniroyal Drive Extension Limits From: Cul-de-sac Length: 2.56 miles Environmental & Planning Plans, Specs & Estimate Construction Engineering & Inspection Right-of-Way Construction Cost Contingency (20%)	Limits To: Hachar Parkway E ROW: 31 acres \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	xtension Estimated Cost (FY19) 623,000 1,245,000 997,000 5,409,000 13,698,000 2,491,000 24,463,000

Uniroyal Drive Widening & Extension This project has not been initiated and has no funding. Estimates done by Crane Engineering.

Vallecillo Road Extension		Page 54
B) Interchange at IH 35		
Limits From: IH 35	Limits To: IH 35	
		Estimated Cost (FY19)
Length: 0.5 miles	ROW: 0.0 acres	
Environmental & Planning	\$	948,000
Plans, Specs & Estimate	\$	1,896,000
Construction Engineering & Inspection	\$	1,517,000
Right-of-Way	\$	-
Construction Cost	\$	19,906,000
Contingency (20%)	\$	3,792,000
Total Project Cost (FY19)	ŝ	28,059,000
Mid-Term Project	Assumed Ope	ning Date: 2026
Mid-Term Project	Assumed Ope	ning Date: 2026
Mid-Term Project C) East Extension		
Mid-Term Project	Assumed Ope	ulevard Extension
Mid-Term Project C) East Extension Limits From: IH 35		ulevard Extension
Mid-Term Project C) East Extension	Limits To: International Bo	ulevard Extension
Mid-Term Project C) East Extension Limits From: IH 35 Length: 1.63 miles	Limits To: International Bo ROW: 19.8 acres	ulevard Extension Estimated Cost (FY19)
Mid-Term Project C) East Extension Limits From: IH 35 Length: 1.63 miles Environmental & Planning	Limits To: International Bo ROW: 19.8 acres \$	ulevard Extension Estimated Cost (FY19) 388,000
Mid-Term Project C) East Extension Limits From: IH 35 Length: 1.63 miles Environmental & Planning Plans, Specs & Estimate	Limits To: International Bo ROW: 19.8 acres \$ \$	ulevard Extension Estimated Cost (FY19) 388,000 777,000
Mid-Term Project C) East Extension Limits From: IH 35 Length: 1.63 miles Environmental & Planning Plans, Specs & Estimate Construction Engineering & Inspection	Limits To: International Bo ROW: 19.8 acres \$ \$ \$ \$	ulevard Extension Estimated Cost (FY19) 388,000 777,000 621,000
Mid-Term Project C) East Extension Limits From: IH 35 Length: 1.63 miles Environmental & Planning Plans, Specs & Estimate Construction Engineering & Inspection Right-of-Way	Limits To: International Bo ROW: 19.8 acres \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	ulevard Extension Estimated Cost (FY19) 388,000 7777,000 621,000 1,724,000
Mid-Term Project C) East Extension Limits From: IH 35 Length: 1.63 miles Environmental & Planning Plans, Specs & Estimate Construction Engineering & Inspection Right-of-Way Construction Cost	Limits To: International Bo ROW: 19.8 acres \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	ulevard Extension Estimated Cost (FY19) 388,000 7777,000 621,000 1,724,000 7,765,000
Mid-Term Project C) East Extension Limits From: IH 35 Length: 1.63 miles Environmental & Planning Plans, Specs & Estimate Construction Engineering & Inspection Right-of-Way Construction Cost Contingency (20%)	Limits To: International Bo ROW: 19.8 acres \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	ulevard Extension Estimated Cost (FY19) 388,000 7777,000 621,000 1,724,000 7,765,000 1,553,000

#### Vallecillo Road Extension

This project has not been initiated and has no funding. <u>B) Interchange at IH 35</u> estimate was done by HNTB Corporation. <u>C) East Extension</u> estimate was done by Crane Engineering.

FM 3338 - Las Tiendas Road Widening		Page 55
FM 3338 - Las Tiendas Road Widening		
Limits From: FM 1472	Limits To: TX 255	
		Estimated Cost
Length: 8.2 miles	ROW: 0.0 acres	
Estimated Construction Cost	\$	45,000,000
Total Project Cost	\$	45,000,000
Mid-Term Project	Assumed O	pening Date: 2029
Total Pack	age Cost \$	45,000,000

#### FM 3338 - Las Tiendas Road Widening

Funding has not been identified for this project, and it is ready to go into the Project Development phase. Estimate is found on the TxDOT Project Tracker website.

International Boulevard Extension		Page 56
A) North Extension		
Limits From: United Avenue	Limits To: North-South B	oulévard (unnaméd)
		Estimated Cost
Length: 2 miles	ROW: 28.9 acres	
Environmental & Planning	\$	468,000
Plans, Specs & Estimate	\$	935,000
Construction Engineering & Inspection	\$	748,000
Right-of-Way	\$	2,520,000
Construction Cost	\$	9,348,000
Contingency (20%)	\$	1,870,000
Total Project Cost	\$	15,889,000
Mid-Term Project Assumed Opening Date: 2027		
Total Pac	kage Cost \$	15,889,000

#### International Boulevard Extension

This project has not been initiated and has no funding. Estimates done by Crane Engineering.

McPherson Roa	d Extension		Page 57
A) North Extension			
Limits From: Union Pacific I	Boulevard	Limits To: North-South B	oulevard (unnamed)
			Estimated Cost
Length: 2.65 miles		ROW: 38.5 acres	
Environmental & Planning	ş	\$	620,000
Plans, Specs & Estimate		\$	1,241,000
<b>Construction Engineering</b>	& Inspection	\$	993,000
Right-of-Way		\$	3,352,000
Construction Cost		\$	12,408,000
Contingency (20%)		\$	2,482,000
Total Project Cost		s	21,096,000
Mid-Term Project		Assumed Op	pening Date: 2027
	Total Pac	kage Cost \$	21,096,000

#### McPherson Road Extension

This project has not been initiated and has no funding. Estimates done by Crane Engineering.

United Avenue Extension		Page 58
A) West Extension		
Limits From: Cul-de-sac	Limits To: IH 35	
		Estimated Cost
Length: 1.69 miles	ROW: 18.5 acres	
Environmental & Planning	\$	427,000
Plans, Specs & Estimate	\$	853,000
Construction Engineering & Inspection	\$	683,000
Right-of-Way	\$	1,608,000
Construction Cost	\$	11,521,000
Contingency (20%)	\$	1,707,000
Total Project Cost	\$	16,799,000
Mid-Term Project	Assumed Op	pening Date: 2027
Total Pack	age Cost \$	16,799,000

#### United Avenue Extension

This project has not been initiated and has no funding. Estimates done by Crane Engineering.

FM 1472 - Mines Road Wide	ening to Freeway	Page 59
A) Direct Connectors (2) at IH 69W		
Limits From: IH 69W	Limits To: IH 69W	
		Estimated Cost (FY19)
Length: 2.2 miles	ROW: 10.2 acres	
Environmental & Planning	\$	2,212,000
Plans, Specs & Estimate	\$	4,423,000
Construction Engineering & Inspection	\$	3,539,000
Right-of-Way	\$	8,927,000
Construction Cost	\$	46,444,000
Contingency (20%)	\$	8,846,000
Total Project Cost (FY19)	s	74,391,000
Long-Term Project	Assumed Op	ening Date: 2033
B) Central Segment		
Limits From: IH 69W	Limits To: Hachar Parkwa	ay
		Estimated Cost (FY19)
Length: 5.1 miles	ROW: 27.7 acres	
Environmental & Planning	\$	8,541,000
Plans, Specs & Estimate	\$	17,083,000
Construction Engineering & Inspection	\$	13,666,000
Right-of-Way	\$	24,090,000
Construction Cost	\$	179,371,000
Contingency (20%)	\$	34,166,000
Total Project Cost (FY19)	s	276,917,000
Long-Term Project	Assumed Op	ening Date: 2033
C) North Segment		
Limits From: Hachar Parkway	Limits To: TX 255	
		Estimated Cost (FY19)
Length: 11.8 miles	ROW: 30.2 acres	
Environmental & Planning	\$	13,348,000
Plans, Specs & Estimate	\$	26,696,000
Construction Engineering & Inspection	\$	21,357,000
Right-of-Way	\$	26,267,000
Construction Cost	\$	280,306,000
Contingency (20%)	\$	53,392,000
Total Project Cost (FY19)	s	421,366,000
Long-Term Project	Assumed Op	ening Date: 2033
Total Package	e Cost (FY19) \$	772,674,000

FM 1472 – Mines Road Widening to Freeway

This project has not been initiated and has no funding. Estimates done by HNTB Corporation.

North-South Boulevard (unr		
A) North Segment		
Limits From: TX 255	Limits To: IH 35	Estimated Oast (EV40
Length: 9.67 miles	ROW: 140.6 acres	Estimated Cost (FY19
Environmental & Planning	\$	2,396,000
Plans, Specs & Estimate	\$	4,793,000
Construction Engineering & Inspection	\$	3,834,000
Right-of-Way	\$	6,125,000
Construction Cost	\$	47,924,000
Contingency (20%)	\$	9,585,000
Total Project Cost (FY19)	s	74,657,000
Long-Term Project	Assumed Op	ening Date: 2032
B) Interchange at IH 35		
Limits From: IH 35	Limits To: IH 35	
		Estimated Cost (FY19
Length: 1.4 miles	ROW: 0.0 acres	
Environmental & Planning	\$	850,000
Plans, Specs & Estimate	\$	1,700,000
Construction Engineering & Inspection	\$	1,360,000
Right-of-Way	\$	
Construction Cost	\$	17,855,000
Contingency (20%)	\$	3,401,000
Total Project Cost (FY19)	s	25,166,000
Long-Term Project	Assumed Op	ening Date: 2030
C) East Segment		
Limits From: IH 35	Limits To: Hachar Parkwa	ay Extension
		Estimated Cost (FY19
Length: 4.52 miles	ROW: 65.8 acres	
Environmental & Planning	\$	1,128,000
Plans, Specs & Estimate	\$	2,255,000
Construction Engineering & Inspection	\$	1,804,000
Right-of-Way	\$	5,733,000
Construction Cost	\$	22,553,000
Contingency (20%)	\$	4,511,000
Total Project Cost (FY19)	S	37,984,000
Long-Term Project	Assuméd Op	ening Date: 2030
Total Packag	ge Cost (FY19) \$	137,807,000

North-South Boulevard (unnamed) This project has not been initiated and has no funding. Estimates done by Crane Engineering. <u>B) Interchange at IH 35</u> estimate was done by HNTB Corporation.

Trade Center Boulevard Ext	ension	Page 61
A) West Extension		
Limits From: Cul-de-sac	Limits To: Aquero Boulevard	
	E	stimated Cost (FY19
Length: 0.81 miles	ROW: 7.9 acres	
Environmental & Planning	\$	147,000
Plans, Specs & Estimate	\$	293,000
Construction Engineering & Inspection	\$	234,000
Right-of-Way	\$	2,057,000
Construction Cost	\$	2,930,000
Contingency (20%)	\$	586,000
Total Project Cost (FY19)	s	6,247,000
Long-Term Project	Assumed Openin	g Daté: 2032
B) East Extension		
Limits From: FM 1472	Limits To: 1H 35	
		stimated Cost (FY19
Length: 3.02 miles	ROW: 29.3 acres	
Environmental & Planning	\$	680,000
Plans, Specs & Estimate	\$	1,359,000
Construction Engineering & Inspection	\$	1,088,000
Right-of-Way	\$	2,554,000
Construction Cost	\$	13,594,000
Contingency (20%)	\$	2,719,000
	s	21,994,000
Total Project Cost (FY19)		
Total Project Cost (FY19) Long-Term Project	Assumed Openin	g Date: 2034

Trade Center Boulevard Extension

This project has not been initiated and has no funding. Estimates done by Crane Engineering.

Verde Boulevard Extension		Page 62
A) Central Segment		
Limits From: FM 1472	Limits To: IH 35	
		Estimated Cost (FY19
Length: 5.6 miles	ROW: 67.9 acres	
Environmental & Planning	\$	1,297,000
Plans, Specs & Estimate	\$	2,594,000
Construction Engineering & Inspection	\$	2,075,000
Right-of-Way	\$	2,959,000
Construction Cost	\$	25,939,000
Contingency (20%)	\$	5,188,000
Total Project Cost (FY19)	s	40,052,000
Long-Term Project	Assumed O	pening Date: 2036
B) Interchange at IH 35		
Limits From: IH 35	Limits To: IH 35	
		Estimated Cost (FY19
Length: 0.7 miles	ROW: 0.0 acres	
Environmental & Planning	\$	704,000
Plans, Specs & Estimate	\$	1,409,000
Construction Engineering & Inspection	\$	1,127,000
Right-of-Way	\$	
Construction Cost	\$	14,793,000
Contingency (20%)	\$	2.818,000
Total Project Cost (FY19)	ş	20,851,000
Long-Term Project	Assumed Opening Date: 2036	
C) East Segment		
Limits From: IH 35	Limits To: Port Drive	
		Estimated Cost (FY19
Length: 1.05 miles	ROW: 12.7 acres	
Environmental & Planning	\$	245,000
Plans, Specs & Estimate	\$	490,000
Construction Engineering & Inspection	\$	391,000
Right-of-Way	\$	2,214,000
Construction Cost	\$	4,891,000
Contingency (20%)	\$	978,000
Total Project Cost (FY19)	s	9,209,000
Long-Term Project	Assumed O	pening Date: 2036
Total Package (	Cost (FY19) \$	70,112,000

#### Verde Boulevard

This project has not been initiated and has no funding. Estimates done by Crane Engineering. <u>B) Interchange at IH 35</u> estimate was done by HNTB Corporation.

East-West Boulevard	Page 63	
A) East-West Boulevard		
Limits From: TX 255	Limits To: IH 35	
		Estimated Cost
Length: 19.25 miles	ROW: 326.7 ac	res
Environmental & Planning	\$	5,615,000
Plans, Specs & Estimate	\$	11,230,000
Construction Engineering & Inspec	tion \$	8,985,000
Right-of-Way	\$	14,232,000
Construction Cost	\$	112,304,000
Contingency (20%)	\$	22,461,000
Total Project Cost	\$	174,827,000
Long-Term Project Assumed Opening Date: 2040		
	Total Package Cost \$	174,827,000

East-West Boulevard (unnamed)

This project has not been initiated and has no funding. Estimates done by Crane Engineering.

Sara Road Extension		Page 64	
A) North Extension			
Limits From: TX 255	Limits To: Vallecillo Road		
		Estimated Cost	
Length: 11.31 miles	ROW: 191.9 acres		
Environmental & Planning	\$	3,312,000	
Plans, Specs & Estimate	\$	6,623,000	
Construction Engineering & Inspection	\$	5,298,000	
Right-of-Way	\$	8,360,000	
Construction Cost	\$	66,229,000	
Contingency (20%)	\$	13,246,000	
Total Project Cost	S	103,068,000	
Long-Term Project	m Project Assumed Opening Date: 2038		
Tot	tal Package Cost \$	103,068,000	

#### Sara Road Extension

This project has not been initiated and has no funding. Estimates done by Crane Engineering.

TX 255 Widening		Page 65
A) TX 255 Widening		
Limits From: FM 1472	Limits To: IH 35	
		Estimated Cost
Length: 17.8 miles	ROW: 0.0 acres	
Environmental & Planning	\$	4,371,000
Plans, Specs & Estimate	\$	8,742,000
Construction Engineering & Inspection	\$	6,994,000
Right-of-Way	\$	-
Construction Cost	\$	91,796,000
Contingency (20%)	\$	17,485,000
Total Project Cost	\$	129,388,000
Long-Term Project	Assumed Opening Date: 2040	
Total Pack	age Cost \$	129,388,000

#### TX 255 Widening

This project has not been initiated and has no funding. Estimates done by HNTB Corporation.

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