

APPENDIX K: COST ESTIMATES



CIVIL PROJECT BUDGET ESTIMATE

PROJECT CHARTER ATTACHMENT A

NOTE: Refer to the Project Charter or Construction Cost Estimate for goals and initial scope of work

Project Name	Walnut Creek Trail Connector - La Loma - ALTERNATIVE 1a		
Department	Public Works	CIP ID	10796.017
Category	Mobility Infrastructure	Index ²¹	104.7
Class ²⁰	Class 4 Cost Estimate - Preliminary Engineering Report (PER) (-20% to 30%)		

2800 - ARCHITECTURE/ ENGINEERING (A/E)		28%	\$1,067,784.48
CONSULTANTS			\$741,517.00
5520	A/E Basic Services ²	\$741,517.00	
INTERDEPARTMENTAL CHARGES			\$326,267.48
6237	PWD Project Management Services (PMD) ³	\$163,133.74	
6238	PWD Construction Services (CSD) ³	\$163,133.74	
6203	Sponsor Department Charges ⁴		
2801 - SURVEYING⁵		2%	\$68,855.15
2802 - TESTING		2%	\$82,626.18
5730	Construction Material Testing ⁶	\$45,550.33	
5730	Geotechnical Report ⁷	\$37,075.85	
5588	Hazardous Material Testing ⁸		
5588	Environmental Assessment ⁹		
2803 - INSPECTIONS		0%	
2804 - CONSTRUCTION (see detailed cost estimate)		55%	\$2,118,620.00
5560	New Construction ¹	\$2,072,000.00	
5600	Hazardous Material Abatement ¹⁸		
6324	ROCIP ¹⁹	\$46,620.00	
2805 - LAND & RIGHT-OF-WAY¹¹		1%	\$50,000.00
2806 - MISCELLANEOUS		1%	\$42,215.23
5580	Debt Issuance ¹³	\$21,029.03	
6843	Permits/ Fees ¹⁴	\$21,186.20	
7157	GAATN Connection ¹⁵	\$0.00	
2807 - EQUIPMENT/FURNISHINGS¹⁶		0%	
2808 - MATERIALS		0%	
2809 - ART IN PUBLIC PLACES (Rounded to nearest \$100)¹²		2%	\$66,800.00
PROJECT SUB-TOTAL			\$3,475,872.01
COST CONTINGENCY (Based on project risk analysis)		Risk Probability % ¹⁰	
		10.00%	9%
			\$347,587.20
TOTAL PROJECT BUDGET ESTIMATE (Rounded to nearest \$1,000)		100%	\$3,844,000.00

CLASS 4 COST ESTIMATE ACCURACY RANGE LOW (-20%) to HIGH (30%)
 \$3,075,200.00 to \$4,997,200.00



CIVIL PROJECT BUDGET ESTIMATE

PROJECT CHARTER ATTACHMENT A

NOTE: Refer to the Project Charter or Construction Cost Estimate for goals and initial scope of work

Project Name	Walnut Creek Trail Connector - La Loma - ALTERNATIVE 1b-Option 1 (BRIDGE)		
Department	Public Works	CIP ID	10796.017
Category	Mobility Infrastructure	Index ²¹	104.7
Class ²⁰	Class 4 Cost Estimate - Preliminary Engineering Report (PER) (-20% to 30%)		

2800 - ARCHITECTURE/ ENGINEERING (A/E)		28%	\$1,360,497.60
CONSULTANTS		\$944,790.00	
5520	A/E Basic Services ²	\$944,790.00	
INTERDEPARTMENTAL CHARGES		\$415,707.60	
6237	PWD Project Management Services (PMD) ³	\$207,853.80	
6238	PWD Construction Services (CSD) ³	\$207,853.80	
6203	Sponsor Department Charges ⁴		
2801 - SURVEYING⁵		2%	\$87,730.50
2802 - TESTING		2%	\$105,276.60
5730	Construction Material Testing ⁶	\$58,037.10	
5730	Geotechnical Report ⁷	\$47,239.50	
5588	Hazardous Material Testing ⁸		
5588	Environmental Assessment ⁹		
2803 - INSPECTIONS		0%	
2804 - CONSTRUCTION (see detailed cost estimate)		55%	\$2,699,400.00
5560	New Construction ¹	\$2,640,000.00	
5600	Hazardous Material Abatement ¹⁸		
6324	ROCIP ¹⁹	\$59,400.00	
2805 - LAND & RIGHT-OF-WAY¹¹		2%	\$100,000.00
2806 - MISCELLANEOUS		1%	\$54,007.24
5580	Debt Issuance ¹³	\$27,013.24	
6843	Permits/ Fees ¹⁴	\$26,994.00	
7157	GAATN Connection ¹⁵	\$0.00	
2807 - EQUIPMENT/FURNISHINGS¹⁶		0%	
2808 - MATERIALS		0%	
2809 - ART IN PUBLIC PLACES (Rounded to nearest \$100)¹²		2%	\$85,100.00
PROJECT SUB-TOTAL			\$4,464,998.70
COST CONTINGENCY (Based on project risk analysis)		Risk Probability % ¹⁰	
		10.00%	9%
			\$446,499.87
TOTAL PROJECT BUDGET ESTIMATE (Rounded to nearest \$1,000)		100%	\$4,939,000.00

CLASS 4 COST ESTIMATE ACCURACY RANGE

LOW (-20%)	\$3,951,200.00	to	HIGH (30%)	\$6,420,700.00
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CIVIL PROJECT BUDGET ESTIMATE

PROJECT CHARTER ATTACHMENT A

NOTE: Refer to the Project Charter or Construction Cost Estimate for goals and initial scope of work

Project Name	Walnut Creek Trail Connector - La Loma - ALTERNATIVE 1b-OPT 2 (UNDERPASS)		
Department	Public Works	CIP ID	10796.017
Category	Mobility Infrastructure	Index ²¹	104.7
Class ²⁰	Class 4 Cost Estimate - Preliminary Engineering Report (PER) (-20% to 30%)		

2800 - ARCHITECTURE/ ENGINEERING (A/E)		28%	\$1,508,915.52
CONSULTANTS		\$1,047,858.00	
5520	A/E Basic Services ²	\$1,047,858.00	
INTERDEPARTMENTAL CHARGES		\$461,057.52	
6237	PWD Project Management Services (PMD) ³	\$230,528.76	
6238	PWD Construction Services (CSD) ³	\$230,528.76	
6203	Sponsor Department Charges ⁴		
2801 - SURVEYING⁵		2%	\$97,301.10
2802 - TESTING		2%	\$116,761.32
5730	Construction Material Testing ⁶	\$64,368.42	
5730	Geotechnical Report ⁷	\$52,392.90	
5588	Hazardous Material Testing ⁸		
5588	Environmental Assessment ⁹		
2803 - INSPECTIONS		0%	
2804 - CONSTRUCTION (see detailed cost estimate)		55%	\$2,993,880.00
5560	New Construction ¹	\$2,928,000.00	
5600	Hazardous Material Abatement ¹⁸		
6324	ROCIP ¹⁹	\$65,880.00	
2805 - LAND & RIGHT-OF-WAY¹¹		1%	\$50,000.00
2806 - MISCELLANEOUS		1%	\$59,529.94
5580	Debt Issuance ¹³	\$29,591.14	
6843	Permits/ Fees ¹⁴	\$29,938.80	
7157	GAATN Connection ¹⁵	\$0.00	
2807 - EQUIPMENT/FURNISHINGS¹⁶		0%	
2808 - MATERIALS		0%	
2809 - ART IN PUBLIC PLACES (Rounded to nearest \$100)¹²		2%	\$94,300.00
PROJECT SUB-TOTAL			\$4,891,096.74
COST CONTINGENCY (Based on project risk analysis)		Risk Probability % ¹⁰	
		10.00%	9%
			\$489,109.67
TOTAL PROJECT BUDGET ESTIMATE (Rounded to nearest \$1,000)		100%	\$5,410,000.00

CLASS 4 COST ESTIMATE ACCURACY RANGE LOW (-20%) to HIGH (30%)
 \$4,328,000.00 to \$7,033,000.00



CIVIL PROJECT BUDGET ESTIMATE

PROJECT CHARTER ATTACHMENT A

NOTE: Refer to the Project Charter or Construction Cost Estimate for goals and initial scope of work

Project Name	Walnut Creek Trail Connector - La Loma - ALTERNATIVE 1b-OPT3 (AT-GRADE)		
Department	Public Works	CIP ID	10796.017
Category	Mobility Infrastructure	Index ²¹	104.7
Class ²⁰	Class 4 Cost Estimate - Preliminary Engineering Report (PER) (-20% to 30%)		

2800 - ARCHITECTURE/ ENGINEERING (A/E)		28%	\$899,136.00
CONSULTANTS		\$624,400.00	
5520	A/E Basic Services ²	\$624,400.00	
INTERDEPARTMENTAL CHARGES		\$274,736.00	
6237	PWD Project Management Services (PMD) ³	\$137,368.00	
6238	PWD Construction Services (CSD) ³	\$137,368.00	
6203	Sponsor Department Charges ⁴		
2801 - SURVEYING⁵		2%	\$57,980.00
2802 - TESTING		2%	\$69,576.00
5730	Construction Material Testing ⁶	\$38,356.00	
5730	Geotechnical Report ⁷	\$31,220.00	
5588	Hazardous Material Testing ⁸		
5588	Environmental Assessment ⁹		
2803 - INSPECTIONS		0%	
2804 - CONSTRUCTION (see detailed cost estimate)		55%	\$1,784,000.00
5560	New Construction ¹	\$1,784,000.00	
5600	Hazardous Material Abatement ¹⁸		
6324	ROCIP ¹⁹	\$0.00	
2805 - LAND & RIGHT-OF-WAY¹¹		2%	\$50,000.00
2806 - MISCELLANEOUS		1%	\$35,595.13
5580	Debt Issuance ¹³	\$17,755.13	
6843	Permits/ Fees ¹⁴	\$17,840.00	
7157	GAATN Connection ¹⁵	\$0.00	
2807 - EQUIPMENT/FURNISHINGS¹⁶		0%	
2808 - MATERIALS		0%	
2809 - ART IN PUBLIC PLACES (Rounded to nearest \$100)¹²		2%	\$56,200.00
PROJECT SUB-TOTAL			\$2,934,732.00
COST CONTINGENCY (Based on project risk analysis)		Risk Probability % ¹⁰	
		10.00%	9%
			\$293,473.20
TOTAL PROJECT BUDGET ESTIMATE (Rounded to nearest \$1,000)		100%	\$3,246,000.00

CLASS 4 COST ESTIMATE ACCURACY RANGE LOW (-20%) to HIGH (30%)
 \$2,596,800.00 to \$4,219,800.00



CIVIL PROJECT BUDGET ESTIMATE

PROJECT CHARTER ATTACHMENT A

NOTE: Refer to the Project Charter or Construction Cost Estimate for goals and initial scope of work

Project Name	Walnut Creek Trail Connector - La Loma - ALTERNATIVE 2		
Department	Public Works	CIP ID	10796.017
Category	Mobility Infrastructure	Index ²¹	104.7
Class ²⁰	Class 4 Cost Estimate - Preliminary Engineering Report (PER) (-20% to 30%)		

2800 - ARCHITECTURE/ ENGINEERING (A/E)		27%	\$720,871.20
CONSULTANTS			\$500,605.00
5520	A/E Basic Services ²	\$500,605.00	
INTERDEPARTMENTAL CHARGES			\$220,266.20
6237	PWD Project Management Services (PMD) ³	\$110,133.10	
6238	PWD Construction Services (CSD) ³	\$110,133.10	
6203	Sponsor Department Charges ⁴		
2801 - SURVEYING⁵		2%	\$46,484.75
2802 - TESTING		2%	\$55,781.70
5730	Construction Material Testing ⁶	\$30,751.45	
5730	Geotechnical Report ⁷	\$25,030.25	
5588	Hazardous Material Testing ⁸		
5588	Environmental Assessment ⁹		
2803 - INSPECTIONS		0%	
2804 - CONSTRUCTION (see detailed cost estimate)		54%	\$1,430,300.00
5560	New Construction ¹	\$1,430,300.00	
5600	Hazardous Material Abatement ¹⁸		
6324	ROCIP ¹⁹	\$0.00	
2805 - LAND & RIGHT-OF-WAY¹¹		4%	\$100,000.00
2806 - MISCELLANEOUS		1%	\$28,900.69
5580	Debt Issuance ¹³	\$14,597.69	
6843	Permits/ Fees ¹⁴	\$14,303.00	
7157	GAATN Connection ¹⁵	\$0.00	
2807 - EQUIPMENT/FURNISHINGS¹⁶		0%	
2808 - MATERIALS		0%	
2809 - ART IN PUBLIC PLACES (Rounded to nearest \$100)¹²		2%	\$45,100.00
PROJECT SUB-TOTAL			\$2,412,840.65
COST CONTINGENCY (Based on project risk analysis)		Risk Probability % ¹⁰	
		10.00%	9%
			\$241,284.07
TOTAL PROJECT BUDGET ESTIMATE (Rounded to nearest \$1,000)		100%	\$2,669,000.00

CLASS 4 COST ESTIMATE ACCURACY RANGE

LOW (-20%)	\$2,135,200.00	to	HIGH (30%)	\$3,469,700.00
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CIVIL PROJECT BUDGET ESTIMATE

PROJECT CHARTER ATTACHMENT A

NOTE: Refer to the Project Charter or Construction Cost Estimate for goals and initial scope of work

Project Name	Walnut Creek Trail Connector - La Loma - ALTERNATIVE 3		
Department	Public Works	CIP ID	10796.017
Category	Mobility Infrastructure	Index ²¹	104.7
Class ²⁰	Class 4 Cost Estimate - Preliminary Engineering Report (PER) (-20% to 30%)		

2800 - ARCHITECTURE/ ENGINEERING (A/E)		27%	\$565,992.00
CONSULTANTS			\$393,050.00
5520	A/E Basic Services ²	\$393,050.00	
INTERDEPARTMENTAL CHARGES			\$172,942.00
6237	PWD Project Management Services (PMD) ³	\$86,471.00	
6238	PWD Construction Services (CSD) ³	\$86,471.00	
6203	Sponsor Department Charges ⁴		
2801 - SURVEYING⁵		2%	\$36,497.50
2802 - TESTING		2%	\$43,797.00
5730	Construction Material Testing ⁶	\$24,144.50	
5730	Geotechnical Report ⁷	\$19,652.50	
5588	Hazardous Material Testing ⁸		
5588	Environmental Assessment ⁹		
2803 - INSPECTIONS		0%	
2804 - CONSTRUCTION (see detailed cost estimate)		54%	\$1,123,000.00
5560	New Construction ¹	\$1,123,000.00	
5600	Hazardous Material Abatement ¹⁸		
6324	ROCIP ¹⁹	\$0.00	
2805 - LAND & RIGHT-OF-WAY¹¹		2%	\$50,000.00
2806 - MISCELLANEOUS		1%	\$22,518.79
5580	Debt Issuance ¹³	\$11,288.79	
6843	Permits/ Fees ¹⁴	\$11,230.00	
7157	GAATN Connection ¹⁵	\$0.00	
2807 - EQUIPMENT/FURNISHINGS¹⁶		0%	
2808 - MATERIALS		0%	
2809 - ART IN PUBLIC PLACES (Rounded to nearest \$100)¹²		2%	\$35,400.00
PROJECT SUB-TOTAL			\$1,865,916.50
COST CONTINGENCY (Based on project risk analysis)		Risk Probability % ¹⁰	
		10.00%	9%
			\$186,591.65
TOTAL PROJECT BUDGET ESTIMATE (Rounded to nearest \$1,000)		100%	\$2,064,000.00

CLASS 4 COST ESTIMATE ACCURACY RANGE

LOW (-20%)	\$1,651,200.00	to	HIGH (30%)	\$2,683,200.00
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CIVIL PROJECT BUDGET ESTIMATE

PROJECT CHARTER ATTACHMENT A

NOTE: Refer to the Project Charter or Construction Cost Estimate for goals and initial scope of work

Project Name	Walnut Creek Trail Connector - La Loma - LOTT - OPTION 1		
Department	Public Works	CIP ID	10796.017
Category	Mobility Infrastructure	Index ²¹	104.7
Class ²⁰	Class 4 Cost Estimate - Preliminary Engineering Report (PER) (-20% to 30%)		

2800 - ARCHITECTURE/ ENGINEERING (A/E)		28%	\$287,000.00
CONSULTANTS		\$125,000.00	
5520	A/E Basic Services ²	\$125,000.00	
INTERDEPARTMENTAL CHARGES		\$162,000.00	
6237	PWD Project Management Services (PMD) ³	\$92,500.00	
6238	PWD Construction Services (CSD) ³	\$69,500.00	
6203	Sponsor Department Charges ⁴		
2801 - SURVEYING⁵		2%	\$25,000.00
2802 - TESTING		2%	\$25,000.00
5730	Construction Material Testing ⁶	\$12,500.00	
5730	Geotechnical Report ⁷	\$12,500.00	
5588	Hazardous Material Testing ⁸		
5588	Environmental Assessment ⁹		
2803 - INSPECTIONS		0%	
2804 - CONSTRUCTION (see detailed cost estimate)		48%	\$500,000.00
5560	New Construction ¹	\$500,000.00	
5600	Hazardous Material Abatement ¹⁸		
6324	ROCIP ¹⁹	\$0.00	
2805 - LAND & RIGHT-OF-WAY¹¹		8%	\$80,000.00
2806 - MISCELLANEOUS		1%	\$10,679.14
5580	Debt Issuance ¹³	\$5,679.14	
6843	Permits/ Fees ¹⁴	\$5,000.00	
7157	GAATN Connection ¹⁵	\$0.00	
2807 - EQUIPMENT/FURNISHINGS¹⁶		0%	
2808 - MATERIALS		0%	
2809 - ART IN PUBLIC PLACES (Rounded to nearest \$100)¹²		2%	\$16,700.00
PROJECT SUB-TOTAL			\$938,700.00
COST CONTINGENCY (Based on project risk analysis)		Risk Probability % ¹⁰	
		10.00%	9%
			\$93,870.00
TOTAL PROJECT BUDGET ESTIMATE (Rounded to nearest \$1,000)		100%	\$1,038,000.00

CLASS 4 COST ESTIMATE ACCURACY RANGE LOW (-20%) to HIGH (30%)
 \$830,400.00 to \$1,349,400.00



CIVIL PROJECT BUDGET ESTIMATE

PROJECT CHARTER ATTACHMENT A

NOTE: Refer to the Project Charter or Construction Cost Estimate for goals and initial scope of work

Project Name	Walnut Creek Trail Connector - La Loma - LOTT - OPTION 2		
Department	Public Works	CIP ID	10796.017
Category	Mobility Infrastructure	Index ²¹	104.7
Class ²⁰	Class 4 Cost Estimate - Preliminary Engineering Report (PER) (-20% to 30%)		

2800 - ARCHITECTURE/ ENGINEERING (A/E)		30%	\$275,520.00
CONSULTANTS		\$120,000.00	
5520	A/E Basic Services ²	\$120,000.00	
INTERDEPARTMENTAL CHARGES		\$155,520.00	
6237	PWD Project Management Services (PMD) ³	\$88,800.00	
6238	PWD Construction Services (CSD) ³	\$66,720.00	
6203	Sponsor Department Charges ⁴		
2801 - SURVEYING⁵		3%	\$24,000.00
2802 - TESTING		3%	\$24,000.00
5730	Construction Material Testing ⁶	\$12,000.00	
5730	Geotechnical Report ⁷	\$12,000.00	
5588	Hazardous Material Testing ⁸		
5588	Environmental Assessment ⁹		
2803 - INSPECTIONS		0%	
2804 - CONSTRUCTION (see detailed cost estimate)		52%	\$480,000.00
5560	New Construction ¹	\$480,000.00	
5600	Hazardous Material Abatement ¹⁸		
6324	ROCIP ¹⁹	\$0.00	
2805 - LAND & RIGHT-OF-WAY¹¹		1%	\$10,000.00
2806 - MISCELLANEOUS		1%	\$9,848.24
5580	Debt Issuance ¹³	\$5,048.24	
6843	Permits/ Fees ¹⁴	\$4,800.00	
7157	GAATN Connection ¹⁵	\$0.00	
2807 - EQUIPMENT/FURNISHINGS¹⁶		0%	
2808 - MATERIALS		0%	
2809 - ART IN PUBLIC PLACES (Rounded to nearest \$100)¹²		2%	\$16,100.00
PROJECT SUB-TOTAL			\$834,420.00
COST CONTINGENCY (Based on project risk analysis)		Risk Probability % ¹⁰	
		10.00%	9%
			\$83,442.00
TOTAL PROJECT BUDGET ESTIMATE (Rounded to nearest \$1,000)		100%	\$923,000.00

CLASS 4 COST ESTIMATE ACCURACY RANGE

LOW (-20%)	\$738,400.00	to	HIGH (30%)	\$1,199,900.00
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FOOTNOTES (Assumptions & Constraints)

- 1 The construction cost estimate is based on the detailed estimate provided by <name> with <company> dated <mm/dd/yyyy>. The detailed estimate includes a description of the project scope, assumptions, exclusions and source/ references for all cost information.
- 2 The A/E design budget estimate is based on historical City of Austin actual costs per construction value. It includes reimbursable expenses and all services from conceptual through warranty phases. This estimate excludes additional services.
- 3 Project management and construction services budget estimates are based on historical City of Austin - Public Works actual costs per construction value.
- 4 The Sponsoring department has chosen to charge their project management time to the project. This budget estimate is provided by <name> with <department> dated <mm/dd/yyyy> and accounts for management through all phases of the project life cycle.
- 5 The survey cost estimate is based on a historical average of City of Austin - Public Works actual costs per construction value.
- 6 The material testing cost estimate is based on a historical average of City of Austin - Public Works actual costs per construction value.
- 7 The geotechnical cost estimate is based on a historical average of City of Austin - Public Works actual costs per construction value.
- 8 The cost estimate for hazardous testing for asbestos, lead and mold is based on a historical average of City of Austin - Public Works actual costs per construction value. <This cost is included in the 'Environmental Assessment' budget line.>
- 9 The cost estimate for an Environmental Phase 1 assessment is based on historical averages of City of Austin - Public Works actual costs per construction value. <This cost estimate includes the testing for hazardous materials.>
- 10 When estimating the cost for a project, there is always uncertainty as to the precise content of all items in the estimate, how work will be performed, what work conditions will be like when the project is implemented and so on. These uncertainties are risks to the project. Some refer to these risks as "known-unknowns" because the estimator is aware of them, and based on past experience, can even estimate their probable costs, or in this case, the 'Risk Probability %'. The estimated costs of the known-unknowns is referred to by cost estimators as cost contingency. The Cost Contingency amount is calculated by multiplying the Risk Probability % by the 'Project Sub-Total' which excludes the 'Debt Issuance'.
- 11 The land acquisition cost estimate is based on average real estate prices per zip code and is provided by <name> of the Real Estate Office dated <mm/dd/yyyy>.
- 12 As required by the 1985 City Ordinance (No. 850926-0; amended by No. 861009-A; amended by No. 970904-B; Austin City Code Volume 1, Title IX, Chapter 9-2).
- 13 This amount is not included in the subtotal for '2806 - Miscellaneous'. It is instead included in the Total Project Budget Estimate.
- 14 Permits/ fees includes costs for site development, building and demolition permits, LEED certification, TDLR requirements and any others.
- 15 The GAATN connection cost estimate is based on the detailed estimate provided by <name> with CTM dated <mm/dd/yyyy>. Assumes a specific site exists to determine the scope of work.
- 16 The budget line for equipment/ furniture (FF&E) includes costs for office furniture, equipment, data and voice, audio/ visual solutions, and security. See attached breakdown of the budget estimate for each cost.
- 17 Not used.
- 18 Demolition is required and the area may contain hazardous material. This cost estimate is provided by <name> with Building Services dated <mm/dd/yyyy>. It includes the cost of abatement before demolition can begin and is separate from the construction contract.
- 19 Rolling Owner Controlled Insurance Program (ROCIP)
- 20 The cost estimate classification is to align the project budget estimate with the phase of design scope development and decision making process. The five (5) class levels provides a summary of the maturity level of project definition (i.e., 30% or PER) characteristic. The maturity is roughly indicated by a percentage of complete definition, or design phase; however, it is the maturity of the defining design deliverables that is the determinant, not the percent or design phase. The specific deliverables, and their maturity or status are provided in the Construction Cost Estimating instructions. The percentage range in parenthesis represents the variation of the cost estimate from actual costs. The budget estimate uses the highest value of the range and is reflected in the Contingency's costs. The contingency level reduces as the design matures to a Class 1.
- 21 The base index represents the Engineering News-Record's Building Cost Index (BCI) for the month the budget estimate is created and accepted. The index is used to validate the escalation rate to improve the cost estimating processes.

CITY OF AUSTIN

PROBABLE CONSTRUCTION COST ESTIMATE (Form 4)

PROJECT NAME					LA LOMA TRAIL - PROPOSED ALTERNATIVE 1a - Underpass existing Railroad bridge at Tanehill	ESTIMATE CLASS
PROJECT LIMITS					SARA DRIVE TO SOUTHERN WALNUT CREEK TRAIL	D
PREPARED		SERVICE AGREEMENT/AMENDMENT/WORK ORDER #	C.I.P. NUMBER	FUND	AGENCY	ORGANIZATION
By		JOTHIKA THIVAKARAN	C.I.P ID #	8119	6207	L220
Date		10/23/2017	11796.017			
SUMMARY OF WORK						
Proposed Alternative 1a approximately 2200 LF of trail segment connecting Sara Drive / Prock Lane to existing Southern Walnut Creek Trail (SWCT) near Tanehill branch creek. The proposed alternative alignment will follow the existing beaten path from SWCT to the Railroad track and will underpass the tracks utilizing the existing railroad bridge and will be parallel to left bank of the Tanehill Branch Creek. There are two creek crossing near Sara Drive need to be addressed for this alignment.						
COMMENTS						
This estimate is preliminary and are based on the preliminary design stage. The level of accuracy will increase as the design moves forward and topographic surveys and final designs become available.						
CONSTRUCTION COST ESTIMATE						
ITEM	ITEM DESCRIPTION		QUANTITY	UNIT	UNIT PRICE	AMOUNT
102S-A	CLEARING AND GRUBBING		1.01	AC	\$15,000.00	\$15,151.55
104S-A	REMOVE P.C. CONCRETE SLAB		12,000	SF	\$6.00	\$72,000.00
111S-A	EXCAVATION		1,600	CY	\$45.00	\$72,000.00
132S-A	EMBANKMENT		1,600	CY	\$45.00	\$72,000.00
201S	SUBGRADE PREPARATION		4,400	SY	\$6.00	\$26,400.00
204S-A	PORTLAND CEMENT TREATMENT OF MATERIALS IN PLACE 8 IN THICKNESS		4,400	SY	\$30.00	\$132,000.00
360S-A	6 IN. CONCRETE PAVEMENT		2,900	SY	\$80.00	\$232,000.00
414S-C	CAST-IN-PLACE PORTLAND CEMENT CONCRETE RETAINING WALL, INCLUDING REINFORCEMENT		100	CY	\$600.00	\$60,000.00
432S-PRC-4	PEDESTRIAN ADA RAILING - OPTION 3 (STANDARD 707S-4)		900	LF	\$80.00	\$72,000.00
591S-A	DRY ROCK RIPRAP		1,000	SY	\$150.00	\$150,000.00
591S-F	CONCRETE RIPRAP, 6IN		1,100	SY	\$200.00	\$220,000.00
604S-E	NATIVE SEEDING FOR EROSION CONTROL METHOD, FIBER MULCH		2,400	SY	\$1.00	\$2,400.00
604S-I	TOP SOIL AND SEED BED PREPARATION		2,400	SY	\$5.00	\$12,000.00
610S-E	TREE TRUNK PROTECTION, WOOD PLANKING		63	EA	\$570.00	\$35,910.00
639S	ROCK BERM		600	LF	\$45.00	\$27,000.00
641S	STABILIZED CONSTRUCTION ENTRANCE		4.0	EA	\$1,500.00	\$6,000.00
642S	SILT FENCE FOR EROSION CONTROL		4,600	LF	\$5.00	\$23,000.00
803S-MO	BARRICADES, SIGNS AND TRAFFIC HANDLING		12	MO	\$1,500.00	\$18,000.00
824S	TRAFFIC SIGNS		10	EA	\$880.00	\$8,800.00
829S-F	TYPE II BICYCLE LANE PREFERENTIAL (DIRECTIONAL ARROW) SYMBOLS, WHITE IN COLOR		16	EA	\$500.00	\$8,000.00
871S-A-4YB	REFLECTORIZED TYPE I THERMOPLASTIC PAVEMENT MARKINGS 4 INCHES IN WIDTH, 90 MILS IN THICKNESS YELLOW IN COLOR (BROKEN)		1,100	LF	\$4.00	\$4,400.00
871S-A-4YS	REFLECTORIZED TYPE I THERMOPLASTIC PAVEMENT MARKINGS 4 INCHES IN WIDTH, 90 MILS IN THICKNESS, YELLOW IN COLOR (SOLID)		1,100	LF	\$4.00	\$4,400.00
	CHANNEL CROSSING		1	LS	\$80,000.00	\$80,000.00
SS490S-1	BOLLARDS		8	EA	\$850.00	\$6,800.00
SS16651-TL	TRAIL LIGHT POLE WITH LIGHT		22	EA	\$2,500.00	\$55,000.00
SS16651-TL-C	CONTROLS (TRAILS)		1.00	LS	\$8,000.00	\$8,000.00
SS16651-TL-F	TRAIL LIGHT POLE FOUNDATION		22	EA	\$1,200.00	\$26,400.00
	PEDESTRIAN BRIDGE (20 FT SPAN, STEEL FRAME, WOOD DECK)		1.00	LS	\$30,000.00	\$30,000.00
						\$0.00
						\$0.00
						\$0.00
						\$0.00
LINE ITEM TOTAL						\$1,479,661.55
CONTINGENCY						40.00%
CONSTRUCTION COST ESTIMATE						\$2,071,526.17

CITY OF AUSTIN

PROBABLE CONSTRUCTION COST ESTIMATE (Form 4)

PROJECT NAME					LA LOMA TRAIL - PROPOSED ALTERNATIVE 1b - OVERPASS	ESTIMATE CLASS
PROJECT LIMITS					SARA DRIVE TO SOUTHERN WALNUT CREEK TRAIL	D
PREPARED		SERVICE AGREEMENT/AMENDMENT/WORK ORDER #	C.I.P. NUMBER	FUND	AGENCY	ORGANIZATION
By		JOTHIKA THIVAKARAN	C.I.P ID #	8119	6207	L220
Date		2/6/2018	11796.017			
SUMMARY OF WORK						
Proposed Alternative 1a approximately 2200 LF of trail segment connecting Sara Drive / Prock Lane to existing Southern Walnut Creek Trail (SWCT) near Tannehill branch creek. The proposed alternative alignment will follow the existing beaten path from SWCT to the Railroad track and will overpass the tracks with the proposed bridge and will be parallel to left bank of the Tannehill Branch Creek.						
COMMENTS						
This estimate does not include impacts / relocation of Austin Energy overhead electric/ transmission line. This estimate is preliminary and are based on the preliminary design stage. The level of accuracy will increase as the design moves forward and topographic surveys and geotechnical reports and final design become available.						
CONSTRUCTION COST ESTIMATE						
ITEM	ITEM DESCRIPTION		QUANTITY	UNIT	UNIT PRICE	AMOUNT
102S-A	CLEARING AND GRUBBING		0.99	AC	\$15,000.00	\$14,807.19
104S-A	REMOVE P.C. CONCRETE SLAB		12,000	SF	\$6.00	\$72,000.00
111S-A	EXCAVATION		3,000	CY	\$45.00	\$135,000.00
132S-A	EMBANKMENT		3,000	CY	\$45.00	\$135,000.00
201S	SUBGRADE PREPARATION		2,500	SY	\$6.00	\$15,000.00
204S-A	PORTLAND CEMENT TREATMENT OF MATERIALS IN PLACE 8 IN THICKNESS		2,500	SY	\$30.00	\$75,000.00
360S-A	6 IN. CONCRETE PAVEMENT		1,700	SY	\$80.00	\$136,000.00
403S-CY-1	BRIDGE ABUTMENT AND CONCRETE BENT CAPS		90	CY	\$1,500.00	\$135,000.00
403S-SY	CONCRETE TOPPING SLAB		1,500	SY	\$55.00	\$82,500.00
414S-C	CAST-IN-PLACE PORTLAND CEMENT CONCRETE RETAINING WALL, INCLUDING REINFORCEMENT		220	CY	\$600.00	\$132,000.00
420S-A	DRILLED SHAFT, 24" DIA		1,000	LF	\$80.00	\$80,000.00
432S-PRC-4	PEDESTRIAN ADA RAILING - OPTION 3 (STANDARD 707S-4)		2,000	LF	\$80.00	\$160,000.00
591S-A	DRY ROCK RIPRAP		1,000	SY	\$150.00	\$150,000.00
604S-E	NATIVE SEEDING FOR EROSION CONTROL METHOD, FIBER MULCH		1,400	SY	\$1.00	\$1,400.00
604S-I	TOP SOIL AND SEED BED PREPARATION		1,400	SY	\$5.00	\$7,000.00
610S-E	TREE TRUNK PROTECTION, WOOD PLANKING		63	EA	\$570.00	\$35,910.00
639S	ROCK BERM		600	LF	\$45.00	\$27,000.00
641S	STABILIZED CONSTRUCTION ENTRANCE		4.0	EA	\$1,500.00	\$6,000.00
642S	SILT FENCE FOR EROSION CONTROL		4,500	LF	\$5.00	\$22,500.00
803S-MO	BARRICADES, SIGNS AND TRAFFIC HANDLING		12	MO	\$1,500.00	\$18,000.00
824S	TRAFFIC SIGNS		10	EA	\$880.00	\$8,800.00
829S-F	TYPE II BICYCLE LANE PREFERENTIAL (DIRECTIONAL ARROW) SYMBOLS, WHITE IN COLOR		16	EA	\$500.00	\$8,000.00
871S-A-4YB	REFLECTORIZED TYPE I THERMOPLASTIC PAVEMENT MARKINGS 4 INCHES IN WIDTH, 90 MILS IN THICKNESS YELLOW IN COLOR (BROKEN)		1,075	LF	\$4.00	\$4,300.00
871S-A-4YS	REFLECTORIZED TYPE I THERMOPLASTIC PAVEMENT MARKINGS 4 INCHES IN WIDTH, 90 MILS IN THICKNESS, YELLOW IN COLOR (SOLID)		1,075	LF	\$4.00	\$4,300.00
SS490S-1	BOLLARDS		8	EA	\$850.00	\$6,800.00
SS16651-TL	TRAIL LIGHT POLE WITH LIGHT		22	EA	\$2,500.00	\$55,000.00
SS16651-TL-C	CONTROLS (TRAILS)		1.00	LS	\$8,000.00	\$8,000.00
SS16651-TL-F	TRAIL LIGHT POLE FOUNDATION		22	EA	\$1,200.00	\$26,400.00
SS5442-1	3" DEEP X 16 GAUGE GALVANIZED FORM DECK		10,800	SF	\$30.00	\$324,000.00
						\$0.00
LINE ITEM TOTAL						\$1,885,717.19
CONTINGENCY						40.00%
CONSTRUCTION COST ESTIMATE						\$2,640,004.07

CITY OF AUSTIN

PROBABLE CONSTRUCTION COST ESTIMATE (Form 4)

PROJECT NAME	LA LOMA TRAIL - PROPOSED ALTERNATIVE 1 b - OPT 2 - Underpass using CONTECH Tunnel Liner Plate				ESTIMATE CLASS
PROJECT LIMITS	SARA DRIVE TO SOUTHERN WALNUT CREEK TRAIL				D
PREPARED	SERVICE AGREEMENT/AMENDMENT/WORK ORDER #	C.I.P. NUMBER	FUND	AGENCY	ORGANIZATION
By	JOTHIKA THIVAKARAN	C.I.P ID #	8119	6207	L220
Date	4/26/2018	11796.017			
SUMMARY OF WORK					
Proposed Alternative 1b approximately 2150 LF of trail segment connecting Sara Drive / Prock Lane to existing Southern Walnut Creek Trail (SWCT) near Tannehill branch creek. The proposed alternative alignment will follow the existing beaten path from SWCT to the Railroad track and underpass the track at about 100 FT east from the creek centerline with a Contech Tunnel Liner Plate and will be parallel to left bank after passing tracks to Sara Drive. There are two creek crossing near Sara Drive need to be addressed for this alignment.					
COMMENTS					
This estimate is preliminary and are based on a preliminary design stage. Tunnel Liner Plate/ construction costs are based on Contech Engineering Solution's price. The level of accuracy will increase as the design moves forward and topographic surveys and environmental report become available. This does not include any cost associated with railroad activity monitoring during the construction.					
CONSTRUCTION COST ESTIMATE					
ITEM	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
102S-A	CLEARING AND GRUBBING	0.99	AC	\$15,000.00	\$14,807.19
111S-A	EXCAVATION	4,111	CY	\$45.00	\$185,000.00
132S-A	EMBANKMENT	3,000	CY	\$45.00	\$135,000.00
201S	SUBGRADE PREPARATION	4,300	SY	\$6.00	\$25,800.00
204S-A	PORTLAND CEMENT TREATMENT OF MATERIALS IN PLACE 8 IN THICKNESS	4,300	SY	\$30.00	\$129,000.00
360S-A	6 IN. CONCRETE PAVEMENT	2,900	SY	\$80.00	\$232,000.00
403S-CY	CONCRETE FOR STRUCTURES	200.0	CY	\$200.00	\$40,000.00
414S-C	CAST-IN-PLACE PORTLAND CEMENT CONCRETE RETAINING WALL, INCLUDING REINFORCEMENT	100	CY	\$600.00	\$60,000.00
432S-PRC-4	PEDESTRIAN ADA RAILING - OPTION 3 (STANDARD 707S-4)	900	LF	\$80.00	\$72,000.00
604S-E	NATIVE SEEDING FOR EROSION CONTROL METHOD, FIBER MULCH	2,400	SY	\$1.00	\$2,400.00
604S-I	TOP SOIL AND SEED BED PREPARATION	2,400	SY	\$5.00	\$12,000.00
610S-E	TREE TRUNK PROTECTION, WOOD PLANKING	63	EA	\$570.00	\$35,910.00
639S	ROCK BERM	600	LF	\$45.00	\$27,000.00
641S	STABILIZED CONSTRUCTION ENTRANCE	4.0	EA	\$1,500.00	\$6,000.00
642S	SILT FENCE FOR EROSION CONTROL	4,600	LF	\$5.00	\$23,000.00
803S-MO	BARRICADES, SIGNS AND TRAFFIC HANDLING	12	MO	\$1,500.00	\$18,000.00
824S	TRAFFIC SIGNS	10	EA	\$880.00	\$8,800.00
829S-F	TYPE II BICYCLE LANE PREFERENTIAL (DIRECTIONAL ARROW) SYMBOLS, WHITE IN COLOR	16	EA	\$500.00	\$8,000.00
871S-A-4YB	REFLECTORIZED TYPE I THERMOPLASTIC PAVEMENT MARKINGS 4 INCHES IN WIDTH, 90 MILS IN THICKNESS YELLOW IN COLOR (BROKEN)	1,075	LF	\$4.00	\$4,300.00
871S-A-4YS	REFLECTORIZED TYPE I THERMOPLASTIC PAVEMENT MARKINGS 4 INCHES IN WIDTH, 90 MILS IN THICKNESS, YELLOW IN COLOR (SOLID)	1,075	LF	\$4.00	\$4,300.00
CTECH-1	124 IN DIA, 10 GAUGE HOT DIP GALVANIZED TUNNEL LINER PLATE (CONTECH)	220	LF	\$1,000.00	\$220,000.00
CTECH-2	TUNNEL EXCAVATION/ CONSTRUCTION	220	LF	\$1,600.00	\$352,000.00
CTECH-3	TUNNEL TRANSITION - BOTH ENDS	300	LF	\$700.00	\$210,000.00
CTECH-4	TUNNEL ENDS (RETAINING WALL)	2.0	EA	\$40,000.00	\$80,000.00
CTECH-5	DRAINAGE	1.0	LS	\$60,000.00	\$60,000.00
SS490S-1	BOLLARDS	8	EA	\$850.00	\$6,800.00
SS16651-TL	TRAIL LIGHT POLE WITH LIGHT	22	EA	\$2,500.00	\$55,000.00
SS16651-TL-C	CONTROLS (TRAILS)	1.00	LS	\$8,000.00	\$8,000.00
SS16651-TL-F	TRAIL LIGHT POLE FOUNDATION	22	EA	\$1,200.00	\$26,400.00
	PEDESTRIAN BRIDGE (20 FT SPAN, STEEL FRAME, WOOD DECK)	1.00	LS	\$30,000.00	\$30,000.00
LINE ITEM TOTAL					\$2,091,517.19
CONTINGENCY					40.00%
CONSTRUCTION COST ESTIMATE					\$2,928,124.07

CITY OF AUSTIN
PROBABLE CONSTRUCTION COST ESTIMATE (Form 4)

PROJECT NAME					ESTIMATE CLASS	
LA LOMA TRAIL - PROPOSED ALTERNATIVE 1 b - OPT 3 - At-Grade crossing near Tannehill					D	
PROJECT LIMITS						
SARA DRIVE TO SOUTHERN WALNUT CREEK TRAIL						
PREPARED		SERVICE AGREEMENT/AMENDMENT/WORK ORDER #	C.I.P. NUMBER	FUND	AGENCY	ORGANIZATION
By	JOTHIKA THIVAKARAN		C.I.P ID #	8119	6207	L220
Date	10/23/2017		11796.017			
SUMMARY OF WORK						
Proposed Alternative 1b approximately 2150 LF of trail segment connecting Sara Drive / Prock Lane to existing Southern Walnut Creek Trail (SWCT) near Tannehill branch creek. The proposed alternative alignment will follow the existing beaten path from SWCT to the Railroad track and cross the tracks at-grade and will be parallel to left bank of the Tannehill Branch Creek. There are two creek crossing need to be addressed for this alignment.						
COMMENTS						
This estimate is preliminary and are based on a preliminary design stage. The level of accuracy will increse as the design moves forward and topographic surveys and environmental report become available. This estimate includes pathway crossing with railroad signs as per TxDOT detail RCD(2)-16. Assumes the construction during off railroad service time.						
CONSTRUCTION COST ESTIMATE						
ITEM	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	
102S-A	CLEARING AND GRUBBING	0.99	AC	\$15,000.00	\$14,807.19	
111S-A	EXCAVATION	3,000	CY	\$45.00	\$135,000.00	
132S-A	EMBANKMENT	3,000	CY	\$45.00	\$135,000.00	
201S	SUBGRADE PREPARATION	4,300	SY	\$6.00	\$25,800.00	
204S-A	PORTLAND CEMENT TREATMENT OF MATERIALS IN PLACE 8 IN THICKNESS	4,300	SY	\$30.00	\$129,000.00	
360S-A	6 IN. CONCRETE PAVEMENT	2,900	SY	\$80.00	\$232,000.00	
414S-C	CAST-IN-PLACE PORTLAND CEMENT CONCRETE RETAINING WALL, INCLUDING REINFORCEMENT	100	CY	\$600.00	\$60,000.00	
432S-PRC-4	PEDESTRIAN ADA RAILING - OPTION 3 (STANDARD 707S-4)	900	LF	\$80.00	\$72,000.00	
604S-E	NATIVE SEEDING FOR EROSION CONTROL METHOD, FIBER MULCH	2,400	SY	\$1.00	\$2,400.00	
604S-I	TOP SOIL AND SEEED BED PREPARATION	2,400	SY	\$5.00	\$12,000.00	
610S-E	TREE TRUNK PROTECTION, WOOD PLANKING	63	EA	\$570.00	\$35,910.00	
639S	ROCK BERM	600	LF	\$45.00	\$27,000.00	
641S	STABILIZED CONSTRUCTION ENTRANCE	4.0	EA	\$1,500.00	\$6,000.00	
642S	SILT FENCE FOR EROSION CONTROL	4,500	LF	\$5.00	\$22,500.00	
803S-MO	BARRICADES, SIGNS AND TRAFFIC HANDLING	12	MO	\$1,500.00	\$18,000.00	
824S	TRAFFIC SIGNS	10	EA	\$880.00	\$8,800.00	
829S-F	TYPE II BICYCLE LANE PREFERENTIAL (DIRECTIONAL ARROW) SYMBOLS, WHITE IN COLOR	16	EA	\$500.00	\$8,000.00	
871S-A-4YB	REFLECTORIZED TYPE I THERMOPLASTIC PAVEMENT MARKINGS 4 INCHES IN WIDTH, 90 MILS IN THICKNESS YELLOW IN COLOR (BROKEN)	1,075	LF	\$4.00	\$4,300.00	
871S-A-4YS	REFLECTORIZED TYPE I THERMOPLASTIC PAVEMENT MARKINGS 4 INCHES IN WIDTH, 90 MILS IN THICKNESS, YELLOW IN COLOR (SOLID)	1,075	LF	\$4.00	\$4,300.00	
SS490S-1	BOLLARDS	8	EA	\$850.00	\$6,800.00	
	RAILROAD CROSSING SIGNS	8	EA	\$1,000.00	\$8,000.00	
	RAILROAD AT-GRADE CROSSING TRACKS	1.00	LS	\$250,000.00	\$250,000.00	
SS16651-TL	TRAIL LIGHT POLE WITH LIGHT	5	EA	\$2,500.00	\$12,500.00	
SS16651-TL-C	CONTROLS (TRAILS)	1.00	LS	\$8,000.00	\$8,000.00	
SS16651-TL-F	TRAIL LIGHT POLE FOUNDATION	5	EA	\$1,200.00	\$6,000.00	
	PEDESTRIAN BRIDGE (20 FT SPAN, STEEL FRAME, WOOD DECK)	1.00	LS	\$30,000.00	\$30,000.00	
					\$0.00	
					\$0.00	
LINE ITEM TOTAL					\$1,274,117.19	
CONTINGENCY					40.00%	
CONSTRUCTION COST ESTIMATE					\$1,783,764.07	

CITY OF AUSTIN
PROBABLE CONSTRUCTION COST ESTIMATE (Form 4)

PROJECT NAME					ESTIMATE CLASS	
LA LOMA TRAIL - PROPOSED ALTERNATIVE 1 - SEGMENT 1					D	
PROJECT LIMITS						
SARA DRIVE TO SOUTHERN WALNUT CREEK TRAIL						
PREPARED		SERVICE AGREEMENT/AMENDMENT/WORK ORDER #	C.I.P. NUMBER	FUND	AGENCY	ORGANIZATION
By	JOTHIKA THIVAKARAN	C.I.P ID #	8119	6207	L220	
Date	2/13/2018	11796.017				
SUMMARY OF WORK						
Proposed segment will begin from Alf Avenue to La Loma Trail Alternative 1, which will cross the Tannehill Branch Creek with a pedestrian bridge. Proposed 12 ft wide concrete trail.						
COMMENTS						
This estimate is preliminary and are based on a preliminary design stage. The level of accuracy will increse as the design moves forward and topographic surveys and environmental report become available. This estimate does not include the pavement strong enough for truck traffic.						
CONSTRUCTION COST ESTIMATE						
ITEM	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	
102S-A	CLEARING AND GRUBBING	0.30	AC	\$15,000.00	\$4,476.59	
111S-A	EXCAVATION	100	CY	\$45.00	\$4,500.00	
132S-A	EMBANKMENT	100	CY	\$45.00	\$4,500.00	
201S	SUBGRADE PREPARATION	1,300	SY	\$6.00	\$7,800.00	
204S-A	PORTLAND CEMENT TREATMENT OF MATERIALS IN PLACE 8 IN THICKNESS	1,300	SY	\$30.00	\$39,000.00	
360S-A	6 IN. CONCRETE PAVEMENT	900	SY	\$80.00	\$72,000.00	
414S-C	CAST-IN-PLACE PORTLAND CEMENT CONCRETE RETAINING WALL, INCLUDING REINFORCEMENT	0	CY	\$600.00	\$0.00	
432S-PRC-4	PEDESTRIAN ADA RAILING - OPTION 3 (STANDARD 707S-4)	100	LF	\$80.00	\$8,000.00	
604S-E	NATIVE SEEDING FOR EROSION CONTROL METHOD, FIBER MULCH	700	SY	\$1.00	\$700.00	
604S-I	TOP SOIL AND SEED BED PREPARATION	700	SY	\$5.00	\$3,500.00	
610S-E	TREE TRUNK PROTECTION, WOOD PLANKING	5	EA	\$570.00	\$2,850.00	
639S	ROCK BERM	20	LF	\$45.00	\$900.00	
641S	STABILIZED CONSTRUCTION ENTRANCE	2.0	EA	\$1,500.00	\$3,000.00	
642S	SILT FENCE FOR EROSION CONTROL	1,500	LF	\$5.00	\$7,500.00	
803S-MO	BARRICADES, SIGNS AND TRAFFIC HANDLING	1	MO	\$1,500.00	\$1,500.00	
824S	TRAFFIC SIGNS	2	EA	\$880.00	\$1,760.00	
829S-F	TYPE II BICYCLE LANE PREFERENTIAL (DIRECTIONAL ARROW) SYMBOLS, WHITE IN COLOR	2	EA	\$500.00	\$1,000.00	
871S-A-4YB	REFLECTORIZED TYPE I THERMOPLASTIC PAVEMENT MARKINGS 4 INCHES IN WIDTH, 90 MILS IN THICKNESS YELLOW IN COLOR (BROKEN)	325	LF	\$4.00	\$1,300.00	
871S-A-4YS	REFLECTORIZED TYPE I THERMOPLASTIC PAVEMENT MARKINGS 4 INCHES IN WIDTH, 90 MILS IN THICKNESS, YELLOW IN COLOR (SOLID)	325	LF	\$4.00	\$1,300.00	
SS490S-1	BOLLARDS	8	EA	\$850.00	\$6,800.00	
SS16651-TL	TRAIL LIGHT POLE WITH LIGHT	2	EA	\$2,500.00	\$5,000.00	
SS16651-TL-C	CONTROLS (TRAILS)	1.00	LS	\$1,000.00	\$1,000.00	
SS16651-TL-F	TRAIL LIGHT POLE FOUNDATION	2	EA	\$1,200.00	\$2,400.00	
	PEDESTRIAN BRIDGE (20 FT SPAN, STEEL FRAME, WOOD DECK)	1.00	LS	\$30,000.00	\$30,000.00	
					\$0.00	
					\$0.00	
LINE ITEM TOTAL					\$210,786.59	
CONTINGENCY					40.00%	
CONSTRUCTION COST ESTIMATE					\$295,101.23	

CITY OF AUSTIN

PROBABLE CONSTRUCTION COST ESTIMATE (Form 4)

PROJECT NAME		LA LOMA TRAIL - PROPOSED ALTERNATIVE 2 -OPT2 - At-Grade crossing at Jain Lane				ESTIMATE CLASS
PROJECT LIMITS		BROOKSWOOD AVE TO JAIN LANE				D
PREPARED		SERVICE AGREEMENT/AMENDMENT/WORK ORDER #	C.I.P. NUMBER	FUND	AGENCY	ORGANIZATION
By		JOTHIKA THIVAKARAN	C.I.P ID #	8119	6207	L220
Date		10/23/2017	11796.017			
SUMMARY OF WORK						
Proposed Alternative 2 will be approximately 470 LF of trail connecting Brookswood Ave and Jain Lane through the vacant parcel at 1100 Brookswood Ave (TCAD parcel No. 0204190113) and cross the rail road tracks at-grade. This alignment can follow the existing beaten path in the vacant parcel and cross the tracks at-grade to Jain Lane.						
COMMENTS						
This estimate is preliminary and are based on a preliminary design stage. The level of accuracy will increase as the design moves forward and topographic surveys become available. Assumes the construction during off service time. This estimate includes pathway crossing with railroad signs as per TxDOT detail RCD(2)-16. Added sidewalk improvements and construction of missing sidewalk to connect SWCT & Sara Drive through Brookswood Avenue and Sauced St.						
CONSTRUCTION COST ESTIMATE						
ITEM	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	
102S-A	CLEARING AND GRUBBING	0.22	AC	\$10,000.00	\$2,157.95	
132S-A	EMBANKMENT	300	CY	\$45.00	\$13,500.00	
201S	SUBGRADE PREPARATION	900	SY	\$6.00	\$5,400.00	
204S-A	PORTLAND CEMENT TREATMENT OF MATERIALS IN PLACE 8 IN THICKNESS	900	SY	\$30.00	\$27,000.00	
360S-A	6 IN. CONCRETE PAVEMENT	600	SY	\$80.00	\$48,000.00	
414S-C	CAST-IN-PLACE PORTLAND CEMENT CONCRETE RETAINING WALL, INCLUDING REINFORCEMENT	100	CY	\$800.00	\$80,000.00	
432S-4	NEW P.C. CONCRETE SIDEWALKS 4-INCH THICKNESS	18,500	SF	\$24.00	\$444,000.00	
432S-PRC-4	PEDESTRIAN ADA RAILING - OPTION 3 (STANDARD 707S-4)	740	LF	\$75.00	\$55,500.00	
604S-E	NATIVE SEEDING FOR EROSION CONTROL METHOD, FIBER MULCH	500	SY	\$1.00	\$500.00	
604S-I	TOP SOIL AND SEED BED PREPARATION	500	SY	\$5.00	\$2,500.00	
610S-E	TREE TRUNK PROTECTION, WOOD PLANKING	5	EA	\$570.00	\$2,850.00	
639S	ROCK BERM	250	LF	\$45.00	\$11,250.00	
641S	STABILIZED CONSTRUCTION ENTRANCE	2.0	EA	\$1,500.00	\$3,000.00	
642S	SILT FENCE FOR EROSION CONTROL	1,140	LF	\$5.00	\$5,700.00	
803S-MO	BARRICADES, SIGNS AND TRAFFIC HANDLING	12	MO	\$1,500.00	\$18,000.00	
824S	TRAFFIC SIGNS	10	EA	\$880.00	\$8,800.00	
829S-F	TYPE II BICYCLE LANE PREFERENTIAL (DIRECTIONAL ARROW) SYMBOLS, WHITE IN COLOR	4	EA	\$500.00	\$2,000.00	
871S-A-4YB	REFLECTORIZED TYPE I THERMOPLASTIC PAVEMENT MARKINGS 4 INCHES IN WIDTH, 90 MILS IN THICKNESS YELLOW IN COLOR (BROKEN)	235	LF	\$4.00	\$940.00	
871S-A-4YS	REFLECTORIZED TYPE I THERMOPLASTIC PAVEMENT MARKINGS 4 INCHES IN WIDTH, 90 MILS IN THICKNESS, YELLOW IN COLOR (SOLID)	235	LF	\$4.00	\$940.00	
SS490S-1	BOLLARDS	6	EA	\$850.00	\$5,100.00	
	RAILROAD CROSSING SIGNS	8	EA	\$1,000.00	\$8,000.00	
	RAILROAD AT-GRADE CROSSING TRACKS	1.00	LS	\$250,000.00	\$250,000.00	
SS16651-TL	TRAIL LIGHT POLE WITH LIGHT	5	EA	\$2,500.00	\$12,500.00	
SS16651-TL-C	CONTROLS (TRAILS)	1.00	LS	\$8,000.00	\$8,000.00	
SS16651-TL-F	TRAIL LIGHT POLE FOUNDATION	5	1.00	\$1,200.00	\$6,000.00	
					\$0.00	
					\$0.00	
					\$0.00	
LINE ITEM TOTAL					\$1,021,637.95	
CONTINGENCY					40.00%	
CONSTRUCTION COST ESTIMATE					\$1,430,293.13	

CITY OF AUSTIN
CONSTRUCTION COST ESTIMATE (Form 4)

PROJECT NAME	LA LOMA TRAIL - PROPOSED ALTERNATIVE 3 - Underpass existing railroad bridge at Fort Branch				ESTIMATE CLASS
PROJECT LIMITS	PROCK LANE TO SOUTHERN WALNUT CREEK TRAIL				D
PREPARED	SERVICE AGREEMENT/AMENDMENT/WORK ORDER #	C.I.P. NUMBER	FUND	AGENCY	ORGANIZATION
By	JOTHIKA THIVAKARAN	C.I.P ID #	8119	6207	L220
Date	10/23/2017	11796.017			
SUMMARY OF WORK					
Proposed Alternative 3 will be approximately 1800 LF of trail connect the end of Prock Lane with the SWCT near Fort Branch Creek. This alternative will begin from Prock Lane end and continue eastward parallel to Tura Lane and turn towards south to cross the railroad track and connect with existing SWCT.					
COMMENTS					
This estimate is preliminary and are based on a preliminary design stage. The level of accuracy will increase as the design moves forward and topographic surveys and environmental report become available.					
CONSTRUCTION COST ESTIMATE					
ITEM	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
102S-A	CLEARING AND GRUBBING	0.83	AC	\$30,000.00	\$24,793.44
111S-A	EXCAVATION	2,200	CY	\$45.00	\$99,000.00
132S-A	EMBANKMENT	2,200	CY	\$45.00	\$99,000.00
201S	SUBGRADE PREPARATION	3,600	SY	\$6.00	\$21,600.00
204S-A	PORTLAND CEMENT TREATMENT OF MATERIALS IN PLACE 8 IN THICKNESS	3,600	SY	\$30.00	\$108,000.00
360S-A	6 IN. CONCRETE PAVEMENT	2,400	SY	\$80.00	\$192,000.00
604S-E	NATIVE SEEDING FOR EROSION CONTROL METHOD, FIBER MULCH	2,000	SY	\$1.00	\$2,000.00
604S-I	TOP SOIL AND SEED BED PREPARATION	2,000	SY	\$5.00	\$10,000.00
610S-E	TREE TRUNK PROTECTION, WOOD PLANKING	144	EA	\$570.00	\$82,080.00
639S	ROCK BERM	250	LF	\$45.00	\$11,250.00
641S	STABILIZED CONSTRUCTION ENTRANCE	3.0	EA	\$1,500.00	\$4,500.00
642S	SILT FENCE FOR EROSION CONTROL	3,800	LF	\$5.00	\$19,000.00
803S-MO	BARRICADES, SIGNS AND TRAFFIC HANDLING	12	MO	\$1,500.00	\$18,000.00
824S	TRAFFIC SIGNS	10	EA	\$880.00	\$8,800.00
829S-F	TYPE II BICYCLE LANE PREFERENTIAL (DIRECTIONAL ARROW) SYMBOLS, WHITE IN COLOR	16	EA	\$500.00	\$8,000.00
871S-A-4YB	REFLECTORIZED TYPE I THERMOPLASTIC PAVEMENT MARKINGS 4 INCHES IN WIDTH, 90 MILS IN THICKNESS YELLOW IN COLOR (BROKEN)	1,800	LF	\$4.00	\$7,200.00
871S-A-4YS	REFLECTORIZED TYPE I THERMOPLASTIC PAVEMENT MARKINGS 4 INCHES IN WIDTH, 90 MILS IN THICKNESS, YELLOW IN COLOR (SOLID)	1,800	LF	\$4.00	\$7,200.00
SS490S-1	BOLLARDS	6	EA	\$850.00	\$5,100.00
SS16651-TL	TRAIL LIGHT POLE WITH LIGHT	18	EA	\$2,500.00	\$45,000.00
SS16651-TL-C	CONTROLS (TRAILS)	1.00	LS	\$8,000.00	\$8,000.00
SS16651-TL-F	TRAIL LIGHT POLE FOUNDATION	18	1.00	\$1,200.00	\$21,600.00
					\$0.00
					\$0.00
					\$0.00
					\$0.00
					\$0.00
					\$0.00
LINE ITEM TOTAL					\$802,123.44
CONTINGENCY					40.00%
CONSTRUCTION COST ESTIMATE					\$1,122,972.82

CITY OF AUSTIN
PROBABLE CONSTRUCTION COST ESTIMATE

PROJECT NAME LA LOMA TRAIL - PROPOSED LOTT AVENUE CONNECT- OPTION 1					ESTIMATE CLASS
PROJECT LIMITS ELEANOR STREET TO LOTT AVE					D
PREPARED		SERVICE AGREEMENT/AMENDMENT/WORK ORDER #	C.I.P. NUMBER	FUND	AGENCY
By	JOTHIKA THIVAKARAN	C.I.P ID #	8119	6207	L220
Date	10/23/2017	11796.017			
SUMMARY OF WORK					
Proposed 450 LF of Eleanor connection will connect Eleanor Street with Lott Ave to provide access to the community in the east of Fort Branch Creek to La Loma trail. This connection will be through the vacant lot at 1124 Eleanor St (TCAD 0208210617) and 1125 Lott Ave. (TCAD 0208210650). This proposed trail segment will cross the Fort Branch creek with a proposed bridge structure.					
COMMENTS					
This estimate is preliminary and are based on a preliminary design stage. The level of accuracy will increse as the design moves forward and topographic surveys and environmental report become available.					
CONSTRUCTION COST ESTIMATE					
ITEM	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
102S-A	CLEARING AND GRUBBING	0.21	AC	\$15,000.00	\$3,099.18
111S-A	EXCAVATION	400	CY	\$45.00	\$18,000.00
132S-A	EMBANKMENT	400	CY	\$45.00	\$18,000.00
201S	SUBGRADE PREPARATION	900	SY	\$6.00	\$5,400.00
204S-A	PORTLAND CEMENT TREATMENT OF MATERIALS IN PLACE 8 IN THICKNESS	900	SY	\$30.00	\$27,000.00
360S-A	6 IN. CONCRETE PAVEMENT	600	SY	\$80.00	\$48,000.00
403S-CY-A	CONCRETE FOR STRUCTURES: ABUTMENT (PEDESTRIAN BRIDGE)	8	CY	\$550.00	\$4,400.00
420S-B-24	DRILLED SHAFT (24IN DIA, REINFORCING, 4,000 PSI CONCRETE)	96	LF	\$200.00	\$19,200.00
604S-E	NATIVE SEEDING FOR EROSION CONTROL METHOD, FIBER MULCH	500	SY	\$1.00	\$500.00
604S-I	TOP SOIL AND SEED BED PREPARATION	500	SY	\$5.00	\$2,500.00
610S-E	TREE TRUNK PROTECTION, WOOD PLANKING	25	EA	\$570.00	\$14,250.00
639S	ROCK BERM	300	LF	\$45.00	\$13,500.00
641S	STABILIZED CONSTRUCTION ENTRANCE	2.0	EA	\$1,500.00	\$3,000.00
642S	SILT FENCE FOR EROSION CONTROL	1,100	LF	\$5.00	\$5,500.00
803S-MO	BARRICADES, SIGNS AND TRAFFIC HANDLING	12	MO	\$1,500.00	\$18,000.00
824S	TRAFFIC SIGNS	10	EA	\$880.00	\$8,800.00
829S-F	TYPE II BICYCLE LANE PREFERENTIAL (DIRECTIONAL ARROW) SYMBOLS, WHITE IN COLOR	4	EA	\$500.00	\$2,000.00
871S-A-4YB	REFLECTORIZED TYPE I THERMOPLASTIC PAVEMENT MARKINGS 4 INCHES IN WIDTH, 90 MILS IN THICKNESS YELLOW IN COLOR (BROKEN)	450	LF	\$4.00	\$1,800.00
871S-A-4YS	REFLECTORIZED TYPE I THERMOPLASTIC PAVEMENT MARKINGS 4 INCHES IN WIDTH, 90 MILS IN THICKNESS, YELLOW IN COLOR (SOLID)	450	LF	\$4.00	\$1,800.00
	PEDESTRIAN BRIDGE (60 FT SPAN, STEEL FRAME, WOOD DECK)	1	LS	\$110,000.00	\$110,000.00
SS490S-1	BOLLARDS	6	EA	\$850.00	\$5,100.00
SS16651-TL	TRAIL LIGHT POLE WITH LIGHT	5	EA	\$2,500.00	\$12,500.00
SS16651-TL-C	CONTROLS (TRAILS)	1.00	LS	\$8,000.00	\$8,000.00
SS16651-TL-F	TRAIL LIGHT POLE FOUNDATION	5	1.00	\$1,200.00	\$6,000.00
					\$0.00
					\$0.00
					\$0.00
					\$0.00
					\$0.00
					\$0.00
					\$0.00
					\$0.00
LINE ITEM TOTAL					\$356,349.18
CONTINGENCY					40.00%
CONSTRUCTION COST ESTIMATE					\$498,888.85

CITY OF AUSTIN

PROBABLE CONSTRUCTION COST ESTIMATE (Form 4)

PROJECT NAME					LA LOMA TRAIL - PROPOSED LOTT AVENUE CONNECT- OPTION 2	ESTIMATE CLASS
PROJECT LIMITS					FORT BRANCH BLVD TO LOTT AVE	
PREPARED					SERVICE AGREEMENT/AMENDMENT/WORK ORDER #	D
By					JOTHIKA THIVAKARAN	ORGANIZATION
Date					1/22/2018	L220
C.I.P. NUMBER					8119	AGENCY
C.I.P ID #					11796.017	
SUMMARY OF WORK						
Proposed 400 LF of Eleanor connection will connect Fort Branch Blvd with Lott Ave to provide access to the community in the east of Fort Branch Creek to La Loma trail. This connection will be through the dedicated street ROW for Fort Branch Blvd and City of Austin parcels. This proposed trail segment will cross the Fort Branch creek with a proposed bridge structure.						
COMMENTS						
This estimate is preliminary and are based on a preliminary design stage. The level of accuracy will increase as the design moves forward and topographic surveys and environmental report become available.						
CONSTRUCTION COST ESTIMATE						
ITEM	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT	
102S-A	CLEARING AND GRUBBING	0.18	AC	\$15,000.00	\$2,754.83	
111S-A	EXCAVATION	370	CY	\$45.00	\$16,650.00	
132S-A	EMBANKMENT	370	CY	\$45.00	\$16,650.00	
201S	SUBGRADE PREPARATION	800	SY	\$6.00	\$4,800.00	
204S-A	PORTLAND CEMENT TREATMENT OF MATERIALS IN PLACE 8 IN THICKNESS	800	SY	\$30.00	\$24,000.00	
360S-A	6 IN. CONCRETE PAVEMENT	550	SY	\$80.00	\$44,000.00	
403S-CY-A	CONCRETE FOR STRUCTURES: ABUTMENT (PEDESTRIAN BRIDGE)	8	CY	\$550.00	\$4,400.00	
420S-B-24	DRILLED SHAFT (24IN DIA, REINFORCING, 4,000 PSI CONCRETE)	96	LF	\$200.00	\$19,200.00	
604S-E	NATIVE SEEDING FOR EROSION CONTROL METHOD, FIBER MULCH	440	SY	\$1.00	\$440.00	
604S-I	TOP SOIL AND SEED BED PREPARATION	440	SY	\$5.00	\$2,200.00	
610S-E	TREE TRUNK PROTECTION, WOOD PLANKING	25	EA	\$570.00	\$14,250.00	
639S	ROCK BERM	300	LF	\$45.00	\$13,500.00	
641S	STABILIZED CONSTRUCTION ENTRANCE	2.0	EA	\$1,500.00	\$3,000.00	
642S	SILT FENCE FOR EROSION CONTROL	1,000	LF	\$5.00	\$5,000.00	
803S-MO	BARRICADES, SIGNS AND TRAFFIC HANDLING	12	MO	\$1,500.00	\$18,000.00	
824S	TRAFFIC SIGNS	10	EA	\$880.00	\$8,800.00	
829S-F	TYPE II BICYCLE LANE PREFERENTIAL (DIRECTIONAL ARROW) SYMBOLS, WHITE IN COLOR	4	EA	\$500.00	\$2,000.00	
871S-A-4YB	REFLECTORIZED TYPE I THERMOPLASTIC PAVEMENT MARKINGS 4 INCHES IN WIDTH, 90 MILS IN THICKNESS YELLOW IN COLOR (BROKEN)	400	LF	\$4.00	\$1,600.00	
871S-A-4YS	REFLECTORIZED TYPE I THERMOPLASTIC PAVEMENT MARKINGS 4 INCHES IN WIDTH, 90 MILS IN THICKNESS, YELLOW IN COLOR (SOLID)	400	LF	\$4.00	\$1,600.00	
	PEDESTRIAN BRIDGE (60 FT SPAN, STEEL FRAME, WOOD DECK)	1	LS	\$110,000.00	\$110,000.00	
SS490S-1	BOLLARDS	6	EA	\$850.00	\$5,100.00	
SS16651-TL	TRAIL LIGHT POLE WITH LIGHT	5	EA	\$2,500.00	\$12,500.00	
SS16651-TL-C	CONTROLS (TRAILS)	1.00	LS	\$8,000.00	\$8,000.00	
SS16651-TL-F	TRAIL LIGHT POLE FOUNDATION	5	1.00	\$1,200.00	\$6,000.00	
					\$0.00	
					\$0.00	
					\$0.00	
					\$0.00	
					\$0.00	
					\$0.00	
					\$0.00	
					\$0.00	
					\$0.00	
LINE ITEM TOTAL					\$344,444.83	
CONTINGENCY					40.00%	
CONSTRUCTION COST ESTIMATE					\$482,222.76	