

Appendix I: Capital Improvements Plan

Capital Improvements Plan Prioritization Criteria

Capital Improvements Plan

Capital Improvements Plan Project Map



City of San Marcos Transportation Master Plan Prioritization Criteria

No	Evaluation Criteria	Description	Measure	Score	Weight % to Subtotal	Weight % to Total	Weighted Score
1	Safety and Mobility	Traffic operations	Future (Year 2025) No Build Level of Service	F	100	25%	6.25
				D	80		5.00
				C	60		3.75
				B	40		2.50
				A	20		1.25
		Crash history	Crash Rate	>100 crashes / year	100	25%	6.25
				>50 crashes / year	80		5.00
				>25 crashes / year	60		3.75
				>0 crashes / year	40		2.50
				Does Not Exist	50		3.13
		Improved pedestrian crossings	Existing Quality	Poor	50	25%	3.13
				Fair	30		1.88
				Good	10		0.63
		Improved bicycle facility	Existing Quality	Does Not Exist	50	25%	3.13
				Poor	50		3.13
				Fair	30		1.88
				Good	10		0.63
2	Connectivity	Improved neighborhood connectivity	Proposed Plan	Yes	100	17%	7.50
				No	0		0.00
		Regional transportation facility	Proposed Plan	Yes	100	17%	7.50
				No	0		0.00
		Connectivity to activity centers	Proposed Plan	Yes	100	17%	7.50
				No	0		0.00
		Pedestrian environment (connectivity, safety, and quality)	Proposed pedestrian facility	Yes	50	17%	3.75
				No	0		0.00
		Bicycle environment (connectivity, safety, and quality)	Proposed protected bicycle facility	Yes	50	17%	3.75
				No	0		0.00
			Priority bike route	Yes	50	17%	3.75
				No	0		0.00
3	Environment	Increased roadway footprint	Roadway Width Increase	No increase	50	50%	3.75
				1 additional travel lane	40		3.00
				2 additional travel lanes	30		2.25
				3+ additional travel lanes	10		0.75
		Environmentally sensitive areas	Critical Zone or Area	None	100	50%	7.50
				Edwards Aquifer Contributing Zone	0		0.00
				Edwards Aquifer Recharge Zone	0		0.00
				Edwards Aquifer Transition Zone	0		0.00
4	Cost	Construction cost	Dollars	Critical Habitat	0	50%	0.00
				\$	100		7.50
				\$\$	80		6.00
				\$\$\$	60		4.50
				\$\$\$\$	40		3.00
		Right-of-way acquisition	Dollars	\$\$\$\$\$	20	20%	1.50
				\$	100		3.00
				\$\$	80		2.40
				\$\$\$	60		1.80
				\$\$\$\$	40		1.20
		Funding identified or available	On CAMPO plan	\$\$\$\$\$	20	20%	0.60
				Yes	100		3.00
				No	0		0.00
		Construction impacts	On a City plan	Yes	100	20%	3.00
				No	0		0.00
			Magnitude / Duration	Greenfield	100	10%	1.50
				Roadway Widening	0		0.00

Maximum Score =	85.50
Minimum Score =	7.85

Appendix I: Capital Improvements Plan

Capital Improvements Plan Project List

Priority 1											
Project Priority	Corridor	Project Limits	Type of Facility	Cross-Section	Cross-Section Option	Improvements Limits	Total Distance (Miles)	Total Construction Cost	Total ROW Cost	Total Cost	Segments
1	Hopkins Street	CM Allen Parkway to IH 35 Northbound Frontage Road	Enhanced	BV 115-71		CM Allen Pkwy to IH 35 NBFR	1.339	\$22,325,056.77	\$2,438,458.49	\$24,763,515.26	B-9
1	CM Allen/ Aquarena Springs (Loop 82)	IH 35 Southbound Frontage Road to River Road	Enhanced	CS 90-40		IH 35 SBFR to University Dr	3.653	\$45,674,419.12	\$43,903,442.50	\$89,577,861.62	S-12
			Enhanced	BV 115-71		University Dr to IH 35 NBFR					B-8
			Enhanced	AV 82-43		IH 35 NBFR to River Rd					A-10
1	SH 123	IH 35 Frontage Road to Wonder World	Enhanced	BV 110-50		IH 35 NBFR to Broadway St	1.633	\$25,996,089.57	\$0.00	\$25,996,089.57	B-27
1	Highway 80	IH 35 Frontage Road (NB) to Old Bastrop Highway	Enhanced	BV 115-71		Broadway St to Wonder World Dr	1.930	\$27,505,425.50	\$0.00	\$27,505,425.50	B-26.1
			Enhanced	BV 115-71		Old Bastrop Hwy to River Rd					B-11
			Enhanced	BV 125-72		River Rd to IH 35 NBFR					B-10
1	Highway 21 and Extension	McCarty to Old Bastrop Highway	Enhanced	BV 115-71		Old Bastrop Hwy to Highway 80	5.406	\$92,707,583.45	\$30,881,000.34	\$123,588,583.79	B-12
			New	BV 115-71		Highway 80 to Staples Rd					PB-14
			Enhanced	BV 115-71		Staples Rd to End of Crystal River Pkwy					B-31
			New	BV 115-71		End of Crystal River Pkwy to McCarty Ln					PB-17
1	McCarty Ln/FM 110	Hunter Rd/FM 2439 to FM 110 Extension	Enhanced	AV 100-50		Hunter Rd/FM 2439 to IH 35	3.474	\$59,600,470.02	\$6,508,595.77	\$66,109,065.79	A-5
			Enhanced	HW 150-72		IH 35 to SH 123					H-2
			Enhanced	HW 150-72		SH 123 to FM 110 Extension					H-2.1
1	Thorpe Lane	Hopkins to Aquarena Springs	Enhanced	AV 82-43		Hopkins St to Aquarena Springs Dr	0.681	\$7,613,001.28	\$5,995,473.87	\$13,608,475.15	A-9
1	Wonder World Drive	Hunter to SH 123	Enhanced	BV 115-71		Hunter Rd/FM 2439 to Stagecoach Trl	1.912	\$25,727,009.46	\$6,005,687.85	\$31,732,697.31	B-4.1
			Enhanced	BV 115-71		Stagecoach Trl to SH 123					B-29.1
			Enhanced	BV 115-71		Wonder World Dr to Bridge over Purgatory Creek					B-3.11
1	Hunter Rd/Hopkins Street	McCarty to Moore	Enhanced	AV 82-43		Bridge over Purgatory Creek to Dixon St	1.561	\$13,352,498.45	\$0.00	\$13,352,498.45	A-3
			Enhanced	RS 54-30		Dixon St to Moore St					S-28
Priority 2											
2	Craddock Avenue	Wonder World Dr to Old Ranch Road 12	Enhanced	BV 110-50		Wonder World Dr to Old Ranch Road 12	2.052	\$25,534,401.34	\$0.00	\$25,534,401.34	B-5
2	Post Road Connection to IH 35	Post Road to River Ridge Pkwy	New	BV 110-50		Post Rd to Iris St	1.119	\$17,822,951.60	\$12,283,798.48	\$30,106,750.08	PB-4.1
			Enhanced	BV 110-50		Beginning of Iris Street to End of Iris Street					B-20
			Enhanced	BV 110-50		End of Iris Street to End of River Ridge Pkwy					B-21
2	Sessom Drive	Holland to Aquarena Springs	Enhanced	AV 100-47		Aquarena Springs to LBJ Dr	1.390	\$16,045,286.29	\$1,915,635.85	\$17,960,922.14	A-1
			Enhanced	AV 82-43		LBJ Dr to Holland St					A-2
			Enhanced	RS 54-30		North St to Holland St					S-29
2	Old RR 12/Moore Street	Proposed Parkway Loop to North St	Enhanced	BV 110-50		Holland St to End of Old Ranch Road 12	2.868	35848096.476	24523355.998	\$60,371,452.47	B-6
			New	BV 110-50		End of Old Ranch Road 12 to Proposed Parkway Loop					PB-3
2	Cheatham Street	Hopkins to Guadalupe	Enhanced	CS 60-36	Buffered Bike Lane Option	Hopkins St/Highway 80 to Guadalupe St	1.287	\$7,101,475.40	\$985,533.73	\$8,087,009.13	S-11
2	Riverside Drive	Hopkins to IH 35 Frontage Road	Enhanced	RS 54-30		Hopkins to IH 35 SBFR	0.616	\$3,205,250.77	\$0.00	\$3,205,250.77	S-13
2	Bishop Street	Craddock to Hopkins	Enhanced	RS 54-30	Buffered Bike Lane Option	Craddock Ave to Hunter Rd/FM 2439	1.007	\$5,690,467.23	\$0.00	\$5,690,467.23	S-5
2	Charles Austin Drive	Aquarena Springs to Hopkins	Enhanced	RS 54-30		Aquarena Springs Dr to Hopkins St/Highway 80	0.341	\$2,907,793.63	\$0.00	\$2,907,793.63	S-10
2	Franklin Drive	Bishop to Old RR 12	Enhanced	RS 54-30		Bishop St to Old Ranch Road 12	0.762	\$3,835,765.49	\$0.00	\$3,835,765.49	S-6
2	Holland Street	Old RR 12 to LBJ	Enhanced	RS 54-30	Buffered Bike Lane Option	Old Ranch Road 12 to N LBJ Dr	0.772	\$4,538,721.38	\$0.00	\$4,538,721.38	S-7
2	Burleson Street	Bishop to North	Enhanced	RS 54-30		Bishop St to North St	1.014	\$4,777,481.63	\$5,339,482.36	\$10,116,963.99	S-9
2	LBJ Drive	Sessom to End	Enhanced	RS 54-30		W Sessom Dr to End of Street	1.301	\$7,131,582.53	\$0.00	\$7,131,582.53	S-8
2	Commanche Street	Sessom to Centre	Enhanced	RS 54-30	Buffered Bike Lane Option	W Sessom Dr to Centre St	0.857	\$5,991,324.23	\$4,524,399.54	\$10,515,723.78	S-30
2	Mitchell Street	Gravel St to MLK Dr	Enhanced	RS 54-30		Gravel St to MLK Dr	0.000	\$276,610.68	\$0.00	\$276,610.68	S-36
2	Gravel Street	Mitchell St to End of Street	Enhanced	CS 60-36	Buffered Bike Lane Option	Mitchell St to End of Street	0.245	\$1,446,459.46	\$1,722,836.04	\$3,169,295.50	S-32
2	MLK Drive	End of Street to S LBJ Dr	Enhanced	RS 54-30	Buffered Bike Lane Option	End of Street to S LBJ Dr	0.993	\$6,190,788.32	\$0.00	\$6,190,788.32	S-31
2	De Zavala Drive	Staples Rd to Hwy 123	Enhanced	CS 90-40		Staples Rd to Hwy 123	0.445	\$5,930,211.70	\$0.00	\$5,930,211.70	S-4-1Z

Priority 3 Projects										
Project Priority	Corridor	Project Limits	Type of Facility	Cross-Section	Improvements Limits	Total Distance (Miles)	Total Construction Cost	Total ROW Cost	Total Cost	Segments
3	SH 123	Wonder World Dr to City Limits	Enhanced	BV 115-71	Wonder World Dr to City Limits	2.298	\$32,619,510.33	\$0.00	\$32,619,510.33	B-26
3	Old Bastrop Highway	SH 123 to Mr. Pete	Enhanced	BV 115-71	SH 123 to Mr Pete Rd	2.987	\$44,487,260.98	\$5,368,706.77	\$49,855,967.75	B-23
3	Posey Road	Mr. Pete to Posey	Enhanced	BV 110-50	Mr Pete Rd to Posey Rd					B-24.1
3		Hunter to Old Bastrop	Enhanced	BV 110-50	Hunter Rd/FM 2439 to Old Bastrop Hwy	2.126	\$36,171,300.15	\$0.00	\$36,171,300.15	B-2
3	Midtown Intensity Zone	All Enhanced Streets within the Midtown Intensity Zone	Enhanced	CS 90-40	Thorpe Ln to IH 35 SBFR	0.717	9104443.862	12594779.250	\$21,699,223.11	S-1-IZ
			Enhanced	CS 90-40	River Rd to IH 35 NBFR					S-2-IZ
3	Midtown Intensity Zone	All Proposed Facilities within the Midtown Intensity Zone	New	CS 90-40	River Road to Proposed Avenue 3 (Midtown)	0.156	2558180.955	1156604.019	\$3,714,784.97	PS-25
			New	AV 100-50	River Road to Uhland Road					PA-3-IZ-CIP
3	Cotton Center	Within Cotton Center	Enhanced	AV 100-50	Between FM 1984 and Highway 21 to To Railroad	1.452	19460127.259	3074225.339	\$22,534,352.60	A-14.1
3	La Salle	Within La Salle	Enhanced	AV 100-50	North of Yarrington to End of Road					A-24
3	Rattler Road	McCarty to SH 123	Enhanced	AV 100-50	McCarty Ln/FM 110 to Old Bastrop Hwy	1.215	14993395.231	638830.175	\$15,632,225.41	S-4
			Enhanced	AV 100-50	Old Bastrop Hwy to SH 123					A-8
3	Stagecoach Trail	Summit Ridge to Wonder World Dr	Enhanced	RD 50-18	Snyder Hill to Summit Ridge	1.289	4287231.337	0.000	\$4,287,231.34	S-3
			Enhanced	AV 82-43	Synder Hill to Wonder World Dr					A-4
3	Proposed Loop and Yarrington	Blanco Vista to Highway 21	Enhanced	HW 150-72	Yarrington (Before Curve) to Blanco Vista					H-1
3	River Road	IH 35 Frontage Road to Proposed Avenue (Midtown IZ)	Enhanced	AV 100-50	IH 35 NBFR to Proposed Avenue (Midtown IZ)	1.825	20646709.976	33180392.154	\$53,827,102.13	S-34
			Enhanced	RS 54-30	Uhland Rd to River (Before Hwy 80)					A-11
3	River Road	IH 35 Frontage Road to Proposed Street 4	Enhanced	RS 54-30	IH 35 NBFR to W Uhland Rd/River Rd	1.606	10657863.280	5564812.909	\$16,222,676.19	S-18
			Enhanced	CS 90-40	River Rd (South of Railroad Bridge) to Proposed Street 4					S-22
			Enhanced	RS 60-30	Lime Kiln Rd to Proposed Parkway Loop					S-16
3	Lime Kiln Road and Hilliard Road	Lime Kiln: Post to Lovejoy Lane	Enhanced	RS 60-30	Country Road 227 to Lovejoy Lane	4.676	32174636.793	0.000	\$32,174,636.79	S-15
		Hilliard: Lime Kiln to Loop	Enhanced	RS 60-30	Post Rd to Windemere					S-14
			Enhanced	AV 100-50	Windmere to Country Road 227					A-21
3	Ranch Road 12	Old Ranch Road 12 to End	Enhanced	BV 110-50	Old Ranch Road 12 to End (Past City Limits)	4.067	53159501.539	0.000	\$53,159,501.54	B-7
3	Ranch Road 12/Wonder World Drive	Old Ranch Road 12 to Hunter	Enhanced	BV 110-50	Old Ranch Road 12 to Hunter	2.803	32264248.431	0.000	\$32,264,248.43	B-4
3	Hunter Rd	Wonder World to Posey	Enhanced	BV 115-71	McCarty Ln to Wonder World Dr	3.886	\$43,464,766.65	\$0.00	\$43,464,766.65	B-3.1
			Enhanced	BV 115-71	Posey Rd to McCarty Ln					B-3
3	Harris Hill and Extension	Highway 21 to River Ridge	Enhanced	BV 100-50	Highway 21 to Curve of Harris Hill Rd	1.061	\$13,114,116.17	\$2,245,860.01	\$15,359,976.18	B-25
3	Uhland Road	Aquarena Springs to Harris Hill	Enhanced	AV 100-50	Harris Hill Rd to Uhland/River					A-12
3	Centerpoint Road	Hunter to Old Bastrop Highway	Enhanced	BV 115-71	Hunter Rd/FM 2439 to Old Bastrop Hwy	2.106	37277822.572	4281390.843	\$41,559,213.41	B-22.1
3	Highway 21	Old Bastrop Highway to End	Enhanced	BV 110-50	Old Bastrop Hwy to End	6.464	91827173.544	0.000	\$91,827,173.54	B-13
			Enhanced	AV 100-50	Proposed Craddock Extension to North of Blanco River Ranch					A-22
3	Post Road/Old Stagecoach	Aquarena Springs to Blanco River Ranch	Enhanced	AV 100-50	South of Blanco Vista to End of Road	5.790	70046049.125	65497239.351	\$135,543,288.48	A-23
			Enhanced	BV 100-50	Aquarena Springs to Proposed Craddock Extension					B-19
3	Wonder World Drive	SH 123 to Loop 1	Enhanced	BV 115-71	FM 110 Extension to SH 123	1.417	\$19,506,850.69	\$2,534,190.16	\$22,041,040.85	B-29.2
3	Highway 80	Old Bastrop to End	Enhanced	BV 110-50	Old Bastrop Hwy to FM 1984					B-15.1
			Enhanced	BV 110-50	FM 1984 to End	5.809	\$78,135,058.79	\$806,093.59	\$78,941,152.38	B-15
3	SH 123	City Limits to End	Enhanced	BV 110-50	City Limits to End	5.682	\$74,631,271.85	\$0.00	\$74,631,271.85	B-28
			Enhanced	BV 115-71	Crystal River Pkwy to Broadway St					B-33
3	Staples/Redwood	SH 123 to FM 1979	Enhanced	BV 110-50	Broadway St to SH 123	2.787	42959153.016	20169009.508	\$63,128,162.52	B-32
			Enhanced	BV 110-50	Proposed Loop 1 to Crystal River Pkwy					B-34.1
3	Riverway Avenue and Extension to Highway 21	End of Riverway to Highway 21	Enhanced	AV 100-50	End of Riverway Ave to IH 35 SBFR	0.365	4985856.970	645005.493	\$5,630,862.46	A-25
3	William Petus and Extension	Proposed Loop to William Petus Ct	Enhanced	AV 100-50	Highway 21 to William Petus Court	1.433	19214143.015	3178353.220	\$22,392,496.23	A-14
3	De Zavala Drive	Staples to Hwy 123	Enhanced	CS 90-40	Staples Rd to Hwy 123	0.445	5930211.700	0.000	\$5,930,211.70	S-4-IZ

Appendix I: Capital Improvements Plan

Capital Improvements Plan Construction Cost Estimates

ESTIMATED CONSTRUCTION COST TEMPLATE

A-1

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Sessom Dr

PROJECT LIMITS:

Aquarena Springs to LBJ Dr

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (1 LANE)	
b. TYPICAL SECTION:	AV 100-47	
c. PROJECT LENGTH =	0.484	MILES
d. NOMINAL ROW WIDTH =	100	FEET
d. BRIDGE LENGTH =	0.000	FT
e. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
f. EXISTING PAVEMENT WIDTH =	42	FEET
g. NOMINAL PAVEMENT WIDENING =	58	FEET
h. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
i. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 2-3 LANES	
j. EDWARDS AQUIFER/WATER QUALITY ZONE?	Yes	
k. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
l. NUMBER OF SIGNALIZED INTERSECTIONS	3	
m. NUMBER OF MONTHS FOR CONSTRUCTION	12	
n. YEARS OF MAINTAINENCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	26	STA	\$ 2,326.71	\$ 60,494
b.	EXCAVATION	5,708	CY	\$ 16.34	\$ 93,247
c.	EMBANKMENT	2,854	CY	\$ 15.97	\$ 45,578
d.	HMAC PAVEMENT (ROADWAY)	16,460	SY	\$ 76.32	\$ 1,256,309
e.	MILL AND OVERLAY COST	11,920	SY	\$ 16.15	\$ 192,500
f.	DRAINAGE SYSTEMS	0.484	LS/MI	\$ 136,400.00	\$ 65,983
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ 27,280.00	\$ 13,197
h.	ILLUMINATION (ROADWAY)	-	LS/MI	\$ 360,000.00	\$ -
i.	ILLUMINATION (DECORATIVE)	1	LS/MI	\$ 219,000.00	\$ 211,881
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI		\$ 62,815.46
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%			\$ 50,004.43
l.	SIDEWALK/SHARED USE PATH	3,689	SY	\$ 54.99	\$ 202,890.52
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%			\$ 83,340.71
n.	CURB AND GUTTER	10,217	LF	\$ 16.30	\$ 166,515
o.	CYCLE TRACK PAVEMENT	3,973	SY	\$ 44.73	\$ 177,730
p.	SIGNALIZATION	3	EA	\$250,000	\$ 750,000
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	0	LS/MI	\$ 80,000.00	\$ 38,700
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 3,615,932
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 361,593.15
	ENGINEERING AND DESIGN	15%			\$ 542,389.73
	CONSTRUCTION CONTINGENCY	10%			\$ 361,593.15
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 433,911.78
SUBTOTAL					\$ 1,699,487.82
MASTER CONTINGENCY					30%
					\$ 1,594,625.80
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 6,910,045.15
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		28,380	SY	\$ 7.00	\$ 198,703.03
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 14,558,422.94
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 418,637.32

This estimate represents our engineering judgment as professionals knowledgeable with the construction of similar projects.
This estimate is for planning and programming purposes only and does not guarantee what actual construction costs will be.

ESTIMATED CONSTRUCTION COST TEMPLATE

A-2

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Sessom Dr

PROJECT LIMITS:

LBJ Dr to Holland St

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (1 LANE)	
b. TYPICAL SECTION:	AV 82-43	
c. PROJECT LENGTH =	0.906	MILES
d. NOMINAL ROW WIDTH =	82	FEET
e. BRIDGE LENGTH =	0.000	FT
f. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
g. EXISTING PAVEMENT WIDTH =	46	FEET
h. NOMINAL PAVEMENT WIDENING =	36	FEET
i. HMA PAVEMENT TYPE	URBAN ARTERIAL	
j. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 2-3 LANES	
k. EDWARDS AQUIFER/WATER QUALITY ZONE?	Yes	
l. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
m. NUMBER OF SIGNALIZED INTERSECTIONS	2	
n. NUMBER OF MONTHS FOR CONSTRUCTION	12	
o. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	48	STA	\$ 2,326.71	\$ 111,682
b.	EXCAVATION	10,693	CY	\$ 16.34	\$ 174,675
c.	EMBANKMENT	5,346	CY	\$ 15.97	\$ 85,380
d.	HMA PAVEMENT (ROADWAY)	19,139	SY	\$ 76.32	\$ 1,460,725
e.	MILL AND OVERLAY COST	24,455	SY	\$ 16.15	\$ 394,945
f.	DRAINAGE SYSTEMS	0.906	LS/MI	\$ 136,400.00	\$ 123,603
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ 27,280.00	\$ 24,721
h.	ILLUMINATION (ROADWAY)	-	LS/MI	\$ 360,000.00	\$ -
i.	ILLUMINATION (DECORATIVE)	2	LS/MI	\$ 219,000.00	\$ 396,908
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI		\$ 73,036.26
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%			\$ 67,921.49
l.	SIDEWALK/SHARED USE PATH	5,316	SY	\$ 54.99	\$ 292,358.58
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%			\$ 113,202.48
n.	CURB AND GUTTER	19,139	LF	\$ 16.30	\$ 311,925
o.	CYCLE TRACK PAVEMENT	7,443	SY	\$ 44.73	\$ 332,933
p.	SIGNALIZATION	2	EA	\$ 250,000	\$ 500,000
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	1	LS/MI	\$ 80,000.00	\$ 72,495
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	2,127	SY	\$ 46.60	\$ 99,088
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 4,780,346
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 478,034.60
	ENGINEERING AND DESIGN	15%			\$ 717,051.89
	CONSTRUCTION CONTINGENCY	10%			\$ 478,034.60
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 573,641.52
SUBTOTAL					\$ 2,246,762.60
MASTER CONTINGENCY					30%
					\$ 2,108,132.57
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 9,135,241.13
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		43,593	SY	\$ 7.00	\$ 305,221.96
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 19,246,575.25
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 643,056.63

This estimate represents our engineering judgment as professionals knowledgeable with the construction of similar projects.
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ESTIMATED CONSTRUCTION COST TEMPLATE

A-3

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Hunter Rd/FM 2439

PROJECT LIMITS:

Bridge over Purgatory Creek to Dixon St

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (1 LANE)	
b. TYPICAL SECTION:	AV 82-43	
c. PROJECT LENGTH =	0.364	MILES
d. NOMINAL ROW WIDTH =	82	FEET
e. BRIDGE LENGTH =	0.000	FT
f. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
g. EXISTING PAVEMENT WIDTH =	48	FEET
h. NOMINAL PAVEMENT WIDENING =	34	FEET
i. HMA PAVEMENT TYPE	URBAN ARTERIAL	
j. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 2-3 LANES	
k. EDWARDS AQUIFER/WATER QUALITY ZONE?	Yes	
l. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
m. NUMBER OF SIGNALIZED INTERSECTIONS	0	
n. NUMBER OF MONTHS FOR CONSTRUCTION	12	
o. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	20	STA	\$ 2,326.71	\$ 46,534
b.	EXCAVATION	4,294	CY	\$ 16.34	\$ 70,140
c.	EMBANKMENT	2,147	CY	\$ 15.97	\$ 34,284
d.	HMA PAVEMENT (ROADWAY)	7,258	SY	\$ 76.32	\$ 553,963
e.	MILL AND OVERLAY COST	10,247	SY	\$ 16.15	\$ 165,484
f.	DRAINAGE SYSTEMS	0.364	LS/MI	\$ 136,400.00	\$ 49,632
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ 27,280.00	\$ 9,926
h.	ILLUMINATION (ROADWAY)	-	LS/MI	\$ 360,000.00	\$ -
i.	ILLUMINATION (DECORATIVE)	1	LS/MI	\$ 219,000.00	\$ 159,377
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI		\$ 27,698.15
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%			\$ 26,502.91
l.	SIDEWALK/SHARED USE PATH	2,135	SY	\$ 54.99	\$ 117,395.55
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%			\$ 44,171.51
n.	CURB AND GUTTER	7,685	LF	\$ 16.30	\$ 125,252
o.	CYCLE TRACK PAVEMENT	2,989	SY	\$ 44.73	\$ 133,688
p.	SIGNALIZATION	-	EA	\$250,000	\$ -
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	0	LS/MI	\$ 80,000.00	\$ 29,110
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	854	SY	\$ 46.60	\$ 39,789
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 1,777,695
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 177,769.50
	ENGINEERING AND DESIGN	15%			\$ 266,654.26
	CONSTRUCTION CONTINGENCY	10%			\$ 177,769.50
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 213,323.41
SUBTOTAL					\$ 835,516.67
MASTER CONTINGENCY					30%
					\$ 783,963.52
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 3,397,175.24
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		17,505	SY	\$ 7.00	\$ 122,560.80
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					\$ 7,157,335.85
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 258,217.11

This estimate represents our engineering judgment as professionals knowledgeable with the construction of similar projects.
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ESTIMATED CONSTRUCTION COST TEMPLATE

A-4

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Stagecoach Trl

PROJECT LIMITS:

Synder Hill to Wonder World Dr

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (1 LANE)	
b. TYPICAL SECTION:	AV 82-43	
c. PROJECT LENGTH =	1.038	MILES
d. NOMINAL ROW WIDTH =	82	FEET
e. BRIDGE LENGTH =	0.000	FT
f. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
g. EXISTING PAVEMENT WIDTH =	38	FEET
h. NOMINAL PAVEMENT WIDENING =	44	FEET
i. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
j. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 2-3 LANES	
k. EDWARDS AQUIFER/WATER QUALITY ZONE?	Yes	
l. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
m. NUMBER OF SIGNALIZED INTERSECTIONS	2	
n. NUMBER OF MONTHS FOR CONSTRUCTION	12	
o. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	55	STA	\$ 2,326.71	\$ 127,969
b.	EXCAVATION	12,249	CY	\$ 16.34	\$ 200,096
c.	EMBANKMENT	6,125	CY	\$ 15.97	\$ 97,806
d.	HMAC PAVEMENT (ROADWAY)	26,796	SY	\$ 76.32	\$ 2,045,157
e.	MILL AND OVERLAY COST	23,142	SY	\$ 16.15	\$ 373,741
f.	DRAINAGE SYSTEMS	1.038	LS/MI	\$ 136,400.00	\$ 141,592
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ 27,280.00	\$ 28,318
h.	ILLUMINATION (ROADWAY)	-	LS/MI	\$ 360,000.00	\$ -
i.	ILLUMINATION (DECORATIVE)	2	LS/MI	\$ 219,000.00	\$ 454,671
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI		\$ 102,257.83
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%			\$ 86,601.29
l.	SIDEWALK/SHARED USE PATH	6,090	SY	\$ 54.99	\$ 334,906.61
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%			\$ 144,335.48
n.	CURB AND GUTTER	21,924	LF	\$ 16.30	\$ 357,321
o.	CYCLE TRACK PAVEMENT	8,526	SY	\$ 44.73	\$ 381,387
p.	SIGNALIZATION	2	EA	\$ 250,000	\$ 500,000
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	1	LS/MI	\$ 80,000.00	\$ 83,045
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	2,436	SY	\$ 46.60	\$ 113,509
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 5,717,459
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 571,745.85
	ENGINEERING AND DESIGN	15%			\$ 857,618.78
	CONSTRUCTION CONTINGENCY	10%			\$ 571,745.85
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 686,095.02
SUBTOTAL					\$ 2,687,205.50
MASTER CONTINGENCY					30%
					\$ 2,521,399.20
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 10,926,063.20
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		49,938	SY	\$ 7.00	\$ 349,642.05
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					\$ 23,019,567.26
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 736,643.06

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ESTIMATED CONSTRUCTION COST TEMPLATE

A-5

Transportation Master Plan
City of San Marcos

PROJECT NAME:

McCarty Ln

PROJECT LIMITS:

Hunter Rd/FM 2439 to IH 35

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (1 LANE)	
b. TYPICAL SECTION:	AV 100-50	
c. PROJECT LENGTH =	0.641	MILES
d. NOMINAL ROW WIDTH =	100	FEET
d. BRIDGE LENGTH =	500.000	FT
e. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
f. EXISTING PAVEMENT WIDTH =	44	FEET
g. NOMINAL PAVEMENT WIDENING =	56	FEET
h. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
i. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 2-3 LANES	
j. EDWARDS AQUIFER/WATER QUALITY ZONE?	Yes	
k. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
l. NUMBER OF SIGNALIZED INTERSECTIONS	2	
m. NUMBER OF MONTHS FOR CONSTRUCTION	12	
n. YEARS OF MAINTAINENCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	34	STA	\$ 2,326.71	\$ 79,108
b.	EXCAVATION	7,568	CY	\$ 16.34	\$ 123,626
c.	EMBANKMENT	3,784	CY	\$ 15.97	\$ 60,428
d.	HMAC PAVEMENT (ROADWAY)	17,959	SY	\$ 76.32	\$ 1,370,727
e.	MILL AND OVERLAY COST	14,111	SY	\$ 16.15	\$ 227,892
f.	DRAINAGE SYSTEMS	0.641	LS/MI	\$ 136,400.00	\$ 87,480
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ 27,280.00	\$ 17,496
h.	ILLUMINATION (ROADWAY)	-	LS/MI	\$ 360,000.00	\$ -
i.	ILLUMINATION (DECORATIVE)	1	LS/MI	\$ 219,000.00	\$ 280,912
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI		\$ 68,536.36
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%			\$ 56,629.49
l.	SIDEWALK/SHARED USE PATH	6,020	SY	\$ 54.99	\$ 331,067.17
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%			\$ 94,382.49
n.	CURB AND GUTTER	20,318	LF	\$ 16.30	\$ 331,148
o.	CYCLE TRACK PAVEMENT	5,268	SY	\$ 44.73	\$ 235,634
p.	SIGNALIZATION	2	EA	\$250,000	\$ 500,000
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	1	LS/MI	\$ 80,000.00	\$ 51,308
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	2,258	SY	\$ 46.60	\$ 105,195
w.	BRIDGE WIDENING	29000	SF	\$ 90.00	\$ 2,610,000.00
SUBTOTAL					\$ 6,776,316
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 677,631.60
	ENGINEERING AND DESIGN	15%			\$ 1,016,447.41
	CONSTRUCTION CONTINGENCY	10%			\$ 677,631.60
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 813,157.92
SUBTOTAL					\$ 3,184,868.54
MASTER CONTINGENCY					30%
					\$ 2,988,355.37
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 12,949,539.95
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		37,626	SY	\$ 7.00	\$ 263,440.30
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					\$ 27,282,727.58
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 555,028.98

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ESTIMATED CONSTRUCTION COST TEMPLATE

A-8

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Rattler Rd

PROJECT LIMITS:

Old Bastrop Hwy to SH 123

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (1 LANE)	
b. TYPICAL SECTION:	AV 100-50	
c. PROJECT LENGTH =	0.784	MILES
d. NOMINAL ROW WIDTH =	100	FEET
d. BRIDGE LENGTH =	0.000	FT
e. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
f. EXISTING PAVEMENT WIDTH =	46	FEET
g. NOMINAL PAVEMENT WIDENING =	54	FEET
h. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
i. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 2-3 LANES	
j. EDWARDS AQUIFER/WATER QUALITY ZONE?	No	
k. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
l. NUMBER OF SIGNALIZED INTERSECTIONS	1	
m. NUMBER OF MONTHS FOR CONSTRUCTION	12	
n. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	42	STA	\$ 2,326.71	\$ 97,722
b.	EXCAVATION	9,246	CY	\$ 16.34	\$ 151,038
c.	EMBANKMENT	4,623	CY	\$ 15.97	\$ 73,826
d.	HMAC PAVEMENT (ROADWAY)	24,823	SY	\$ 76.32	\$ 1,894,582
e.	MILL AND OVERLAY COST	21,146	SY	\$ 16.15	\$ 341,500
f.	DRAINAGE SYSTEMS	0.784	LS/MI	\$ 136,400.00	\$ 106,877
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ -	\$ -
h.	ILLUMINATION (ROADWAY)	-	LS/MI	\$ 360,000.00	\$ -
i.	ILLUMINATION (DECORATIVE)	2	LS/MI	\$ 219,000.00	\$ 343,197
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI	\$ -	\$ 94,729.09
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%		\$ -	\$ 77,034.66
l.	SIDEWALK/SHARED USE PATH	7,355	SY	\$ 54.99	\$ 404,472.88
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%		\$ -	\$ 128,391.11
n.	CURB AND GUTTER	24,823	LF	\$ 16.30	\$ 404,571
o.	CYCLE TRACK PAVEMENT	6,436	SY	\$ 44.73	\$ 287,880
p.	SIGNALIZATION	1	EA	\$ 250,000	\$ 250,000
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	1	LS/MI	\$ 80,000.00	\$ 62,684
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	2,758	SY	\$ 46.60	\$ 128,519
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 4,991,769
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 499,176.92
	ENGINEERING AND DESIGN	15%			\$ 748,765.38
	CONSTRUCTION CONTINGENCY	10%			\$ 499,176.92
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 599,012.30
SUBTOTAL					\$ 2,346,131.52
MASTER CONTINGENCY					30%
					\$ 2,201,370.21
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 9,539,270.93
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		45,968	SY	\$ 7.00	\$ 321,851.48
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 20,097,805.10
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 678,092.52

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ESTIMATED CONSTRUCTION COST TEMPLATE

A-9

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Thorpe Ln

PROJECT LIMITS:

Hopkins St to Aquarena Springs Dr

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (1 LANE)	
b. TYPICAL SECTION:	AV 82-43	
c. PROJECT LENGTH =	0.681	MILES
d. NOMINAL ROW WIDTH =	82	FEET
e. BRIDGE LENGTH =	0.000	FT
f. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
g. EXISTING PAVEMENT WIDTH =	46	FEET
h. NOMINAL PAVEMENT WIDENING =	36	FEET
i. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
j. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 2-3 LANES	
k. EDWARDS AQUIFER/WATER QUALITY ZONE?	No	
l. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
m. NUMBER OF SIGNALIZED INTERSECTIONS	3	
n. NUMBER OF MONTHS FOR CONSTRUCTION	12	
o. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	36	STA	\$ 2,326.71	\$ 83,761
b.	EXCAVATION	8,039	CY	\$ 16.34	\$ 131,328
c.	EMBANKMENT	4,020	CY	\$ 15.97	\$ 64,192
d.	HMAC PAVEMENT (ROADWAY)	14,389	SY	\$ 76.32	\$ 1,098,232
e.	MILL AND OVERLAY COST	18,386	SY	\$ 16.15	\$ 296,936
f.	DRAINAGE SYSTEMS	0.681	LS/MI	\$ 136,400.00	\$ 92,930
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ -	\$ -
h.	ILLUMINATION (ROADWAY)	-	LS/MI	\$ 360,000.00	\$ -
i.	ILLUMINATION (DECORATIVE)	1	LS/MI	\$ 219,000.00	\$ 298,411
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI		\$ 54,911.61
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%			\$ 50,508.54
l.	SIDEWALK/SHARED USE PATH	3,997	SY	\$ 54.99	\$ 219,806.98
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%			\$ 84,180.90
n.	CURB AND GUTTER	14,389	LF	\$ 16.30	\$ 234,518
o.	CYCLE TRACK PAVEMENT	5,596	SY	\$ 44.73	\$ 250,313
p.	SIGNALIZATION	3	EA	\$ 250,000	\$ 750,000
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	1	LS/MI	\$ 80,000.00	\$ 54,504
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	1,599	SY	\$ 46.60	\$ 74,499
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 3,983,779
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 398,377.88
	ENGINEERING AND DESIGN	15%			\$ 597,566.82
	CONSTRUCTION CONTINGENCY	10%			\$ 398,377.88
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 478,053.46
SUBTOTAL					\$ 1,872,376.03
MASTER CONTINGENCY					30%
					\$ 1,756,846.45
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 7,613,001.28
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		32,775	SY	\$ 7.00	\$ 229,478.19
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					\$ 16,039,445.46
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 483,475.94

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ESTIMATED CONSTRUCTION COST TEMPLATE

A-10

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Aquarena Springs Dr

PROJECT LIMITS:

IH 35 NBFR to River Rd

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (1 LANE)	
b. TYPICAL SECTION:	AV 82-43	
c. PROJECT LENGTH =	0.761	MILES
d. NOMINAL ROW WIDTH =	82	FEET
e. BRIDGE LENGTH =	0.000	FT
f. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
g. EXISTING PAVEMENT WIDTH =	42	FEET
h. NOMINAL PAVEMENT WIDENING =	40	FEET
i. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
j. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 2-3 LANES	
k. EDWARDS AQUIFER/WATER QUALITY ZONE?	No	
l. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
m. NUMBER OF SIGNALIZED INTERSECTIONS	1	
n. NUMBER OF MONTHS FOR CONSTRUCTION	12	
o. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	41	STA	\$ 2,326.71	\$ 95,395
b.	EXCAVATION	8,975	CY	\$ 16.34	\$ 146,619
c.	EMBANKMENT	4,488	CY	\$ 15.97	\$ 71,667
d.	HMAC PAVEMENT (ROADWAY)	17,849	SY	\$ 76.32	\$ 1,362,339
e.	MILL AND OVERLAY COST	18,742	SY	\$ 16.15	\$ 302,683
f.	DRAINAGE SYSTEMS	0.761	LS/MI	\$ 136,400.00	\$ 103,750
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ -	\$ -
h.	ILLUMINATION (ROADWAY)	-	LS/MI	\$ 360,000.00	\$ -
i.	ILLUMINATION (DECORATIVE)	2	LS/MI	\$ 219,000.00	\$ 333,157
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI	\$ -	\$ 68,116.96
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%		\$ -	\$ 59,611.73
l.	SIDEWALK/SHARED USE PATH	4,462	SY	\$ 54.99	\$ 245,400.30
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%		\$ -	\$ 99,352.89
n.	CURB AND GUTTER	16,065	LF	\$ 16.30	\$ 261,824
o.	CYCLE TRACK PAVEMENT	6,247	SY	\$ 44.73	\$ 279,458
p.	SIGNALIZATION	1	EA	\$ 250,000	\$ 250,000
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	1	LS/MI	\$ 80,000.00	\$ 60,851
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	1,785	SY	\$ 46.60	\$ 83,173
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 3,968,144
III. OTHER ITEMS					
	MOBILIZATION	10%		\$ -	\$ 396,814.35
	ENGINEERING AND DESIGN	15%		\$ -	\$ 595,221.53
	CONSTRUCTION CONTINGENCY	10%		\$ -	\$ 396,814.35
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%		\$ -	\$ 476,177.22
SUBTOTAL					\$ 1,865,027.46
MASTER CONTINGENCY					30%
					\$ 1,749,951.30
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 7,583,122.28
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		36,591	SY	\$ 7.00	\$ 256,197.58
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 15,976,494.93
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 539,769.66

This estimate represents our engineering judgment as professionals knowledgeable with the construction of similar projects.
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ESTIMATED CONSTRUCTION COST TEMPLATE

A-11

Transportation Master Plan
City of San Marcos

PROJECT NAME:

River Rd

PROJECT LIMITS:

Uhland Rd to River (Before Hwy 80)

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (1 LANE)	
b. TYPICAL SECTION:	RS 54-30	
c. PROJECT LENGTH =	0.903	MILES
d. NOMINAL ROW WIDTH =	54	FEET
e. BRIDGE LENGTH =	0.000	FT
f. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
g. EXISTING PAVEMENT WIDTH =	24	FEET
h. NOMINAL PAVEMENT WIDENING =	30	FEET
i. HMAC PAVEMENT TYPE	URBAN MINOR	
j. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 2-3 LANES	
k. EDWARDS AQUIFER/WATER QUALITY ZONE?	No	
l. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
m. NUMBER OF SIGNALIZED INTERSECTIONS	0	
n. NUMBER OF MONTHS FOR CONSTRUCTION	12	
o. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	48	STA	\$ 2,326.71	\$ 111,682
b.	EXCAVATION	10,660	CY	\$ 16.34	\$ 174,136
c.	EMBANKMENT	5,330	CY	\$ 15.97	\$ 85,117
d.	HMAC PAVEMENT (ROADWAY)	15,900	SY	\$ 54.08	\$ 859,889
e.	MILL AND OVERLAY COST	12,720	SY	\$ 16.15	\$ 205,423
f.	DRAINAGE SYSTEMS	0.903	LS/MI	\$ 136,400.00	\$ 123,222
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ -	\$ -
h.	ILLUMINATION (ROADWAY)	-	LS/MI	\$ 360,000.00	\$ -
i.	ILLUMINATION (DECORATIVE)	2	LS/MI	\$ 219,000.00	\$ 395,683
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI	\$ -	\$ 42,994.46
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%		\$ -	\$ 43,433.61
l.	SIDEWALK/SHARED USE PATH	4,240	SY	\$ 54.99	\$ 233,165.33
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%		\$ -	\$ 72,389.34
n.	CURB AND GUTTER	9,540	LF	\$ 16.30	\$ 155,481
o.	CYCLE TRACK PAVEMENT	-	SY	\$ 44.73	\$ -
p.	SIGNALIZATION	-	EA	\$ 250,000	\$ -
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	1	LS/MI	\$ 80,000.00	\$ 72,271
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 2,719,633
III. OTHER ITEMS					
	MOBILIZATION	10%		\$ -	\$ 271,963.35
	ENGINEERING AND DESIGN	15%		\$ -	\$ 407,945.02
	CONSTRUCTION CONTINGENCY	10%		\$ -	\$ 271,963.35
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%		\$ -	\$ 326,356.01
SUBTOTAL					\$ 1,278,227.72
MASTER CONTINGENCY					30%
					\$ 1,199,358.35
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 5,197,219.54
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		28,619	SY	\$ 7.00	\$ 200,379.75
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					\$ 10,949,757.70
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 422,169.91

This estimate represents our engineering judgment as professionals knowledgeable with the construction of similar projects.
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ESTIMATED CONSTRUCTION COST TEMPLATE

A-12

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Uhland Rd

PROJECT LIMITS:

Harris Hill Rd to Uhland/River

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (1 LANE)	
b. TYPICAL SECTION:	AV 100-50	
c. PROJECT LENGTH =	0.646	MILES
d. NOMINAL ROW WIDTH =	100	FEET
e. BRIDGE LENGTH =	0.000	FT
f. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
g. EXISTING PAVEMENT WIDTH =	22	FEET
h. NOMINAL PAVEMENT WIDENING =	78	FEET
i. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
j. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 2-3 LANES	
k. EDWARDS AQUIFER/WATER QUALITY ZONE?	No	
l. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
m. NUMBER OF SIGNALIZED INTERSECTIONS	0	
n. NUMBER OF MONTHS FOR CONSTRUCTION	12	
o. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	35	STA	\$ 2,326.71	\$ 81,435
b.	EXCAVATION	7,620	CY	\$ 16.34	\$ 124,472
c.	EMBANKMENT	3,810	CY	\$ 15.97	\$ 60,841
d.	HMAC PAVEMENT (ROADWAY)	29,549	SY	\$ 76.32	\$ 2,255,283
e.	MILL AND OVERLAY COST	8,334	SY	\$ 16.15	\$ 134,599
f.	DRAINAGE SYSTEMS	0.646	LS/MI	\$ 136,400.00	\$ 88,079
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ -	\$ -
h.	ILLUMINATION (ROADWAY)	-	LS/MI	\$ 360,000.00	\$ -
i.	ILLUMINATION (DECORATIVE)	1	LS/MI	\$ 219,000.00	\$ 282,833
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI	\$ -	\$ 112,764.13
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%		\$ -	\$ 79,898.20
l.	SIDEWALK/SHARED USE PATH	6,061	SY	\$ 54.99	\$ 333,331.35
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%		\$ -	\$ 133,163.66
n.	CURB AND GUTTER	20,457	LF	\$ 16.30	\$ 333,413
o.	CYCLE TRACK PAVEMENT	5,304	SY	\$ 44.73	\$ 237,245
p.	SIGNALIZATION	-	EA	\$ 250,000	\$ -
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	1	LS/MI	\$ 80,000.00	\$ 51,659
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	2,273	SY	\$ 46.60	\$ 105,914
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 4,559,676
III. OTHER ITEMS					
	MOBILIZATION	10%		\$ -	\$ 455,967.58
	ENGINEERING AND DESIGN	15%		\$ -	\$ 683,951.37
	CONSTRUCTION CONTINGENCY	10%		\$ -	\$ 455,967.58
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%		\$ -	\$ 547,161.09
SUBTOTAL					\$ 2,143,047.62
MASTER CONTINGENCY					30%
					\$ 2,010,817.02
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 8,713,540.44
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		37,883	SY	\$ 7.00	\$ 265,241.98
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 18,358,115.49
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 558,824.85

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ESTIMATED CONSTRUCTION COST TEMPLATE

A-14

Transportation Master Plan
City of San Marcos

PROJECT NAME:

William Petus Rd

PROJECT LIMITS:

Highway 21 to William Petus Court

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (1 LANE)	
b. TYPICAL SECTION:	AV 100-50	
c. PROJECT LENGTH =	1.433	MILES
d. NOMINAL ROW WIDTH =	100	FEET
e. BRIDGE LENGTH =	0.000	FT
f. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
g. EXISTING PAVEMENT WIDTH =	20	FEET
h. NOMINAL PAVEMENT WIDENING =	80	FEET
i. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
j. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 2-3 LANES	
k. EDWARDS AQUIFER/WATER QUALITY ZONE?	No	
l. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
m. NUMBER OF SIGNALIZED INTERSECTIONS	0	
n. NUMBER OF MONTHS FOR CONSTRUCTION	12	
o. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	76	STA	\$ 2,326.71	\$ 176,830
b.	EXCAVATION	16,910	CY	\$ 16.34	\$ 276,238
c.	EMBANKMENT	8,455	CY	\$ 15.97	\$ 135,023
d.	HMAC PAVEMENT (ROADWAY)	67,259	SY	\$ 76.32	\$ 5,133,435
e.	MILL AND OVERLAY COST	16,815	SY	\$ 16.15	\$ 271,557
f.	DRAINAGE SYSTEMS	1.433	LS/MI	\$ 136,400.00	\$ 195,471
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ -	\$ -
h.	ILLUMINATION (ROADWAY)	-	LS/MI	\$ 360,000.00	\$ -
i.	ILLUMINATION (DECORATIVE)	3	LS/MI	\$ 219,000.00	\$ 627,684
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI	\$ -	\$ 256,671.74
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%		\$ -	\$ 180,351.72
l.	SIDEWALK/SHARED USE PATH	13,452	SY	\$ 54.99	\$ 739,754.94
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%		\$ -	\$ 300,586.19
n.	CURB AND GUTTER	45,400	LF	\$ 16.30	\$ 739,935
o.	CYCLE TRACK PAVEMENT	11,770	SY	\$ 44.73	\$ 526,514
p.	SIGNALIZATION	-	EA	\$ 250,000	\$ -
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	1	LS/MI	\$ 80,000.00	\$ 114,646
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	5,044	SY	\$ 46.60	\$ 235,053
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 10,054,497
III. OTHER ITEMS					
	MOBILIZATION	10%		\$ -	\$ 1,005,449.66
	ENGINEERING AND DESIGN	15%		\$ -	\$ 1,508,174.49
	CONSTRUCTION CONTINGENCY	10%		\$ -	\$ 1,005,449.66
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%		\$ -	\$ 1,206,539.59
SUBTOTAL					\$ 4,725,613.40
MASTER CONTINGENCY					30%
					\$ 4,434,033.00
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 19,214,143.01
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		84,073	SY	\$ 7.00	\$ 588,645.70
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 40,481,301.38
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 1,240,187.70

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ESTIMATED CONSTRUCTION COST TEMPLATE

A-14.1

Transportation Master Plan
City of San Marcos

PROJECT NAME:

William Petus/Valley Way

PROJECT LIMITS:

Between FM 1984 and Highway 21 to To

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (1 LANE)	
b. TYPICAL SECTION:	AV 100-50	
c. PROJECT LENGTH =	1.452	MILES
d. NOMINAL ROW WIDTH =	100	FEET
d. BRIDGE LENGTH =	0.000	FT
e. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
f. EXISTING PAVEMENT WIDTH =	20	FEET
g. NOMINAL PAVEMENT WIDENING =	80	FEET
h. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
i. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 2-3 LANES	
j. EDWARDS AQUIFER/WATER QUALITY ZONE?	No	
k. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
l. NUMBER OF SIGNALIZED INTERSECTIONS	0	
m. NUMBER OF MONTHS FOR CONSTRUCTION	12	
n. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	77	STA	\$ 2,326.71	\$ 179,156
b.	EXCAVATION	17,130	CY	\$ 16.34	\$ 279,825
c.	EMBANKMENT	8,565	CY	\$ 15.97	\$ 136,777
d.	HMAC PAVEMENT (ROADWAY)	68,132	SY	\$ 76.32	\$ 5,200,098
e.	MILL AND OVERLAY COST	17,033	SY	\$ 16.15	\$ 275,084
f.	DRAINAGE SYSTEMS	1.452	LS/MI	\$ 136,400.00	\$ 198,009
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ -	\$ -
h.	ILLUMINATION (ROADWAY)	-	LS/MI	\$ 360,000.00	\$ -
i.	ILLUMINATION (DECORATIVE)	3	LS/MI	\$ 219,000.00	\$ 635,836
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI		\$ 260,004.92
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%			\$ 182,693.80
l.	SIDEWALK/SHARED USE PATH	13,626	SY	\$ 54.99	\$ 749,361.53
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%			\$ 304,489.66
n.	CURB AND GUTTER	45,989	LF	\$ 16.30	\$ 749,544
o.	CYCLE TRACK PAVEMENT	11,923	SY	\$ 44.73	\$ 533,351
p.	SIGNALIZATION	-	EA	\$ 250,000	\$ -
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	1	LS/MI	\$ 80,000.00	\$ 116,134
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	5,110	SY	\$ 46.60	\$ 238,106
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 10,183,217
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 1,018,321.68
	ENGINEERING AND DESIGN	15%			\$ 1,527,482.52
	CONSTRUCTION CONTINGENCY	10%			\$ 1,018,321.68
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 1,221,986.01
SUBTOTAL					\$ 4,786,111.88
MASTER CONTINGENCY					30%
					\$ 4,490,798.60
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 19,460,127.26
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		85,165	SY	\$ 7.00	\$ 596,289.95
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 40,999,553.08
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 1,256,293.00

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ESTIMATED CONSTRUCTION COST TEMPLATE

A-21

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Lime Kiln Rd

PROJECT LIMITS:

Windmere to Country Road 227

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (1 LANE)	
b. TYPICAL SECTION:	AV 100-50	
c. PROJECT LENGTH =	0.827	MILES
d. NOMINAL ROW WIDTH =	100	FEET
d. BRIDGE LENGTH =	0.000	FT
e. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
f. EXISTING PAVEMENT WIDTH =	36	FEET
g. NOMINAL PAVEMENT WIDENING =	64	FEET
h. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
i. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 2-3 LANES	
j. EDWARDS AQUIFER/WATER QUALITY ZONE?	Yes	
k. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
l. NUMBER OF SIGNALIZED INTERSECTIONS	0	
m. NUMBER OF MONTHS FOR CONSTRUCTION	12	
n. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	44	STA	\$ 2,326.71	\$ 102,375
b.	EXCAVATION	9,760	CY	\$ 16.34	\$ 159,437
c.	EMBANKMENT	4,880	CY	\$ 15.97	\$ 77,932
d.	HMAC PAVEMENT (ROADWAY)	31,056	SY	\$ 76.32	\$ 2,370,304
e.	MILL AND OVERLAY COST	17,469	SY	\$ 16.15	\$ 282,124
f.	DRAINAGE SYSTEMS	0.827	LS/MI	\$ 136,400.00	\$ 112,820
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ 27,280.00	\$ 22,564
h.	ILLUMINATION (ROADWAY)	-	LS/MI	\$ 360,000.00	\$ -
i.	ILLUMINATION (DECORATIVE)	2	LS/MI	\$ 219,000.00	\$ 362,283
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI		\$ 118,515.20
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%			\$ 90,755.44
l.	SIDEWALK/SHARED USE PATH	7,764	SY	\$ 54.99	\$ 426,966.59
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%			\$ 151,259.06
n.	CURB AND GUTTER	26,203	LF	\$ 16.30	\$ 427,071
o.	CYCLE TRACK PAVEMENT	6,793	SY	\$ 44.73	\$ 303,889
p.	SIGNALIZATION	-	EA	\$250,000	\$ -
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	1	LS/MI	\$ 80,000.00	\$ 66,170
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	2,911	SY	\$ 46.60	\$ 135,666
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 5,354,878
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 535,487.84
	ENGINEERING AND DESIGN	15%			\$ 803,231.76
	CONSTRUCTION CONTINGENCY	10%			\$ 535,487.84
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 642,585.41
SUBTOTAL					\$ 2,516,792.85
MASTER CONTINGENCY					30%
					\$ 2,361,501.38
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 10,233,172.64
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		48,525	SY	\$ 7.00	\$ 339,750.41
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					\$ 21,559,751.34
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 715,802.88

This estimate represents our engineering judgment as professionals knowledgeable with the construction of similar projects.
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ESTIMATED CONSTRUCTION COST TEMPLATE

A-22

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Post Rd

PROJECT LIMITS:

Proposed Craddock Extension to North of
Blanco River Ranch

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (1 LANE)	
b. TYPICAL SECTION:	AV 100-50	
c. PROJECT LENGTH =	1.846	MILES
d. NOMINAL ROW WIDTH =	100	FEET
d. BRIDGE LENGTH =	0.000	FT
e. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
f. EXISTING PAVEMENT WIDTH =	24	FEET
g. NOMINAL PAVEMENT WIDENING =	76	FEET
h. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
i. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 2-3 LANES	
j. EDWARDS AQUIFER/WATER QUALITY ZONE?	Yes	
k. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
l. NUMBER OF SIGNALIZED INTERSECTIONS	0	
m. NUMBER OF MONTHS FOR CONSTRUCTION	12	
n. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	98	STA	\$ 2,326.71	\$ 228,017
b.	EXCAVATION	21,777	CY	\$ 16.34	\$ 355,745
c.	EMBANKMENT	10,889	CY	\$ 15.97	\$ 173,886
d.	HMAC PAVEMENT (ROADWAY)	82,286	SY	\$ 76.32	\$ 6,280,405
e.	MILL AND OVERLAY COST	25,985	SY	\$ 16.15	\$ 419,661
f.	DRAINAGE SYSTEMS	1.846	LS/MI	\$ 136,400.00	\$ 251,732
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ 27,280.00	\$ 50,346
h.	ILLUMINATION (ROADWAY)	-	LS/MI	\$ 360,000.00	\$ -
i.	ILLUMINATION (DECORATIVE)	4	LS/MI	\$ 219,000.00	\$ 808,346
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI		\$ 314,020.25
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%			\$ 225,953.26
l.	SIDEWALK/SHARED USE PATH	17,323	SY	\$ 54.99	\$ 952,673.02
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%			\$ 376,588.76
n.	CURB AND GUTTER	58,467	LF	\$ 16.30	\$ 952,905
o.	CYCLE TRACK PAVEMENT	15,158	SY	\$ 44.73	\$ 678,056
p.	SIGNALIZATION	-	EA	\$250,000	\$ -
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	2	LS/MI	\$ 80,000.00	\$ 147,643
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	6,496	SY	\$ 46.60	\$ 302,707
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 12,663,431
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 1,266,343.13
	ENGINEERING AND DESIGN	15%			\$ 1,899,514.70
	CONSTRUCTION CONTINGENCY	10%			\$ 1,266,343.13
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 1,519,611.76
SUBTOTAL					\$ 5,951,812.73
MASTER CONTINGENCY					30%
					\$ 5,584,573.22
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 24,199,817.30
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		108,272	SY	\$ 7.00	\$ 758,071.15
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 50,985,365.13
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 1,597,141.57

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ESTIMATED CONSTRUCTION COST TEMPLATE

A-23

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Old Stagecoach

PROJECT LIMITS:

South of Blanco Vista to End of Road

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a.	PROJECT TYPE:	URBAN WIDENING (1 LANE)	
b.	TYPICAL SECTION:	AV 100-50	
c.	PROJECT LENGTH =	2.103	MILES
d.	NOMINAL ROW WIDTH =	100	FEET
d.	BRIDGE LENGTH =	0.000	FT
e.	TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
f.	EXISTING PAVEMENT WIDTH =	36	FEET
g.	NOMINAL PAVEMENT WIDENING =	64	FEET
h.	HMAC PAVEMENT TYPE	URBAN ARTERIAL	
i.	ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 2-3 LANES	
j.	EDWARDS AQUIFER/WATER QUALITY ZONE?	Yes	
k.	CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
l.	NUMBER OF SIGNALIZED INTERSECTIONS	0	
m.	NUMBER OF MONTHS FOR CONSTRUCTION	12	
n.	YEARS OF MAINTAINENCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	112	STA	\$ 2,326.71	\$ 260,591
b.	EXCAVATION	24,820	CY	\$ 16.34	\$ 405,451
c.	EMBANKMENT	12,410	CY	\$ 15.97	\$ 198,182
d.	HMAC PAVEMENT (ROADWAY)	78,976	SY	\$ 76.32	\$ 6,027,721
e.	MILL AND OVERLAY COST	44,424	SY	\$ 16.15	\$ 717,445
f.	DRAINAGE SYSTEMS	2.103	LS/MI	\$ 136,400.00	\$ 286,904
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ 27,280.00	\$ 57,381
h.	ILLUMINATION (ROADWAY)	-	LS/MI	\$ 360,000.00	\$ -
i.	ILLUMINATION (DECORATIVE)	4	LS/MI	\$ 219,000.00	\$ 921,290
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI		\$ 301,386.06
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%			\$ 230,792.54
l.	SIDEWALK/SHARED USE PATH	19,744	SY	\$ 54.99	\$ 1,085,782.91
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%			\$ 384,654.23
n.	CURB AND GUTTER	66,636	LF	\$ 16.30	\$ 1,086,047
o.	CYCLE TRACK PAVEMENT	17,276	SY	\$ 44.73	\$ 772,796
p.	SIGNALIZATION	-	EA	\$250,000	\$ -
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	2	LS/MI	\$ 80,000.00	\$ 168,272
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	7,404	SY	\$ 46.60	\$ 345,002
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 13,394,445
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 1,339,444.53
	ENGINEERING AND DESIGN	15%			\$ 2,009,166.79
	CONSTRUCTION CONTINGENCY	10%			\$ 1,339,444.53
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 1,607,333.43
SUBTOTAL					\$ 6,295,389.28
MASTER CONTINGENCY					30%
					\$ 5,906,950.36
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 25,596,784.91
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		123,400	SY	\$ 7.00	\$ 863,990.76
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					\$ 53,928,565.19
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 1,820,298.23

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ESTIMATED CONSTRUCTION COST TEMPLATE

A-24

Transportation Master Plan
City of San Marcos

PROJECT NAME:

CR 158

PROJECT LIMITS:

North of Yarrington to End of Road

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (1 LANE)	
b. TYPICAL SECTION:	AV 100-50	
c. PROJECT LENGTH =	0.828	MILES
d. NOMINAL ROW WIDTH =	100	FEET
d. BRIDGE LENGTH =	0.000	FT
e. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
f. EXISTING PAVEMENT WIDTH =	22	FEET
g. NOMINAL PAVEMENT WIDENING =	78	FEET
h. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
i. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 2-3 LANES	
j. EDWARDS AQUIFER/WATER QUALITY ZONE?	No	
k. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
l. NUMBER OF SIGNALIZED INTERSECTIONS	0	
m. NUMBER OF MONTHS FOR CONSTRUCTION	12	
n. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	44	STA	\$ 2,326.71	\$ 102,375
b.	EXCAVATION	9,773	CY	\$ 16.34	\$ 159,645
c.	EMBANKMENT	4,886	CY	\$ 15.97	\$ 78,034
d.	HMAC PAVEMENT (ROADWAY)	37,899	SY	\$ 76.32	\$ 2,892,580
e.	MILL AND OVERLAY COST	10,689	SY	\$ 16.15	\$ 172,634
f.	DRAINAGE SYSTEMS	0.828	LS/MI	\$ 136,400.00	\$ 112,968
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ -	\$ -
h.	ILLUMINATION (ROADWAY)	-	LS/MI	\$ 360,000.00	\$ -
i.	ILLUMINATION (DECORATIVE)	2	LS/MI	\$ 219,000.00	\$ 362,756
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI		\$ 144,629.00
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%			\$ 102,475.82
l.	SIDEWALK/SHARED USE PATH	7,774	SY	\$ 54.99	\$ 427,524.10
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%			\$ 170,793.04
n.	CURB AND GUTTER	26,238	LF	\$ 16.30	\$ 427,628
o.	CYCLE TRACK PAVEMENT	6,802	SY	\$ 44.73	\$ 304,286
p.	SIGNALIZATION	-	EA	\$250,000	\$ -
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	1	LS/MI	\$ 80,000.00	\$ 66,257
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	2,915	SY	\$ 46.60	\$ 135,844
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 5,805,175
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 580,517.47
	ENGINEERING AND DESIGN	15%			\$ 870,776.20
	CONSTRUCTION CONTINGENCY	10%			\$ 580,517.47
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 696,620.96
SUBTOTAL					\$ 2,728,432.10
MASTER CONTINGENCY					30%
					\$ 2,560,082.04
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 11,093,688.82
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		48,588	SY	\$ 7.00	\$ 340,194.04
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					\$ 23,372,729.16
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 716,737.54

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ESTIMATED CONSTRUCTION COST TEMPLATE

A-25

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Riverway Ave

PROJECT LIMITS:

End of Riverway Ave to IH 35 SBFR

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a.	PROJECT TYPE:	URBAN WIDENING (1 LANE)	
b.	TYPICAL SECTION:	AV 100-50	
c.	PROJECT LENGTH =	0.365	MILES
d.	NOMINAL ROW WIDTH =	100	FEET
d.	BRIDGE LENGTH =	0.000	FT
e.	TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
f.	EXISTING PAVEMENT WIDTH =	24	FEET
g.	NOMINAL PAVEMENT WIDENING =	76	FEET
h.	HMAC PAVEMENT TYPE	URBAN ARTERIAL	
i.	ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 2-3 LANES	
j.	EDWARDS AQUIFER/WATER QUALITY ZONE?	No	
k.	CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
l.	NUMBER OF SIGNALIZED INTERSECTIONS	0	
m.	NUMBER OF MONTHS FOR CONSTRUCTION	12	
n.	YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	20	STA	\$ 2,326.71	\$ 46,534
b.	EXCAVATION	4,303	CY	\$ 16.34	\$ 70,291
c.	EMBANKMENT	2,151	CY	\$ 15.97	\$ 34,358
d.	HMAC PAVEMENT (ROADWAY)	16,259	SY	\$ 76.32	\$ 1,240,935
e.	MILL AND OVERLAY COST	5,134	SY	\$ 16.15	\$ 82,920
f.	DRAINAGE SYSTEMS	0.365	LS/MI	\$ 136,400.00	\$ 49,739
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ -	\$ -
h.	ILLUMINATION (ROADWAY)	-	LS/MI	\$ 360,000.00	\$ -
i.	ILLUMINATION (DECORATIVE)	1	LS/MI	\$ 219,000.00	\$ 159,720
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI		\$ 62,046.76
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%			\$ 44,347.31
l.	SIDEWALK/SHARED USE PATH	3,423	SY	\$ 54.99	\$ 188,237.14
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%			\$ 73,912.18
n.	CURB AND GUTTER	11,552	LF	\$ 16.30	\$ 188,283
o.	CYCLE TRACK PAVEMENT	2,995	SY	\$ 44.73	\$ 133,976
p.	SIGNALIZATION	-	EA	\$250,000	\$ -
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	0	LS/MI	\$ 80,000.00	\$ 29,173
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	1,284	SY	\$ 46.60	\$ 59,811
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 2,609,030
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 260,903.03
	ENGINEERING AND DESIGN	15%			\$ 391,354.55
	CONSTRUCTION CONTINGENCY	10%			\$ 260,903.03
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 313,083.64
SUBTOTAL					\$ 1,226,244.26
MASTER CONTINGENCY					30%
					\$ 1,150,582.38
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 4,985,856.97
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		21,393	SY	\$ 7.00	\$ 149,786.06
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 10,504,448.65
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 315,576.64

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ESTIMATED CONSTRUCTION COST TEMPLATE

B-2

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Posey Rd

PROJECT LIMITS:

Hunter Rd/FM 2439 to Old Bastrop Hwy

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (2 LANE)	
b. TYPICAL SECTION:	BV 110-50	
c. PROJECT LENGTH =	2.126	MILES
d. NOMINAL ROW WIDTH =	110	FEET
d. BRIDGE LENGTH =	500.000	FT
e. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
f. EXISTING PAVEMENT WIDTH =	34	FEET
g. NOMINAL PAVEMENT WIDENING =	76	FEET
h. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
i. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 4-5 LANES	
j. EDWARDS AQUIFER/WATER QUALITY ZONE?	Yes	
k. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
l. NUMBER OF SIGNALIZED INTERSECTIONS	0	
m. NUMBER OF MONTHS FOR CONSTRUCTION	12	
n. YEARS OF MAINTAINENCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	113	STA	\$ 2,326.71	\$ 262,918
b.	EXCAVATION	35,080	CY	\$ 16.34	\$ 573,053
c.	EMBANKMENT	17,646	CY	\$ 15.97	\$ 281,803
d.	HMAC PAVEMENT (ROADWAY)	90,572	SY	\$ 76.32	\$ 6,912,793
e.	MILL AND OVERLAY COST	40,519	SY	\$ 16.15	\$ 654,383
f.	DRAINAGE SYSTEMS	2.126	LS/MI	\$ 180,400.00	\$ 383,543
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ 36,080.00	\$ 76,709
h.	ILLUMINATION (ROADWAY)	2	LS/MI	\$ 360,000.00	\$ 765,384
i.	ILLUMINATION (DECORATIVE)	4	LS/MI	\$ 219,000.00	\$ 931,218
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI		\$ 345,639.64
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%			\$ 266,468.49
l.	SIDEWALK/SHARED USE PATH	17,462	SY	\$ 54.99	\$ 960,297.32
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%			\$ 444,114.14
n.	CURB AND GUTTER	89,805	LF	\$ 16.30	\$ 1,463,667
o.	CYCLE TRACK PAVEMENT	17,462	SY	\$ 44.73	\$ 781,123
p.	SIGNALIZATION	-	EA	\$250,000	\$ -
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	2	LS/MI	\$ 80,000.00	\$ 170,085
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	39000	SF	\$ 90.00	\$ 3,510,000.00
SUBTOTAL					\$ 18,927,944
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 1,892,794.36
	ENGINEERING AND DESIGN	15%			\$ 2,839,191.53
	CONSTRUCTION CONTINGENCY	10%			\$ 1,892,794.36
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 2,271,353.23
SUBTOTAL					\$ 8,896,133.47
MASTER CONTINGENCY					30%
					\$ 8,347,223.11
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 36,171,300.15
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		137,202	SY	\$ 7.00	\$ 960,630.67
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 76,207,473.91
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 2,023,903.95

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ESTIMATED CONSTRUCTION COST TEMPLATE

B-3

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Hunter Rd/FM 2439

PROJECT LIMITS:

Posey Rd to McCarty Ln

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (2 LANE)	
b. TYPICAL SECTION:	BV 115-71	
c. PROJECT LENGTH =	2.203	MILES
d. NOMINAL ROW WIDTH =	115	FEET
d. BRIDGE LENGTH =	50.000	FT
e. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
f. EXISTING PAVEMENT WIDTH =	80	FEET
g. NOMINAL PAVEMENT WIDENING =	35	FEET
h. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
i. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 4-5 LANES	
j. EDWARDS AQUIFER/WATER QUALITY ZONE?	Yes	
k. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
l. NUMBER OF SIGNALIZED INTERSECTIONS	1	
m. NUMBER OF MONTHS FOR CONSTRUCTION	12	
n. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	117	STA	\$ 2,326.71	\$ 272,225
b.	EXCAVATION	36,351	CY	\$ 16.34	\$ 593,809
c.	EMBANKMENT	18,286	CY	\$ 15.97	\$ 292,010
d.	HMAC PAVEMENT (ROADWAY)	45,042	SY	\$ 76.32	\$ 3,437,772
e.	MILL AND OVERLAY COST	102,953	SY	\$ 16.15	\$ 1,662,693
f.	DRAINAGE SYSTEMS	2.203	LS/MI	\$ 180,400.00	\$ 397,435
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ 36,080.00	\$ 79,487
h.	ILLUMINATION (ROADWAY)	2	LS/MI	\$ 360,000.00	\$ 793,107
i.	ILLUMINATION (DECORATIVE)	4	LS/MI	\$ 219,000.00	\$ 964,946
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI		\$ 171,888.62
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%			\$ 193,896.19
l.	SIDEWALK/SHARED USE PATH	18,095	SY	\$ 54.99	\$ 995,079.40
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%			\$ 323,160.31
n.	CURB AND GUTTER	46,529	LF	\$ 16.30	\$ 758,340
o.	CYCLE TRACK PAVEMENT	20,680	SY	\$ 44.73	\$ 925,046
p.	SIGNALIZATION	1	EA	\$250,000	\$ 250,000
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	2	LS/MI	\$ 80,000.00	\$ 176,246
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	1850	SF	\$ 90.00	\$ 166,500.00
SUBTOTAL					\$ 12,598,387
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 1,259,838.71
	ENGINEERING AND DESIGN	15%			\$ 1,889,758.07
	CONSTRUCTION CONTINGENCY	10%			\$ 1,259,838.71
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 1,511,806.46
SUBTOTAL					\$ 5,921,241.96
MASTER CONTINGENCY					30%
					\$ 5,555,888.73
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 24,075,517.84
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		148,634	SY	\$ 7.00	\$ 1,040,671.41
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					\$ 50,723,484.92
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 2,192,537.71

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ESTIMATED CONSTRUCTION COST TEMPLATE

B-3.1

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Hunter Rd/FM 2439

PROJECT LIMITS:

McCarty Ln to Wonder World Dr

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (1 LANE)	
b. TYPICAL SECTION:	BV 115-71	
c. PROJECT LENGTH =	1.682	MILES
d. NOMINAL ROW WIDTH =	115	FEET
e. BRIDGE LENGTH =	0.000	FT
f. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
g. EXISTING PAVEMENT WIDTH =	80	FEET
h. NOMINAL PAVEMENT WIDENING =	35	FEET
i. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
j. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 4-5 LANES	
k. EDWARDS AQUIFER/WATER QUALITY ZONE?	Yes	
l. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
m. NUMBER OF SIGNALIZED INTERSECTIONS	4	
n. NUMBER OF MONTHS FOR CONSTRUCTION	12	
o. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a. PREPARING ROW		89	STA	\$ 2,326.71	\$ 207,077
b. EXCAVATION		19,853	CY	\$ 16.34	\$ 324,311
c. EMBANKMENT		9,927	CY	\$ 15.97	\$ 158,521
d. HMAC PAVEMENT (ROADWAY)		34,547	SY	\$ 76.32	\$ 2,636,720
e. MILL AND OVERLAY COST		78,964	SY	\$ 16.15	\$ 1,275,261
f. DRAINAGE SYSTEMS		1.682	LS/MI	\$ 180,400.00	\$ 303,516
g. WATER QUALITY ADDITIONAL ALLOWANCE		20%	LS/MI	\$ 36,080.00	\$ 60,703
h. ILLUMINATION (ROADWAY)		2	LS/MI	\$ 360,000.00	\$ 605,686
i. ILLUMINATION (DECORATIVE)		3	LS/MI	\$ 219,000.00	\$ 736,918
j. SIGNING AND PAVEMENT MARKINGS		5%	LS/MI		\$ 131,835.98
k. TEMPORARY/PERMANENT EROSION CONTROL		3%			\$ 142,770.95
l. SIDEWALK/SHARED USE PATH		13,819	SY	\$ 54.99	\$ 759,930.34
m. LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE		5%			\$ 237,951.58
n. CURB AND GUTTER		35,534	LF	\$ 16.30	\$ 579,136
o. CYCLE TRACK PAVEMENT		15,793	SY	\$ 44.73	\$ 706,447
p. SIGNALIZATION		4	EA	\$ 250,000	\$ 1,000,000
q. BARRICADES, SIGNS, AND TRAFFIC HANDLING		12	MO	\$ 12,062.21	\$ 144,747
r. CROSS DRAINAGE STRUCTURES			LS		
s. RETAINING WALLS			LS		
t. UTILITY RELOCATIONS/ADJUSTMENTS			LS		
u. SAFETY ALLOWANCE		2	LS/MI	\$ 80,000.00	\$ 134,597
v. RAISED/PAVED CYCLE TRACK OR PARKING BUFFER		-	SY	\$ 46.60	\$ -
w. BRIDGE WIDENING		0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 10,146,127
III. OTHER ITEMS					
MOBILIZATION		10%			\$ 1,014,612.71
ENGINEERING AND DESIGN		15%			\$ 1,521,919.06
CONSTRUCTION CONTINGENCY		10%			\$ 1,014,612.71
CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)		10%			\$ 1,217,535.25
SUBTOTAL					\$ 4,768,679.72
MASTER CONTINGENCY					30%
					\$ 4,474,442.03
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 19,389,248.81
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		113,510	SY	\$ 7.00	\$ 794,748.42
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 40,850,222.88
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 1,674,415.05

This estimate represents our engineering judgment as professionals knowledgeable with the construction of similar projects.
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ESTIMATED CONSTRUCTION COST TEMPLATE

B-3.11

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Hunter Rd/FM 2439

PROJECT LIMITS:

Wonder World Dr to Bridge over Purgatory Creek

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (1 LANE)	
b. TYPICAL SECTION:	BV 115-71	
c. PROJECT LENGTH =	0.143	MILES
d. NOMINAL ROW WIDTH =	115	FEET
d. BRIDGE LENGTH =	0.000	FT
e. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
f. EXISTING PAVEMENT WIDTH =	80	FEET
g. NOMINAL PAVEMENT WIDENING =	35	FEET
h. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
i. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 4-5 LANES	
j. EDWARDS AQUIFER/WATER QUALITY ZONE?	Yes	
k. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
l. NUMBER OF SIGNALIZED INTERSECTIONS	4	
m. NUMBER OF MONTHS FOR CONSTRUCTION	12	
n. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	8	STA	\$ 2,326.71	\$ 18,614
b.	EXCAVATION	1,691	CY	\$ 16.34	\$ 27,623
c.	EMBANKMENT	845	CY	\$ 15.97	\$ 13,502
d.	HMAC PAVEMENT (ROADWAY)	2,942	SY	\$ 76.32	\$ 224,578
e.	MILL AND OVERLAY COST	6,726	SY	\$ 16.15	\$ 108,618
f.	DRAINAGE SYSTEMS	0.143	LS/MI	\$ 180,400.00	\$ 25,851
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ 36,080.00	\$ 5,170
h.	ILLUMINATION (ROADWAY)	0	LS/MI	\$ 360,000.00	\$ 51,588
i.	ILLUMINATION (DECORATIVE)	0	LS/MI	\$ 219,000.00	\$ 62,766
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI		\$ 11,228.90
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%			\$ 12,160.26
l.	SIDEWALK/SHARED USE PATH	1,177	SY	\$ 54.99	\$ 64,725.73
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%			\$ 20,267.11
n.	CURB AND GUTTER	3,027	LF	\$ 16.30	\$ 49,327
o.	CYCLE TRACK PAVEMENT	1,345	SY	\$ 44.73	\$ 60,170
p.	SIGNALIZATION	4	EA	\$ 250,000	\$ 1,000,000
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	0	LS/MI	\$ 80,000.00	\$ 11,464
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 1,912,400
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 191,239.95
	ENGINEERING AND DESIGN	15%			\$ 286,859.93
	CONSTRUCTION CONTINGENCY	10%			\$ 191,239.95
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 229,487.94
SUBTOTAL					\$ 898,827.77
MASTER CONTINGENCY					30%
					\$ 843,368.18
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 3,654,595.45
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		9,668	SY	\$ 7.00	\$ 67,691.29
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					\$ 7,699,681.41
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 142,615.35

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ESTIMATED CONSTRUCTION COST TEMPLATE

B-4

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Wonder World Dr

PROJECT LIMITS:

Old Ranch Road 12 to Hunter

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (1 LANE)	
b. TYPICAL SECTION:	BV 110-50	
c. PROJECT LENGTH =	2.803	MILES
d. NOMINAL ROW WIDTH =	110	FEET
e. BRIDGE LENGTH =	0.000	FT
f. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
g. EXISTING PAVEMENT WIDTH =	70	FEET
h. NOMINAL PAVEMENT WIDENING =	40	FEET
i. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
j. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 4-5 LANES	
k. EDWARDS AQUIFER/WATER QUALITY ZONE?	Yes	
l. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
m. NUMBER OF SIGNALIZED INTERSECTIONS	2	
n. NUMBER OF MONTHS FOR CONSTRUCTION	12	
o. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	149	STA	\$ 2,326.71	\$ 346,679
b.	EXCAVATION	33,077	CY	\$ 16.34	\$ 540,325
c.	EMBANKMENT	16,538	CY	\$ 15.97	\$ 264,107
d.	HMAC PAVEMENT (ROADWAY)	65,779	SY	\$ 76.32	\$ 5,020,529
e.	MILL AND OVERLAY COST	115,114	SY	\$ 16.15	\$ 1,859,091
f.	DRAINAGE SYSTEMS	2.803	LS/MI	\$ 180,400.00	\$ 505,679
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ 36,080.00	\$ 101,136
h.	ILLUMINATION (ROADWAY)	3	LS/MI	\$ 360,000.00	\$ 1,009,116
i.	ILLUMINATION (DECORATIVE)	6	LS/MI	\$ 219,000.00	\$ 1,227,758
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI		\$ 251,026.43
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%			\$ 248,726.00
l.	SIDEWALK/SHARED USE PATH	23,023	SY	\$ 54.99	\$ 1,266,098.01
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%			\$ 414,543.34
n.	CURB AND GUTTER	118,403	LF	\$ 16.30	\$ 1,929,762
o.	CYCLE TRACK PAVEMENT	23,023	SY	\$ 44.73	\$ 1,029,866
p.	SIGNALIZATION	2	EA	\$ 250,000	\$ 500,000
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	3	LS/MI	\$ 80,000.00	\$ 224,248
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 16,883,437
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 1,688,343.72
	ENGINEERING AND DESIGN	15%			\$ 2,532,515.58
	CONSTRUCTION CONTINGENCY	10%			\$ 1,688,343.72
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 2,026,012.46
SUBTOTAL					\$ 7,935,215.47
MASTER CONTINGENCY					30%
					\$ 7,445,595.79
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 32,264,248.43
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		180,893	SY	\$ 7.00	\$ 1,266,537.52
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					\$ 67,975,905.22
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 2,668,403.53

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ESTIMATED CONSTRUCTION COST TEMPLATE

B-4.1

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Wonder World Dr

PROJECT LIMITS:

Hunter Rd/FM 2439 to Stagecoach Trl

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (1 LANE)	
b. TYPICAL SECTION:	BV 115-71	
c. PROJECT LENGTH =	0.350	MILES
d. NOMINAL ROW WIDTH =	115	FEET
d. BRIDGE LENGTH =	0.000	FT
e. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
f. EXISTING PAVEMENT WIDTH =	76	FEET
g. NOMINAL PAVEMENT WIDENING =	39	FEET
h. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
i. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 4-5 LANES	
j. EDWARDS AQUIFER/WATER QUALITY ZONE?	Yes	
k. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
l. NUMBER OF SIGNALIZED INTERSECTIONS	2	
m. NUMBER OF MONTHS FOR CONSTRUCTION	12	
n. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	19	STA	\$ 2,326.71	\$ 44,207
b.	EXCAVATION	4,130	CY	\$ 16.34	\$ 67,462
c.	EMBANKMENT	2,065	CY	\$ 15.97	\$ 32,975
d.	HMAC PAVEMENT (ROADWAY)	8,008	SY	\$ 76.32	\$ 611,168
e.	MILL AND OVERLAY COST	15,605	SY	\$ 16.15	\$ 252,013
f.	DRAINAGE SYSTEMS	0.350	LS/MI	\$ 180,400.00	\$ 63,137
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ 36,080.00	\$ 12,627
h.	ILLUMINATION (ROADWAY)	0	LS/MI	\$ 360,000.00	\$ 125,993
i.	ILLUMINATION (DECORATIVE)	1	LS/MI	\$ 219,000.00	\$ 153,292
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI		\$ 30,558.42
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%			\$ 31,181.49
l.	SIDEWALK/SHARED USE PATH	2,875	SY	\$ 54.99	\$ 158,078.99
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%			\$ 51,969.15
n.	CURB AND GUTTER	7,392	LF	\$ 16.30	\$ 120,470
o.	CYCLE TRACK PAVEMENT	3,285	SY	\$ 44.73	\$ 146,953
p.	SIGNALIZATION	2	EA	\$250,000	\$ 500,000
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	0	LS/MI	\$ 80,000.00	\$ 27,999
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 2,574,833
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 257,483.30
	ENGINEERING AND DESIGN	15%			\$ 386,224.95
	CONSTRUCTION CONTINGENCY	10%			\$ 257,483.30
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 308,979.96
SUBTOTAL					\$ 1,210,171.51
MASTER CONTINGENCY					30%
					\$ 1,135,501.36
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 4,920,505.88
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		23,612	SY	\$ 7.00	\$ 165,321.77
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 10,366,763.76
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 348,308.03

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ESTIMATED CONSTRUCTION COST TEMPLATE

B-5

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Craddock Ave

PROJECT LIMITS:

Wonder World Dr to Old Ranch Road 12

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (1 LANE)	
b. TYPICAL SECTION:	BV 110-50	
c. PROJECT LENGTH =	2.052	MILES
d. NOMINAL ROW WIDTH =	110	FEET
e. BRIDGE LENGTH =	0.000	FT
f. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
g. EXISTING PAVEMENT WIDTH =	60	FEET
h. NOMINAL PAVEMENT WIDENING =	50	FEET
i. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
j. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 4-5 LANES	
k. EDWARDS AQUIFER/WATER QUALITY ZONE?	Yes	
l. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
m. NUMBER OF SIGNALIZED INTERSECTIONS	2	
n. NUMBER OF MONTHS FOR CONSTRUCTION	12	
o. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	109	STA	\$ 2,326.71	\$ 253,611
b.	EXCAVATION	24,216	CY	\$ 16.34	\$ 395,589
c.	EMBANKMENT	12,108	CY	\$ 15.97	\$ 193,362
d.	HMAC PAVEMENT (ROADWAY)	60,199	SY	\$ 76.32	\$ 4,594,615
e.	MILL AND OVERLAY COST	72,239	SY	\$ 16.15	\$ 1,166,658
f.	DRAINAGE SYSTEMS	2.052	LS/MI	\$ 180,400.00	\$ 370,224
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ 36,080.00	\$ 74,045
h.	ILLUMINATION (ROADWAY)	2	LS/MI	\$ 360,000.00	\$ 738,807
i.	ILLUMINATION (DECORATIVE)	4	LS/MI	\$ 219,000.00	\$ 898,882
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI		\$ 229,730.77
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%			\$ 203,834.80
l.	SIDEWALK/SHARED USE PATH	16,856	SY	\$ 54.99	\$ 926,951.55
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%			\$ 339,724.67
n.	CURB AND GUTTER	86,687	LF	\$ 16.30	\$ 1,412,842
o.	CYCLE TRACK PAVEMENT	16,856	SY	\$ 44.73	\$ 753,999
p.	SIGNALIZATION	2	EA	\$ 250,000	\$ 500,000
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	2	LS/MI	\$ 80,000.00	\$ 164,179
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 13,361,801
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 1,336,180.08
	ENGINEERING AND DESIGN	15%			\$ 2,004,270.12
	CONSTRUCTION CONTINGENCY	10%			\$ 1,336,180.08
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 1,603,416.10
SUBTOTAL					\$ 6,280,046.38
MASTER CONTINGENCY					30%
					\$ 5,892,554.15
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 25,534,401.34
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		132,438	SY	\$ 7.00	\$ 927,273.33
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					\$ 53,797,132.42
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 1,953,625.04

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ESTIMATED CONSTRUCTION COST TEMPLATE

B-6

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Old Ranch Road 12

PROJECT LIMITS:

Holland St to End of Old Ranch Road 12

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (2 LANE)	
b. TYPICAL SECTION:	BV 110-50	
c. PROJECT LENGTH =	1.751	MILES
d. NOMINAL ROW WIDTH =	110	FEET
d. BRIDGE LENGTH =	0.000	FT
e. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
f. EXISTING PAVEMENT WIDTH =	40	FEET
g. NOMINAL PAVEMENT WIDENING =	70	FEET
h. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
i. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 4-5 LANES	
j. EDWARDS AQUIFER/WATER QUALITY ZONE?	Yes	
k. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
l. NUMBER OF SIGNALIZED INTERSECTIONS	3	
m. NUMBER OF MONTHS FOR CONSTRUCTION	12	
n. YEARS OF MAINTAINENCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	93	STA	\$ 2,326.71	\$ 216,384
b.	EXCAVATION	28,895	CY	\$ 16.34	\$ 472,013
c.	EMBANKMENT	14,535	CY	\$ 15.97	\$ 232,115
d.	HMAC PAVEMENT (ROADWAY)	71,916	SY	\$ 76.32	\$ 5,488,891
e.	MILL AND OVERLAY COST	41,095	SY	\$ 16.15	\$ 663,681
f.	DRAINAGE SYSTEMS	1.751	LS/MI	\$ 180,400.00	\$ 315,916
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ 36,080.00	\$ 63,183
h.	ILLUMINATION (ROADWAY)	2	LS/MI	\$ 360,000.00	\$ 630,432
i.	ILLUMINATION (DECORATIVE)	4	LS/MI	\$ 219,000.00	\$ 767,026
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI		\$ 274,444.54
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%			\$ 217,074.00
l.	SIDEWALK/SHARED USE PATH	14,383	SY	\$ 54.99	\$ 790,978.04
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%			\$ 361,790.01
n.	CURB AND GUTTER	73,971	LF	\$ 16.30	\$ 1,205,594
o.	CYCLE TRACK PAVEMENT	14,383	SY	\$ 44.73	\$ 643,396
p.	SIGNALIZATION	3	EA	\$250,000	\$ 750,000
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	2	LS/MI	\$ 80,000.00	\$ 140,096
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 13,377,760
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 1,337,775.96
	ENGINEERING AND DESIGN	15%			\$ 2,006,663.94
	CONSTRUCTION CONTINGENCY	10%			\$ 1,337,775.96
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 1,605,331.15
SUBTOTAL					\$ 6,287,547.01
MASTER CONTINGENCY					30%
					\$ 5,899,591.98
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 25,564,898.58
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		113,011	SY	\$ 7.00	\$ 791,252.61
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 53,861,385.51
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 1,667,049.91

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ESTIMATED CONSTRUCTION COST TEMPLATE

B-7

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Ranch Road 12

PROJECT LIMITS:

Old Ranch Road 12 to End (Past City Limits)

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (2 LANE)	
b. TYPICAL SECTION:	BV 110-50	
c. PROJECT LENGTH =	4.067	MILES
d. NOMINAL ROW WIDTH =	110	FEET
d. BRIDGE LENGTH =	0.000	FT
e. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
f. EXISTING PAVEMENT WIDTH =	48	FEET
g. NOMINAL PAVEMENT WIDENING =	62	FEET
h. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
i. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 4-5 LANES	
j. EDWARDS AQUIFER/WATER QUALITY ZONE?	Yes	
k. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
l. NUMBER OF SIGNALIZED INTERSECTIONS	0	
m. NUMBER OF MONTHS FOR CONSTRUCTION	12	
n. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	215	STA	\$ 2,326.71	\$ 500,242
b.	EXCAVATION	67,100	CY	\$ 16.34	\$ 1,096,119
c.	EMBANKMENT	33,753	CY	\$ 15.97	\$ 539,024
d.	HMAC PAVEMENT (ROADWAY)	147,919	SY	\$ 76.32	\$ 11,289,696
e.	MILL AND OVERLAY COST	114,518	SY	\$ 16.15	\$ 1,849,460
f.	DRAINAGE SYSTEMS	4.067	LS/MI	\$ 180,400.00	\$ 733,629
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ 36,080.00	\$ 146,726
h.	ILLUMINATION (ROADWAY)	4	LS/MI	\$ 360,000.00	\$ 1,464,004
i.	ILLUMINATION (DECORATIVE)	8	LS/MI	\$ 219,000.00	\$ 1,781,205
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI		\$ 564,484.82
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%			\$ 469,639.60
l.	SIDEWALK/SHARED USE PATH	33,401	SY	\$ 54.99	\$ 1,836,827.78
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%			\$ 782,732.67
n.	CURB AND GUTTER	171,776	LF	\$ 16.30	\$ 2,799,658
o.	CYCLE TRACK PAVEMENT	33,401	SY	\$ 44.73	\$ 1,494,108
p.	SIGNALIZATION	-	EA	\$250,000	\$ -
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	4	LS/MI	\$ 80,000.00	\$ 325,334
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 27,817,636
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 2,781,763.56
	ENGINEERING AND DESIGN	15%			\$ 4,172,645.33
	CONSTRUCTION CONTINGENCY	10%			\$ 2,781,763.56
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 3,338,116.27
SUBTOTAL					\$ 13,074,288.71
MASTER CONTINGENCY					30%
					\$ 12,267,577.28
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 53,159,501.54
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		262,436	SY	\$ 7.00	\$ 1,837,465.41
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					\$ 111,999,052.01
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 3,871,262.48

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ESTIMATED CONSTRUCTION COST TEMPLATE

B-8

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Aqarena Springs

PROJECT LIMITS:

University Dr to IH 35 NBFR

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (1 LANE)	
b. TYPICAL SECTION:	BV 115-71	
c. PROJECT LENGTH =	1.691	MILES
d. NOMINAL ROW WIDTH =	115	FEET
e. BRIDGE LENGTH =	90.000	FT
f. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
g. EXISTING PAVEMENT WIDTH =	62	FEET
h. NOMINAL PAVEMENT WIDENING =	53	FEET
i. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
j. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 4-5 LANES	
k. EDWARDS AQUIFER/WATER QUALITY ZONE?	Yes	
l. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
m. NUMBER OF SIGNALIZED INTERSECTIONS	8	
n. NUMBER OF MONTHS FOR CONSTRUCTION	12	
o. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	90	STA	\$ 2,326.71	\$ 209,404
b.	EXCAVATION	19,956	CY	\$ 16.34	\$ 325,994
c.	EMBANKMENT	9,978	CY	\$ 15.97	\$ 159,344
d.	HMAC PAVEMENT (ROADWAY)	52,055	SY	\$ 76.32	\$ 3,973,023
e.	MILL AND OVERLAY COST	60,894	SY	\$ 16.15	\$ 983,445
f.	DRAINAGE SYSTEMS	1.691	LS/MI	\$ 180,400.00	\$ 305,092
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ 36,080.00	\$ 61,018
h.	ILLUMINATION (ROADWAY)	2	LS/MI	\$ 360,000.00	\$ 608,830
i.	ILLUMINATION (DECORATIVE)	3	LS/MI	\$ 219,000.00	\$ 740,744
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI		\$ 198,651.17
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%			\$ 174,237.51
l.	SIDEWALK/SHARED USE PATH	13,890	SY	\$ 54.99	\$ 763,875.47
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%			\$ 290,395.84
n.	CURB AND GUTTER	35,718	LF	\$ 16.30	\$ 582,142
o.	CYCLE TRACK PAVEMENT	15,875	SY	\$ 44.73	\$ 710,114
p.	SIGNALIZATION	8	EA	\$ 250,000	\$ 2,000,000
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	2	LS/MI	\$ 80,000.00	\$ 135,296
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	4950	SF	\$ 90.00	\$ 445,500.00
SUBTOTAL					\$ 12,811,853
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 1,281,185.31
	ENGINEERING AND DESIGN	15%			\$ 1,921,777.96
	CONSTRUCTION CONTINGENCY	10%			\$ 1,281,185.31
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 1,537,422.37
SUBTOTAL					\$ 6,021,570.94
MASTER CONTINGENCY					30%
					\$ 5,650,027.20
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 24,483,451.20
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		114,099	SY	\$ 7.00	\$ 798,874.30
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 51,582,938.98
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 1,683,107.67

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ESTIMATED CONSTRUCTION COST TEMPLATE

B-9

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Hopkins

PROJECT LIMITS:

CM Allen Pkwy to IH 35 NBFR

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (1 LANE)	
b. TYPICAL SECTION:	BV 115-71	
c. PROJECT LENGTH =	1.339	MILES
d. NOMINAL ROW WIDTH =	115	FEET
d. BRIDGE LENGTH =	400.000	FT
e. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
f. EXISTING PAVEMENT WIDTH =	60	FEET
g. NOMINAL PAVEMENT WIDENING =	55	FEET
h. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
i. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 4-5 LANES	
j. EDWARDS AQUIFER/WATER QUALITY ZONE?	Yes	
k. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
l. NUMBER OF SIGNALIZED INTERSECTIONS	6	
m. NUMBER OF MONTHS FOR CONSTRUCTION	12	
n. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	71	STA	\$ 2,326.71	\$ 165,196
b.	EXCAVATION	15,796	CY	\$ 16.34	\$ 258,035
c.	EMBANKMENT	7,898	CY	\$ 15.97	\$ 126,126
d.	HMAC PAVEMENT (ROADWAY)	40,749	SY	\$ 76.32	\$ 3,110,104
e.	MILL AND OVERLAY COST	44,453	SY	\$ 16.15	\$ 717,921
f.	DRAINAGE SYSTEMS	1.339	LS/MI	\$ 180,400.00	\$ 241,490
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ 36,080.00	\$ 48,298
h.	ILLUMINATION (ROADWAY)	1	LS/MI	\$ 360,000.00	\$ 481,909
i.	ILLUMINATION (DECORATIVE)	3	LS/MI	\$ 219,000.00	\$ 586,322
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI		\$ 155,505.19
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%			\$ 135,059.20
l.	SIDEWALK/SHARED USE PATH	10,995	SY	\$ 54.99	\$ 604,631.86
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%			\$ 225,098.66
n.	CURB AND GUTTER	28,272	LF	\$ 16.30	\$ 460,784
o.	CYCLE TRACK PAVEMENT	12,565	SY	\$ 44.73	\$ 562,078
p.	SIGNALIZATION	6	EA	\$250,000	\$ 1,500,000
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	1	LS/MI	\$ 80,000.00	\$ 107,091
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	22800	SF	\$ 90.00	\$ 2,052,000.00
SUBTOTAL					\$ 11,682,395
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 1,168,239.50
	ENGINEERING AND DESIGN	15%			\$ 1,752,359.24
	CONSTRUCTION CONTINGENCY	10%			\$ 1,168,239.50
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 1,401,887.40
SUBTOTAL					\$ 5,490,725.63
MASTER CONTINGENCY					30%
					\$ 5,151,936.18
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 22,325,056.77
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		90,313	SY	\$ 7.00	\$ 632,334.55
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 47,035,527.47
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 1,332,233.53

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ESTIMATED CONSTRUCTION COST TEMPLATE

B-10

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Highway 80

PROJECT LIMITS:

River Rd to IH 35 NBFR

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (2 LANE)	
b. TYPICAL SECTION:	BV 125-72	
c. PROJECT LENGTH =	0.696	MILES
d. NOMINAL ROW WIDTH =	125	FEET
d. BRIDGE LENGTH =	0.000	FT
e. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
f. EXISTING PAVEMENT WIDTH =	64	FEET
g. NOMINAL PAVEMENT WIDENING =	61	FEET
h. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
i. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 4-5 LANES	
j. EDWARDS AQUIFER/WATER QUALITY ZONE?	No	
k. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
l. NUMBER OF SIGNALIZED INTERSECTIONS	3	
m. NUMBER OF MONTHS FOR CONSTRUCTION	12	
n. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	37	STA	\$ 2,326.71	\$ 86,088
b.	EXCAVATION	11,488	CY	\$ 16.34	\$ 187,660
c.	EMBANKMENT	5,779	CY	\$ 15.97	\$ 92,283
d.	HMAC PAVEMENT (ROADWAY)	24,916	SY	\$ 76.32	\$ 1,901,662
e.	MILL AND OVERLAY COST	26,141	SY	\$ 16.15	\$ 422,179
f.	DRAINAGE SYSTEMS	0.696	LS/MI	\$ 180,400.00	\$ 125,600
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ -	\$ -
h.	ILLUMINATION (ROADWAY)	1	LS/MI	\$ 360,000.00	\$ 250,643
i.	ILLUMINATION (DECORATIVE)	1	LS/MI	\$ 219,000.00	\$ 304,949
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI		\$ 95,083.11
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%			\$ 81,881.50
l.	SIDEWALK/SHARED USE PATH	8,578	SY	\$ 54.99	\$ 471,707.38
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%			\$ 136,469.17
n.	CURB AND GUTTER	14,704	LF	\$ 16.30	\$ 239,656
o.	CYCLE TRACK PAVEMENT	-	SY	\$ 44.73	\$ -
p.	SIGNALIZATION	3	EA	\$ 250,000	\$ 750,000
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	1	LS/MI	\$ 80,000.00	\$ 55,698
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 5,346,305
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 534,630.51
	ENGINEERING AND DESIGN	15%			\$ 801,945.76
	CONSTRUCTION CONTINGENCY	10%			\$ 534,630.51
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 641,556.61
SUBTOTAL					\$ 2,512,763.39
MASTER CONTINGENCY					30%
					\$ 2,357,720.54
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 10,216,789.00
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		51,057	SY	\$ 7.00	\$ 357,478.12
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 21,525,233.49
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 753,152.49

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ESTIMATED CONSTRUCTION COST TEMPLATE

B-11

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Highway 80

PROJECT LIMITS:

Old Bastrop Hwy to River Rd

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (1 LANE)	
b. TYPICAL SECTION:	BV 115-71	
c. PROJECT LENGTH =	1.234	MILES
d. NOMINAL ROW WIDTH =	115	FEET
d. BRIDGE LENGTH =	650.000	FT
e. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
f. EXISTING PAVEMENT WIDTH =	80	FEET
g. NOMINAL PAVEMENT WIDENING =	35	FEET
h. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
i. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 4-5 LANES	
j. EDWARDS AQUIFER/WATER QUALITY ZONE?	No	
k. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
l. NUMBER OF SIGNALIZED INTERSECTIONS	2	
m. NUMBER OF MONTHS FOR CONSTRUCTION	12	
n. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	66	STA	\$ 2,326.71	\$ 153,563
b.	EXCAVATION	14,563	CY	\$ 16.34	\$ 237,895
c.	EMBANKMENT	7,282	CY	\$ 15.97	\$ 116,282
d.	HMAC PAVEMENT (ROADWAY)	22,813	SY	\$ 76.32	\$ 1,741,210
e.	MILL AND OVERLAY COST	52,145	SY	\$ 16.15	\$ 842,144
f.	DRAINAGE SYSTEMS	1.234	LS/MI	\$ 180,400.00	\$ 222,641
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ -	\$ -
h.	ILLUMINATION (ROADWAY)	1	LS/MI	\$ 360,000.00	\$ 444,295
i.	ILLUMINATION (DECORATIVE)	2	LS/MI	\$ 219,000.00	\$ 540,559
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI	\$ -	\$ 87,060.49
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%		\$ -	\$ 94,805.13
l.	SIDEWALK/SHARED USE PATH	10,137	SY	\$ 54.99	\$ 557,439.26
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%		\$ -	\$ 158,008.55
n.	CURB AND GUTTER	26,065	LF	\$ 16.30	\$ 424,819
o.	CYCLE TRACK PAVEMENT	11,585	SY	\$ 44.73	\$ 518,207
p.	SIGNALIZATION	2	EA	\$ 250,000	\$ 500,000
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	1	LS/MI	\$ 80,000.00	\$ 98,732
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	24050	SF	\$ 90.00	\$ 2,164,500.00
SUBTOTAL					\$ 9,046,906
III. OTHER ITEMS					
	MOBILIZATION	10%		\$ -	\$ 904,690.55
	ENGINEERING AND DESIGN	15%		\$ -	\$ 1,357,035.83
	CONSTRUCTION CONTINGENCY	10%		\$ -	\$ 904,690.55
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%		\$ -	\$ 1,085,628.67
SUBTOTAL					\$ 4,252,045.61
MASTER CONTINGENCY					30%
					\$ 3,989,685.35
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 17,288,636.50
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		83,264	SY	\$ 7.00	\$ 582,979.71
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					\$ 36,424,549.57
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 1,228,250.32

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ESTIMATED CONSTRUCTION COST TEMPLATE

B-12

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Highway 21

PROJECT LIMITS:

Old Bastrop Hwy to Highway 80

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (1 LANE)	
b. TYPICAL SECTION:	BV 115-71	
c. PROJECT LENGTH =	0.725	MILES
d. NOMINAL ROW WIDTH =	115	FEET
e. BRIDGE LENGTH =	0.000	FT
f. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
g. EXISTING PAVEMENT WIDTH =	68	FEET
h. NOMINAL PAVEMENT WIDENING =	47	FEET
i. HMA PAVEMENT TYPE	URBAN ARTERIAL	
j. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 4-5 LANES	
k. EDWARDS AQUIFER/WATER QUALITY ZONE?	No	
l. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
m. NUMBER OF SIGNALIZED INTERSECTIONS	0	
n. NUMBER OF MONTHS FOR CONSTRUCTION	12	
o. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	39	STA	\$ 2,326.71	\$ 90,742
b.	EXCAVATION	8,555	CY	\$ 16.34	\$ 139,749
c.	EMBANKMENT	4,277	CY	\$ 15.97	\$ 68,308
d.	HMA PAVEMENT (ROADWAY)	19,990	SY	\$ 76.32	\$ 1,525,742
e.	MILL AND OVERLAY COST	28,922	SY	\$ 16.15	\$ 467,095
f.	DRAINAGE SYSTEMS	0.725	LS/MI	\$ 180,400.00	\$ 130,788
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ -	\$ -
h.	ILLUMINATION (ROADWAY)	1	LS/MI	\$ 360,000.00	\$ 260,997
i.	ILLUMINATION (DECORATIVE)	1	LS/MI	\$ 219,000.00	\$ 317,546
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI	\$ -	\$ 76,287.08
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%		\$ -	\$ 69,950.47
l.	SIDEWALK/SHARED USE PATH	5,955	SY	\$ 54.99	\$ 327,462.08
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%		\$ -	\$ 116,584.11
n.	CURB AND GUTTER	15,312	LF	\$ 16.30	\$ 249,556
o.	CYCLE TRACK PAVEMENT	6,805	SY	\$ 44.73	\$ 304,415
p.	SIGNALIZATION	-	EA	\$ 250,000	\$ -
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	1	LS/MI	\$ 80,000.00	\$ 57,999
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 4,347,967
III. OTHER ITEMS					
	MOBILIZATION	10%		\$	434,796.69
	ENGINEERING AND DESIGN	15%		\$	652,195.03
	CONSTRUCTION CONTINGENCY	10%		\$	434,796.69
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%		\$	521,756.03
SUBTOTAL					\$ 2,043,544.44
MASTER CONTINGENCY					30%
					\$ 1,917,453.40
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 8,308,964.72
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		48,913	SY	\$ 7.00	\$ 342,465.56
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					\$ 17,505,735.48
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%		\$	721,523.29

This estimate represents our engineering judgment as professionals knowledgeable with the construction of similar projects.
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ESTIMATED CONSTRUCTION COST TEMPLATE

B-13

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Highway 21

PROJECT LIMITS:

Old Bastrop Hwy to End

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (2 LANE)	
b. TYPICAL SECTION:	BV 110-50	
c. PROJECT LENGTH =	6.464	MILES
d. NOMINAL ROW WIDTH =	110	FEET
e. BRIDGE LENGTH =	0.000	FT
f. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
g. EXISTING PAVEMENT WIDTH =	32	FEET
h. NOMINAL PAVEMENT WIDENING =	78	FEET
i. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
j. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 4-5 LANES	
k. EDWARDS AQUIFER/WATER QUALITY ZONE?	No	
l. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
m. NUMBER OF SIGNALIZED INTERSECTIONS	0	
n. NUMBER OF MONTHS FOR CONSTRUCTION	12	
o. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	342	STA	\$ 2,326.71	\$ 795,734
b.	EXCAVATION	106,650	CY	\$ 16.34	\$ 1,742,196
c.	EMBANKMENT	53,648	CY	\$ 15.97	\$ 856,736
d.	HMAC PAVEMENT (ROADWAY)	295,777	SY	\$ 76.32	\$ 22,574,823
e.	MILL AND OVERLAY COST	121,345	SY	\$ 16.15	\$ 1,959,715
f.	DRAINAGE SYSTEMS	6.464	LS/MI	\$ 180,400.00	\$ 1,166,045
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ -	\$ -
h.	ILLUMINATION (ROADWAY)	6	LS/MI	\$ 360,000.00	\$ 2,326,920
i.	ILLUMINATION (DECORATIVE)	13	LS/MI	\$ 219,000.00	\$ 2,831,086
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI		\$ 1,128,741.16
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%			\$ 848,985.45
l.	SIDEWALK/SHARED USE PATH	53,088	SY	\$ 54.99	\$ 2,919,494.24
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%			\$ 1,414,975.75
n.	CURB AND GUTTER	273,025	LF	\$ 16.30	\$ 4,449,837
o.	CYCLE TRACK PAVEMENT	53,088	SY	\$ 44.73	\$ 2,374,768
p.	SIGNALIZATION	-	EA	\$ 250,000	\$ -
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	6	LS/MI	\$ 80,000.00	\$ 517,093
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 48,051,896
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 4,805,189.62
	ENGINEERING AND DESIGN	15%			\$ 7,207,784.42
	CONSTRUCTION CONTINGENCY	10%			\$ 4,805,189.62
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 5,766,227.54
SUBTOTAL					\$ 22,584,391.19
MASTER CONTINGENCY					30%
					\$ 21,190,886.20
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 91,827,173.54
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		417,122	SY	\$ 7.00	\$ 2,920,507.70
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 193,466,004.92
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 6,153,069.24

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ESTIMATED CONSTRUCTION COST TEMPLATE

B-15

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Highway 80

PROJECT LIMITS:

FM 1984 to End

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (1 LANE)	
b. TYPICAL SECTION:	BV 110-50	
c. PROJECT LENGTH =	4.071	MILES
d. NOMINAL ROW WIDTH =	110	FEET
e. BRIDGE LENGTH =	0.000	FT
f. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
g. EXISTING PAVEMENT WIDTH =	48	FEET
h. NOMINAL PAVEMENT WIDENING =	62	FEET
i. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
j. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 4-5 LANES	
k. EDWARDS AQUIFER/WATER QUALITY ZONE?	No	
l. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
m. NUMBER OF SIGNALIZED INTERSECTIONS	2	
n. NUMBER OF MONTHS FOR CONSTRUCTION	12	
o. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a. PREPARING ROW		215	STA	\$ 2,326.71	\$ 500,242
b. EXCAVATION		48,040	CY	\$ 16.34	\$ 784,759
c. EMBANKMENT		24,020	CY	\$ 15.97	\$ 383,586
d. HMAC PAVEMENT (ROADWAY)		148,082	SY	\$ 76.32	\$ 11,302,195
e. MILL AND OVERLAY COST		114,644	SY	\$ 16.15	\$ 1,851,507
f. DRAINAGE SYSTEMS		4.071	LS/MI	\$ 180,400.00	\$ 734,441
g. WATER QUALITY ADDITIONAL ALLOWANCE		20%	LS/MI	\$ -	\$ -
h. ILLUMINATION (ROADWAY)		4	LS/MI	\$ 360,000.00	\$ 1,465,625
i. ILLUMINATION (DECORATIVE)		8	LS/MI	\$ 219,000.00	\$ 1,783,177
j. SIGNING AND PAVEMENT MARKINGS		5%	LS/MI	\$ -	\$ 565,109.73
k. TEMPORARY/PERMANENT EROSION CONTROL		3%		\$ -	\$ 451,694.62
l. SIDEWALK/SHARED USE PATH		33,438	SY	\$ 54.99	\$ 1,838,861.23
m. LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE		5%		\$ -	\$ 752,824.37
n. CURB AND GUTTER		171,967	LF	\$ 16.30	\$ 2,802,757
o. CYCLE TRACK PAVEMENT		33,438	SY	\$ 44.73	\$ 1,495,762
p. SIGNALIZATION		2	EA	\$ 250,000	\$ 500,000
q. BARRICADES, SIGNS, AND TRAFFIC HANDLING		12	MO	\$ 12,062.21	\$ 144,747
r. CROSS DRAINAGE STRUCTURES			LS		
s. RETAINING WALLS			LS		
t. UTILITY RELOCATIONS/ADJUSTMENTS			LS		
u. SAFETY ALLOWANCE		4	LS/MI	\$ 80,000.00	\$ 325,694
v. RAISED/PAVED CYCLE TRACK OR PARKING BUFFER		-	SY	\$ 46.60	\$ -
w. BRIDGE WIDENING		0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 27,682,981
III. OTHER ITEMS					
MOBILIZATION		10%		\$ -	\$ 2,768,298.06
ENGINEERING AND DESIGN		15%		\$ -	\$ 4,152,447.09
CONSTRUCTION CONTINGENCY		10%		\$ -	\$ 2,768,298.06
CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)		10%		\$ -	\$ 3,321,957.67
SUBTOTAL					\$ 13,011,000.88
MASTER CONTINGENCY					30%
					\$ 12,208,194.45
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 52,902,175.94
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
	262,727	SY	\$ 7.00	\$ 1,839,499.56	
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					
	4%			\$ 111,456,905.78	
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
	4%			\$ 3,875,548.12	

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ESTIMATED CONSTRUCTION COST TEMPLATE

B-15.1

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Highway 80

PROJECT LIMITS:

Old Bastrop Hwy to FM 1984

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (1 LANE)	
b. TYPICAL SECTION:	BV 110-50	
c. PROJECT LENGTH =	1.738	MILES
d. NOMINAL ROW WIDTH =	110	FEET
e. BRIDGE LENGTH =	200.000	FT
f. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
g. EXISTING PAVEMENT WIDTH =	48	FEET
h. NOMINAL PAVEMENT WIDENING =	62	FEET
i. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
j. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 4-5 LANES	
k. EDWARDS AQUIFER/WATER QUALITY ZONE?	No	
l. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
m. NUMBER OF SIGNALIZED INTERSECTIONS	2	
n. NUMBER OF MONTHS FOR CONSTRUCTION	12	
o. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	92	STA	\$ 2,326.71	\$ 214,057
b.	EXCAVATION	20,511	CY	\$ 16.34	\$ 335,060
c.	EMBANKMENT	10,256	CY	\$ 15.97	\$ 163,776
d.	HMAC PAVEMENT (ROADWAY)	61,847	SY	\$ 76.32	\$ 4,720,423
e.	MILL AND OVERLAY COST	47,882	SY	\$ 16.15	\$ 773,292
f.	DRAINAGE SYSTEMS	1.738	LS/MI	\$ 180,400.00	\$ 313,577
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ -	\$ -
h.	ILLUMINATION (ROADWAY)	2	LS/MI	\$ 360,000.00	\$ 625,762
i.	ILLUMINATION (DECORATIVE)	3	LS/MI	\$ 219,000.00	\$ 761,344
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI	\$ -	\$ 236,021.14
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%		\$ -	\$ 189,183.82
l.	SIDEWALK/SHARED USE PATH	14,277	SY	\$ 54.99	\$ 785,119.35
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%		\$ -	\$ 315,306.36
n.	CURB AND GUTTER	73,423	LF	\$ 16.30	\$ 1,196,664
o.	CYCLE TRACK PAVEMENT	14,277	SY	\$ 44.73	\$ 638,630
p.	SIGNALIZATION	2	EA	\$ 250,000	\$ 500,000
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	2	LS/MI	\$ 80,000.00	\$ 139,058
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	12800	SF	\$ 90.00	\$ 1,152,000.00
SUBTOTAL					\$ 13,204,020
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 1,320,402.03
	ENGINEERING AND DESIGN	15%			\$ 1,980,603.05
	CONSTRUCTION CONTINGENCY	10%			\$ 1,320,402.03
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 1,584,482.44
SUBTOTAL					\$ 6,205,889.56
MASTER CONTINGENCY					30%
					\$ 5,822,972.97
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 25,232,882.85
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		112,174	SY	\$ 7.00	\$ 785,391.90
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 53,161,878.44
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 1,654,702.27

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ESTIMATED CONSTRUCTION COST TEMPLATE

B-19

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Post Rd

PROJECT LIMITS:

Aquarena Springs to Proposed Craddock

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (2 LANE)	
b. TYPICAL SECTION:	BV 100-50	
c. PROJECT LENGTH =	1.841	MILES
d. NOMINAL ROW WIDTH =	100	FEET
e. BRIDGE LENGTH =	0.000	FT
f. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
g. EXISTING PAVEMENT WIDTH =	46	FEET
h. NOMINAL PAVEMENT WIDENING =	54	FEET
i. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
j. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 4-5 LANES	
k. EDWARDS AQUIFER/WATER QUALITY ZONE?	Yes	
l. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
m. NUMBER OF SIGNALIZED INTERSECTIONS	2	
n. NUMBER OF MONTHS FOR CONSTRUCTION	12	
o. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	98	STA	\$ 2,326.71	\$ 228,017
b.	EXCAVATION	30,376	CY	\$ 16.34	\$ 496,211
c.	EMBANKMENT	15,280	CY	\$ 15.97	\$ 244,015
d.	HMAC PAVEMENT (ROADWAY)	58,322	SY	\$ 76.32	\$ 4,451,364
e.	MILL AND OVERLAY COST	49,682	SY	\$ 16.15	\$ 802,362
f.	DRAINAGE SYSTEMS	1.841	LS/MI	\$ 180,400.00	\$ 332,112
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ 36,080.00	\$ 66,422
h.	ILLUMINATION (ROADWAY)	-	LS/MI	\$ 360,000.00	\$ -
i.	ILLUMINATION (DECORATIVE)	4	LS/MI	\$ 219,000.00	\$ 806,348
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI		\$ 222,568.18
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%			\$ 191,774.59
l.	SIDEWALK/SHARED USE PATH	18,361	SY	\$ 54.99	\$ 1,009,713.27
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%			\$ 319,624.32
n.	CURB AND GUTTER	38,881	LF	\$ 16.30	\$ 633,700
o.	CYCLE TRACK PAVEMENT	-	SY	\$ 44.73	\$ -
p.	SIGNALIZATION	2	EA	\$ 250,000	\$ 500,000
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	2	LS/MI	\$ 80,000.00	\$ 147,278
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 10,596,257
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 1,059,625.69
	ENGINEERING AND DESIGN	15%			\$ 1,589,438.53
	CONSTRUCTION CONTINGENCY	10%			\$ 1,059,625.69
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 1,271,550.83
SUBTOTAL					\$ 4,980,240.74
MASTER CONTINGENCY					30%
					\$ 4,672,949.29
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 20,249,446.92
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		108,004	SY	\$ 7.00	\$ 756,197.48
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 42,662,530.56
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 1,593,194.04

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ESTIMATED CONSTRUCTION COST TEMPLATE

B-20

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Iris St

PROJECT LIMITS:

Beginning of Iris Street to End of Iris Street

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (2 LANE)	
b. TYPICAL SECTION:	BV 110-50	
c. PROJECT LENGTH =	0.128	MILES
d. NOMINAL ROW WIDTH =	110	FEET
d. BRIDGE LENGTH =	0.000	FT
e. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
f. EXISTING PAVEMENT WIDTH =	22	FEET
g. NOMINAL PAVEMENT WIDENING =	88	FEET
h. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
i. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 4-5 LANES	
j. EDWARDS AQUIFER/WATER QUALITY ZONE?	Yes	
k. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
l. NUMBER OF SIGNALIZED INTERSECTIONS	0	
m. NUMBER OF MONTHS FOR CONSTRUCTION	12	
n. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	7	STA	\$ 2,326.71	\$ 16,287
b.	EXCAVATION	2,109	CY	\$ 16.34	\$ 34,450
c.	EMBANKMENT	1,061	CY	\$ 15.97	\$ 16,941
d.	HMAC PAVEMENT (ROADWAY)	6,598	SY	\$ 76.32	\$ 503,618
e.	MILL AND OVERLAY COST	1,650	SY	\$ 16.15	\$ 26,641
f.	DRAINAGE SYSTEMS	0.128	LS/MI	\$ 180,400.00	\$ 23,057
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ 36,080.00	\$ 4,611
h.	ILLUMINATION (ROADWAY)	0	LS/MI	\$ 360,000.00	\$ 46,012
i.	ILLUMINATION (DECORATIVE)	0	LS/MI	\$ 219,000.00	\$ 55,981
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI		\$ 25,180.91
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%			\$ 18,279.55
l.	SIDEWALK/SHARED USE PATH	1,050	SY	\$ 54.99	\$ 57,729.33
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%			\$ 30,465.92
n.	CURB AND GUTTER	5,399	LF	\$ 16.30	\$ 87,990
o.	CYCLE TRACK PAVEMENT	1,050	SY	\$ 44.73	\$ 46,958
p.	SIGNALIZATION	-	EA	\$250,000	\$ -
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	0	LS/MI	\$ 80,000.00	\$ 10,225
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 1,149,174
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 114,917.37
	ENGINEERING AND DESIGN	15%			\$ 172,376.05
	CONSTRUCTION CONTINGENCY	10%			\$ 114,917.37
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 137,900.84
SUBTOTAL					\$ 540,111.62
MASTER CONTINGENCY					30%
					\$ 506,785.59
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 2,196,070.87
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		8,248	SY	\$ 7.00	\$ 57,749.37
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					\$ 4,626,790.11
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 121,669.22

This estimate represents our engineering judgment as professionals knowledgeable with the construction of similar projects.
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ESTIMATED CONSTRUCTION COST TEMPLATE

B-21

Transportation Master Plan
City of San Marcos

PROJECT NAME:

River Ridge

PROJECT LIMITS:

End of Iris Street to End of River Ridge Pkwy

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (2 LANE)	
b. TYPICAL SECTION:	BV 110-50	
c. PROJECT LENGTH =	0.520	MILES
d. NOMINAL ROW WIDTH =	110	FEET
d. BRIDGE LENGTH =	0.000	FT
e. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
f. EXISTING PAVEMENT WIDTH =	24	FEET
g. NOMINAL PAVEMENT WIDENING =	86	FEET
h. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
i. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 4-5 LANES	
j. EDWARDS AQUIFER/WATER QUALITY ZONE?	No	
k. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
l. NUMBER OF SIGNALIZED INTERSECTIONS	0	
m. NUMBER OF MONTHS FOR CONSTRUCTION	12	
n. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	28	STA	\$ 2,326.71	\$ 65,148
b.	EXCAVATION	8,574	CY	\$ 16.34	\$ 140,064
c.	EMBANKMENT	4,313	CY	\$ 15.97	\$ 68,877
d.	HMAC PAVEMENT (ROADWAY)	26,218	SY	\$ 76.32	\$ 2,001,043
e.	MILL AND OVERLAY COST	7,317	SY	\$ 16.15	\$ 118,163
f.	DRAINAGE SYSTEMS	0.520	LS/MI	\$ 180,400.00	\$ 93,744
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ -	\$ -
h.	ILLUMINATION (ROADWAY)	1	LS/MI	\$ 360,000.00	\$ 187,072
i.	ILLUMINATION (DECORATIVE)	1	LS/MI	\$ 219,000.00	\$ 227,605
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI	\$ -	\$ 100,052.17
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%		\$ -	\$ 72,656.74
l.	SIDEWALK/SHARED USE PATH	4,268	SY	\$ 54.99	\$ 234,712.34
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%		\$ -	\$ 121,094.57
n.	CURB AND GUTTER	21,950	LF	\$ 16.30	\$ 357,744
o.	CYCLE TRACK PAVEMENT	4,268	SY	\$ 44.73	\$ 190,919
p.	SIGNALIZATION	-	EA	\$ 250,000	\$ -
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	1	LS/MI	\$ 80,000.00	\$ 41,572
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 4,165,214
III. OTHER ITEMS					
	MOBILIZATION	10%		\$	416,521.37
	ENGINEERING AND DESIGN	15%		\$	624,782.05
	CONSTRUCTION CONTINGENCY	10%		\$	416,521.37
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%		\$	499,825.64
SUBTOTAL					\$ 1,957,650.44
MASTER CONTINGENCY					30%
					\$ 1,836,859.24
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 7,959,723.38
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		33,534	SY	\$ 7.00	\$ 234,793.82
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					\$ 16,769,936.64
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%		\$	494,675.17

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ESTIMATED CONSTRUCTION COST TEMPLATE

B-22.1

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Centerpoint Rd

PROJECT LIMITS:

Hunter Rd/FM 2439 to Old Bastrop Hwy

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (2 LANE)	
b. TYPICAL SECTION:	BV 115-71	
c. PROJECT LENGTH =	2.106	MILES
d. NOMINAL ROW WIDTH =	115	FEET
d. BRIDGE LENGTH =	600.000	FT
e. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
f. EXISTING PAVEMENT WIDTH =	40	FEET
g. NOMINAL PAVEMENT WIDENING =	75	FEET
h. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
i. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 4-5 LANES	
j. EDWARDS AQUIFER/WATER QUALITY ZONE?	Yes	
k. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
l. NUMBER OF SIGNALIZED INTERSECTIONS	3	
m. NUMBER OF MONTHS FOR CONSTRUCTION	12	
n. YEARS OF MAINTAINENCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	112	STA	\$ 2,326.71	\$ 260,591
b.	EXCAVATION	34,752	CY	\$ 16.34	\$ 567,686
c.	EMBANKMENT	17,481	CY	\$ 15.97	\$ 279,163
d.	HMAC PAVEMENT (ROADWAY)	87,671	SY	\$ 76.32	\$ 6,691,359
e.	MILL AND OVERLAY COST	46,758	SY	\$ 16.15	\$ 755,138
f.	DRAINAGE SYSTEMS	2.106	LS/MI	\$ 180,400.00	\$ 379,950
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ 36,080.00	\$ 75,990
h.	ILLUMINATION (ROADWAY)	2	LS/MI	\$ 360,000.00	\$ 758,216
i.	ILLUMINATION (DECORATIVE)	4	LS/MI	\$ 219,000.00	\$ 922,496
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI		\$ 334,567.97
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%			\$ 262,478.60
l.	SIDEWALK/SHARED USE PATH	17,299	SY	\$ 54.99	\$ 951,303.08
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%			\$ 437,464.34
n.	CURB AND GUTTER	44,482	LF	\$ 16.30	\$ 724,979
o.	CYCLE TRACK PAVEMENT	19,770	SY	\$ 44.73	\$ 884,351
p.	SIGNALIZATION	3	EA	\$ 250,000	\$ 750,000
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	2	LS/MI	\$ 80,000.00	\$ 168,492
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	46200	SF	\$ 90.00	\$ 4,158,000.00
SUBTOTAL					\$ 19,506,972
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 1,950,697.15
	ENGINEERING AND DESIGN	15%			\$ 2,926,045.73
	CONSTRUCTION CONTINGENCY	10%			\$ 1,950,697.15
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 2,340,836.58
SUBTOTAL					\$ 9,168,276.61
MASTER CONTINGENCY					\$ 8,602,574.44
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 37,277,822.57
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		142,095	SY	\$ 7.00	\$ 994,889.36
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					\$ 78,538,749.77
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 2,096,081.84

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ESTIMATED CONSTRUCTION COST TEMPLATE

B-23

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Old Bastrop Hwy

PROJECT LIMITS:

SH 123 to Mr Pete Rd

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (2 LANE)	
b. TYPICAL SECTION:	BV 115-71	
c. PROJECT LENGTH =	1.263	MILES
d. NOMINAL ROW WIDTH =	115	FEET
d. BRIDGE LENGTH =	0.000	FT
e. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
f. EXISTING PAVEMENT WIDTH =	28	FEET
g. NOMINAL PAVEMENT WIDENING =	87	FEET
h. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
i. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 4-5 LANES	
j. EDWARDS AQUIFER/WATER QUALITY ZONE?	No	
k. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
l. NUMBER OF SIGNALIZED INTERSECTIONS	0	
m. NUMBER OF MONTHS FOR CONSTRUCTION	12	
n. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	67	STA	\$ 2,326.71	\$ 155,889
b.	EXCAVATION	20,832	CY	\$ 16.34	\$ 340,295
c.	EMBANKMENT	10,479	CY	\$ 15.97	\$ 167,342
d.	HMAC PAVEMENT (ROADWAY)	64,439	SY	\$ 76.32	\$ 4,918,222
e.	MILL AND OVERLAY COST	20,739	SY	\$ 16.15	\$ 334,935
f.	DRAINAGE SYSTEMS	1.263	LS/MI	\$ 180,400.00	\$ 227,759
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ -	\$ -
h.	ILLUMINATION (ROADWAY)	1	LS/MI	\$ 360,000.00	\$ 454,507
i.	ILLUMINATION (DECORATIVE)	3	LS/MI	\$ 219,000.00	\$ 552,984
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI	\$ -	\$ 245,911.12
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%		\$ -	\$ 179,656.60
l.	SIDEWALK/SHARED USE PATH	10,369	SY	\$ 54.99	\$ 570,251.95
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%		\$ -	\$ 299,427.67
n.	CURB AND GUTTER	26,664	LF	\$ 16.30	\$ 434,584
o.	CYCLE TRACK PAVEMENT	11,851	SY	\$ 44.73	\$ 530,118
p.	SIGNALIZATION	-	EA	\$ 250,000	\$ -
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	1	LS/MI	\$ 80,000.00	\$ 101,002
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 9,657,630
III. OTHER ITEMS					
	MOBILIZATION	10%		\$ -	\$ 965,763.01
	ENGINEERING AND DESIGN	15%		\$ -	\$ 1,448,644.51
	CONSTRUCTION CONTINGENCY	10%		\$ -	\$ 965,763.01
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%		\$ -	\$ 1,158,915.61
SUBTOTAL					\$ 4,539,086.14
MASTER CONTINGENCY					30%
					\$ 4,259,014.87
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 18,455,731.11
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)		85,178	SY	\$ 7.00	\$ 596,379.45
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 38,883,441.88
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 1,256,481.55

ESTIMATED CONSTRUCTION COST TEMPLATE

B-24.1

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Old Bastrop Hwy

PROJECT LIMITS:

Mr Pete Rd to Posey Rd

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (2 LANE)	
b. TYPICAL SECTION:	BV 110-50	
c. PROJECT LENGTH =	1.724	MILES
d. NOMINAL ROW WIDTH =	110	FEET
e. BRIDGE LENGTH =	0.000	FT
f. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
g. EXISTING PAVEMENT WIDTH =	22	FEET
h. NOMINAL PAVEMENT WIDENING =	88	FEET
i. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
j. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 4-5 LANES	
k. EDWARDS AQUIFER/WATER QUALITY ZONE?	No	
l. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
m. NUMBER OF SIGNALIZED INTERSECTIONS	0	
n. NUMBER OF MONTHS FOR CONSTRUCTION	12	
o. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	92	STA	\$ 2,326.71	\$ 214,057
b.	EXCAVATION	28,449	CY	\$ 16.34	\$ 464,738
c.	EMBANKMENT	14,311	CY	\$ 15.97	\$ 228,538
d.	HMAC PAVEMENT (ROADWAY)	89,015	SY	\$ 76.32	\$ 6,793,968
e.	MILL AND OVERLAY COST	22,254	SY	\$ 16.15	\$ 359,399
f.	DRAINAGE SYSTEMS	1.724	LS/MI	\$ 180,400.00	\$ 311,047
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ -	\$ -
h.	ILLUMINATION (ROADWAY)	2	LS/MI	\$ 360,000.00	\$ 620,715
i.	ILLUMINATION (DECORATIVE)	3	LS/MI	\$ 219,000.00	\$ 755,204
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI		\$ 339,698.41
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%			\$ 244,730.70
l.	SIDEWALK/SHARED USE PATH	14,162	SY	\$ 54.99	\$ 778,787.01
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%			\$ 407,884.50
n.	CURB AND GUTTER	72,831	LF	\$ 16.30	\$ 1,187,012
o.	CYCLE TRACK PAVEMENT	14,162	SY	\$ 44.73	\$ 633,479
p.	SIGNALIZATION	-	EA	\$ 250,000	\$ -
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	2	LS/MI	\$ 80,000.00	\$ 137,937
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 13,621,941
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 1,362,194.13
	ENGINEERING AND DESIGN	15%			\$ 2,043,291.20
	CONSTRUCTION CONTINGENCY	10%			\$ 1,362,194.13
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 1,634,632.96
SUBTOTAL					\$ 6,402,312.42
MASTER CONTINGENCY					30%
					\$ 6,007,276.12
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 26,031,529.87
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		111,269	SY	\$ 7.00	\$ 779,057.36
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 54,844,507.25
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 1,641,356.35

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ESTIMATED CONSTRUCTION COST TEMPLATE

B-25

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Harris Hill Rd

PROJECT LIMITS:

Highway 21 to Curve of Harris Hill Rd

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (2 LANE)	
b. TYPICAL SECTION:	BV 100-50	
c. PROJECT LENGTH =	1.061	MILES
d. NOMINAL ROW WIDTH =	100	FEET
d. BRIDGE LENGTH =	0.000	FT
e. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
f. EXISTING PAVEMENT WIDTH =	22	FEET
g. NOMINAL PAVEMENT WIDENING =	78	FEET
h. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
i. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 4-5 LANES	
j. EDWARDS AQUIFER/WATER QUALITY ZONE?	No	
k. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
l. NUMBER OF SIGNALIZED INTERSECTIONS	0	
m. NUMBER OF MONTHS FOR CONSTRUCTION	12	
n. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	56	STA	\$ 2,326.71	\$ 130,296
b.	EXCAVATION	17,499	CY	\$ 16.34	\$ 285,848
c.	EMBANKMENT	8,802	CY	\$ 15.97	\$ 140,568
d.	HMAC PAVEMENT (ROADWAY)	48,529	SY	\$ 76.32	\$ 3,703,933
e.	MILL AND OVERLAY COST	13,688	SY	\$ 16.15	\$ 221,057
f.	DRAINAGE SYSTEMS	1.061	LS/MI	\$ 180,400.00	\$ 191,317
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ -	\$ -
h.	ILLUMINATION (ROADWAY)	-	LS/MI	\$ 360,000.00	\$ -
i.	ILLUMINATION (DECORATIVE)	2	LS/MI	\$ 219,000.00	\$ 464,507
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI		\$ 185,196.67
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%			\$ 136,281.72
l.	SIDEWALK/SHARED USE PATH	10,577	SY	\$ 54.99	\$ 581,657.48
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%			\$ 227,136.20
n.	CURB AND GUTTER	22,398	LF	\$ 16.30	\$ 365,050
o.	CYCLE TRACK PAVEMENT	-	SY	\$ 44.73	\$ -
p.	SIGNALIZATION	-	EA	\$ 250,000	\$ -
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	1	LS/MI	\$ 80,000.00	\$ 84,841
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 6,862,437
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 686,243.65
	ENGINEERING AND DESIGN	15%			\$ 1,029,365.48
	CONSTRUCTION CONTINGENCY	10%			\$ 686,243.65
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 823,492.38
SUBTOTAL					\$ 3,225,345.16
MASTER CONTINGENCY					30%
					\$ 3,026,334.50
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 13,114,116.17
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		62,217	SY	\$ 7.00	\$ 435,616.66
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 27,629,464.85
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 917,778.59

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ESTIMATED CONSTRUCTION COST TEMPLATE

B-26

Transportation Master Plan
City of San Marcos

PROJECT NAME:

SH 123

PROJECT LIMITS:

Wonder World Dr to City Limits

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (1 LANE)	
b. TYPICAL SECTION:	BV 115-71	
c. PROJECT LENGTH =	2.298	MILES
d. NOMINAL ROW WIDTH =	115	FEET
d. BRIDGE LENGTH =	0.000	FT
e. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
f. EXISTING PAVEMENT WIDTH =	48	FEET
g. NOMINAL PAVEMENT WIDENING =	67	FEET
h. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
i. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 4-5 LANES	
j. EDWARDS AQUIFER/WATER QUALITY ZONE?	No	
k. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
l. NUMBER OF SIGNALIZED INTERSECTIONS	7	
m. NUMBER OF MONTHS FOR CONSTRUCTION	12	
n. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	122	STA	\$ 2,326.71	\$ 283,858
b.	EXCAVATION	27,117	CY	\$ 16.34	\$ 442,969
c.	EMBANKMENT	13,558	CY	\$ 15.97	\$ 216,521
d.	HMAC PAVEMENT (ROADWAY)	90,328	SY	\$ 76.32	\$ 6,894,188
e.	MILL AND OVERLAY COST	64,713	SY	\$ 16.15	\$ 1,045,112
f.	DRAINAGE SYSTEMS	2.298	LS/MI	\$ 180,400.00	\$ 414,566
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ -	\$ -
h.	ILLUMINATION (ROADWAY)	2	LS/MI	\$ 360,000.00	\$ 827,294
i.	ILLUMINATION (DECORATIVE)	5	LS/MI	\$ 219,000.00	\$ 1,006,541
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI	\$ -	\$ 344,709.40
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%		\$ -	\$ 270,400.67
l.	SIDEWALK/SHARED USE PATH	18,875	SY	\$ 54.99	\$ 1,037,973.30
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%		\$ -	\$ 450,667.79
n.	CURB AND GUTTER	48,535	LF	\$ 16.30	\$ 791,029
o.	CYCLE TRACK PAVEMENT	21,571	SY	\$ 44.73	\$ 964,921
p.	SIGNALIZATION	7	EA	\$ 250,000	\$ 1,750,000
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	2	LS/MI	\$ 80,000.00	\$ 183,843
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 17,069,341
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 1,706,934.08
	ENGINEERING AND DESIGN	15%			\$ 2,560,401.12
	CONSTRUCTION CONTINGENCY	10%			\$ 1,706,934.08
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 2,048,320.90
SUBTOTAL					\$ 8,022,590.19
MASTER CONTINGENCY					30%
					\$ 7,527,579.31
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 32,619,510.33
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		155,041	SY	\$ 7.00	\$ 1,085,530.59
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					\$ 68,724,388.47
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 2,287,049.24

This estimate represents our engineering judgment as professionals knowledgeable with the construction of similar projects.
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ESTIMATED CONSTRUCTION COST TEMPLATE

B-26.1

Transportation Master Plan
City of San Marcos

PROJECT NAME:

SH 123

PROJECT LIMITS:

Broadway St to Wonder World Dr

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (1 LANE)	
b. TYPICAL SECTION:	BV 115-71	
c. PROJECT LENGTH =	0.932	MILES
d. NOMINAL ROW WIDTH =	115	FEET
e. BRIDGE LENGTH =	0.000	FT
f. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
g. EXISTING PAVEMENT WIDTH =	48	FEET
h. NOMINAL PAVEMENT WIDENING =	67	FEET
i. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
j. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 4-5 LANES	
k. EDWARDS AQUIFER/WATER QUALITY ZONE?	No	
l. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
m. NUMBER OF SIGNALIZED INTERSECTIONS	7	
n. NUMBER OF MONTHS FOR CONSTRUCTION	12	
o. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	50	STA	\$ 2,326.71	\$ 116,335
b.	EXCAVATION	10,994	CY	\$ 16.34	\$ 179,601
c.	EMBANKMENT	5,497	CY	\$ 15.97	\$ 87,788
d.	HMAC PAVEMENT (ROADWAY)	36,623	SY	\$ 76.32	\$ 2,795,235
e.	MILL AND OVERLAY COST	26,238	SY	\$ 16.15	\$ 423,738
f.	DRAINAGE SYSTEMS	0.932	LS/MI	\$ 180,400.00	\$ 168,085
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ -	\$ -
h.	ILLUMINATION (ROADWAY)	1	LS/MI	\$ 360,000.00	\$ 335,425
i.	ILLUMINATION (DECORATIVE)	2	LS/MI	\$ 219,000.00	\$ 408,100
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI	\$ -	\$ 139,761.75
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%		\$ -	\$ 109,633.43
l.	SIDEWALK/SHARED USE PATH	7,653	SY	\$ 54.99	\$ 420,844.25
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%		\$ -	\$ 182,722.38
n.	CURB AND GUTTER	19,678	LF	\$ 16.30	\$ 320,721
o.	CYCLE TRACK PAVEMENT	8,746	SY	\$ 44.73	\$ 391,225
p.	SIGNALIZATION	7	EA	\$ 250,000	\$ 1,750,000
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	1	LS/MI	\$ 80,000.00	\$ 74,539
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 8,048,502
III. OTHER ITEMS					
	MOBILIZATION	10%		\$	804,850.19
	ENGINEERING AND DESIGN	15%		\$	1,207,275.28
	CONSTRUCTION CONTINGENCY	10%		\$	804,850.19
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%		\$	965,820.22
SUBTOTAL					\$ 3,782,795.88
MASTER CONTINGENCY					30%
					\$ 3,549,389.33
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 15,380,687.08
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		62,861	SY	\$ 7.00	\$ 440,126.27
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					\$ 32,404,787.90
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%		\$	927,279.67

This estimate represents our engineering judgment as professionals knowledgeable with the construction of similar projects.
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ESTIMATED CONSTRUCTION COST TEMPLATE

B-27

Transportation Master Plan
City of San Marcos

PROJECT NAME:

SH 123

PROJECT LIMITS:

IH 35 NBFR to Broadway St

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (1 LANE)	
b. TYPICAL SECTION:	BV 110-50	
c. PROJECT LENGTH =	0.701	MILES
d. NOMINAL ROW WIDTH =	110	FEET
e. BRIDGE LENGTH =	0.000	FT
f. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
g. EXISTING PAVEMENT WIDTH =	48	FEET
h. NOMINAL PAVEMENT WIDENING =	62	FEET
i. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
j. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 4-5 LANES	
k. EDWARDS AQUIFER/WATER QUALITY ZONE?	No	
l. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
m. NUMBER OF SIGNALIZED INTERSECTIONS	3	
n. NUMBER OF MONTHS FOR CONSTRUCTION	12	
o. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	38	STA	\$ 2,326.71	\$ 88,415
b.	EXCAVATION	8,276	CY	\$ 16.34	\$ 135,191
c.	EMBANKMENT	4,138	CY	\$ 15.97	\$ 66,081
d.	HMAC PAVEMENT (ROADWAY)	25,510	SY	\$ 76.32	\$ 1,947,043
e.	MILL AND OVERLAY COST	19,750	SY	\$ 16.15	\$ 318,961
f.	DRAINAGE SYSTEMS	0.701	LS/MI	\$ 180,400.00	\$ 126,523
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ -	\$ -
h.	ILLUMINATION (ROADWAY)	1	LS/MI	\$ 360,000.00	\$ 252,485
i.	ILLUMINATION (DECORATIVE)	1	LS/MI	\$ 219,000.00	\$ 307,190
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI	\$ 97,352.15	\$ 97,352.15
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%		\$ 77,813.99	\$ 77,813.99
l.	SIDEWALK/SHARED USE PATH	5,760	SY	\$ 54.99	\$ 316,782.89
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%		\$ 129,689.98	\$ 129,689.98
n.	CURB AND GUTTER	29,625	LF	\$ 16.30	\$ 482,834
o.	CYCLE TRACK PAVEMENT	5,760	SY	\$ 44.73	\$ 257,677
p.	SIGNALIZATION	3	EA	\$ 250,000	\$ 750,000
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	1	LS/MI	\$ 80,000.00	\$ 56,108
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 5,554,894
III. OTHER ITEMS					
	MOBILIZATION	10%		\$ 555,489.40	\$ 555,489.40
	ENGINEERING AND DESIGN	15%		\$ 833,234.10	\$ 833,234.10
	CONSTRUCTION CONTINGENCY	10%		\$ 555,489.40	\$ 555,489.40
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%		\$ 666,587.28	\$ 666,587.28
SUBTOTAL					\$ 2,610,800.19
MASTER CONTINGENCY					30%
					\$ 2,449,708.27
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 10,615,402.49
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		45,260	SY	\$ 7.00	\$ 316,892.86
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 22,365,051.98
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 667,645.45

This estimate represents our engineering judgment as professionals knowledgeable with the construction of similar projects.
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ESTIMATED CONSTRUCTION COST TEMPLATE

B-28

Transportation Master Plan
City of San Marcos

PROJECT NAME:

SH 123

PROJECT LIMITS:

City Limits to End

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (1 LANE)	
b. TYPICAL SECTION:	BV 110-50	
c. PROJECT LENGTH =	5.682	MILES
d. NOMINAL ROW WIDTH =	110	FEET
e. BRIDGE LENGTH =	0.000	FT
f. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
g. EXISTING PAVEMENT WIDTH =	44	FEET
h. NOMINAL PAVEMENT WIDENING =	66	FEET
i. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
j. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 4-5 LANES	
k. EDWARDS AQUIFER/WATER QUALITY ZONE?	No	
l. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
m. NUMBER OF SIGNALIZED INTERSECTIONS	1	
n. NUMBER OF MONTHS FOR CONSTRUCTION	12	
o. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	301	STA	\$ 2,326.71	\$ 700,339
b.	EXCAVATION	67,053	CY	\$ 16.34	\$ 1,095,344
c.	EMBANKMENT	33,526	CY	\$ 15.97	\$ 535,397
d.	HMAC PAVEMENT (ROADWAY)	220,024	SY	\$ 76.32	\$ 16,793,030
e.	MILL AND OVERLAY COST	146,683	SY	\$ 16.15	\$ 2,368,923
f.	DRAINAGE SYSTEMS	5.682	LS/MI	\$ 180,400.00	\$ 1,025,111
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ -	\$ -
h.	ILLUMINATION (ROADWAY)	6	LS/MI	\$ 360,000.00	\$ 2,045,676
i.	ILLUMINATION (DECORATIVE)	11	LS/MI	\$ 219,000.00	\$ 2,488,906
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI	\$ -	\$ 839,651.51
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%			\$ 654,534.15
l.	SIDEWALK/SHARED USE PATH	46,672	SY	\$ 54.99	\$ 2,566,628.44
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%			\$ 1,090,890.26
n.	CURB AND GUTTER	240,026	LF	\$ 16.30	\$ 3,912,006
o.	CYCLE TRACK PAVEMENT	46,672	SY	\$ 44.73	\$ 2,087,741
p.	SIGNALIZATION	1	EA	\$ 250,000	\$ 250,000
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	6	LS/MI	\$ 80,000.00	\$ 454,595
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 39,053,517
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 3,905,351.74
	ENGINEERING AND DESIGN	15%			\$ 5,858,027.62
	CONSTRUCTION CONTINGENCY	10%			\$ 3,905,351.74
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 4,686,422.09
SUBTOTAL					\$ 18,355,153.20
MASTER CONTINGENCY					30%
					\$ 17,222,601.20
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 74,631,271.85
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		366,706	SY	\$ 7.00	\$ 2,567,519.40
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 157,236,833.59
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 5,409,376.14

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ESTIMATED CONSTRUCTION COST TEMPLATE

B-29.1

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Wonder World/Redwood

PROJECT LIMITS:

Stagecoach Trl to SH 123

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (1 LANE)	
b. TYPICAL SECTION:	BV 115-71	
c. PROJECT LENGTH =	1.562	MILES
d. NOMINAL ROW WIDTH =	115	FEET
e. BRIDGE LENGTH =	0.000	FT
f. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
g. EXISTING PAVEMENT WIDTH =	62	FEET
h. NOMINAL PAVEMENT WIDENING =	53	FEET
i. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
j. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 4-5 LANES	
k. EDWARDS AQUIFER/WATER QUALITY ZONE?	Yes	
l. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
m. NUMBER OF SIGNALIZED INTERSECTIONS	5	
n. NUMBER OF MONTHS FOR CONSTRUCTION	12	
o. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	83	STA	\$ 2,326.71	\$ 193,117
b.	EXCAVATION	18,432	CY	\$ 16.34	\$ 301,102
c.	EMBANKMENT	9,216	CY	\$ 15.97	\$ 147,177
d.	HMAC PAVEMENT (ROADWAY)	48,570	SY	\$ 76.32	\$ 3,707,012
e.	MILL AND OVERLAY COST	56,817	SY	\$ 16.15	\$ 917,599
f.	DRAINAGE SYSTEMS	1.562	LS/MI	\$ 180,400.00	\$ 281,795
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ 36,080.00	\$ 56,359
h.	ILLUMINATION (ROADWAY)	2	LS/MI	\$ 360,000.00	\$ 562,341
i.	ILLUMINATION (DECORATIVE)	3	LS/MI	\$ 219,000.00	\$ 684,182
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI		\$ 185,350.59
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%			\$ 162,331.32
l.	SIDEWALK/SHARED USE PATH	12,830	SY	\$ 54.99	\$ 705,547.04
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%			\$ 270,552.19
n.	CURB AND GUTTER	32,991	LF	\$ 16.30	\$ 537,691
o.	CYCLE TRACK PAVEMENT	14,663	SY	\$ 44.73	\$ 655,891
p.	SIGNALIZATION	5	EA	\$ 250,000	\$ 1,250,000
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	2	LS/MI	\$ 80,000.00	\$ 124,965
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 10,887,757
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 1,088,775.70
	ENGINEERING AND DESIGN	15%			\$ 1,633,163.55
	CONSTRUCTION CONTINGENCY	10%			\$ 1,088,775.70
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 1,306,530.84
SUBTOTAL					\$ 5,117,245.78
MASTER CONTINGENCY					30%
					\$ 4,801,500.83
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 20,806,503.58
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		105,387	SY	\$ 7.00	\$ 737,873.42
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 43,836,164.92
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 1,554,588.00

This estimate represents our engineering judgment as professionals knowledgeable with the construction of similar projects.
This estimate is for planning and programming purposes only and does not guarantee what actual construction costs will be.

ESTIMATED CONSTRUCTION COST TEMPLATE

B-29.2

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Wonder World/Redwood

PROJECT LIMITS:

FM 110 Extension to SH 123

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (1 LANE)	
b. TYPICAL SECTION:	BV 115-71	
c. PROJECT LENGTH =	1.417	MILES
d. NOMINAL ROW WIDTH =	115	FEET
e. BRIDGE LENGTH =	0.000	FT
f. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
g. EXISTING PAVEMENT WIDTH =	40	FEET
h. NOMINAL PAVEMENT WIDENING =	75	FEET
i. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
j. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 4-5 LANES	
k. EDWARDS AQUIFER/WATER QUALITY ZONE?	No	
l. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
m. NUMBER OF SIGNALIZED INTERSECTIONS	1	
n. NUMBER OF MONTHS FOR CONSTRUCTION	12	
o. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	75	STA	\$ 2,326.71	\$ 174,503
b.	EXCAVATION	16,719	CY	\$ 16.34	\$ 273,113
c.	EMBANKMENT	8,359	CY	\$ 15.97	\$ 133,496
d.	HMAC PAVEMENT (ROADWAY)	62,342	SY	\$ 76.32	\$ 4,758,149
e.	MILL AND OVERLAY COST	33,249	SY	\$ 16.15	\$ 536,970
f.	DRAINAGE SYSTEMS	1.417	LS/MI	\$ 180,400.00	\$ 255,601
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ -	\$ -
h.	ILLUMINATION (ROADWAY)	1	LS/MI	\$ 360,000.00	\$ 510,068
i.	ILLUMINATION (DECORATIVE)	3	LS/MI	\$ 219,000.00	\$ 620,583
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI		\$ 237,907.45
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%			\$ 178,719.86
l.	SIDEWALK/SHARED USE PATH	11,637	SY	\$ 54.99	\$ 639,962.68
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%			\$ 297,866.43
n.	CURB AND GUTTER	29,924	LF	\$ 16.30	\$ 487,709
o.	CYCLE TRACK PAVEMENT	13,300	SY	\$ 44.73	\$ 594,922
p.	SIGNALIZATION	1	EA	\$ 250,000	\$ 250,000
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	1	LS/MI	\$ 80,000.00	\$ 113,349
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 10,207,667
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 1,020,766.65
	ENGINEERING AND DESIGN	15%			\$ 1,531,149.98
	CONSTRUCTION CONTINGENCY	10%			\$ 1,020,766.65
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 1,224,919.98
SUBTOTAL					\$ 4,797,603.26
MASTER CONTINGENCY					30%
					\$ 4,501,580.93
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 19,506,850.69
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		95,591	SY	\$ 7.00	\$ 669,284.15
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 41,097,992.31
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 1,410,080.75

This estimate represents our engineering judgment as professionals knowledgeable with the construction of similar projects.
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ESTIMATED CONSTRUCTION COST TEMPLATE

B-31

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Crystal River Pkwy

PROJECT LIMITS:

Staples Rd to End of Crystal River Pkwy

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (2 LANE)	
b. TYPICAL SECTION:	BV 115-71	
c. PROJECT LENGTH =	0.317	MILES
d. NOMINAL ROW WIDTH =	115	FEET
e. BRIDGE LENGTH =	0.000	FT
f. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
g. EXISTING PAVEMENT WIDTH =	24	FEET
h. NOMINAL PAVEMENT WIDENING =	91	FEET
i. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
j. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 4-5 LANES	
k. EDWARDS AQUIFER/WATER QUALITY ZONE?	No	
l. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
m. NUMBER OF SIGNALIZED INTERSECTIONS	0	
n. NUMBER OF MONTHS FOR CONSTRUCTION	12	
o. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	17	STA	\$ 2,326.71	\$ 39,554
b.	EXCAVATION	5,232	CY	\$ 16.34	\$ 85,464
c.	EMBANKMENT	2,632	CY	\$ 15.97	\$ 42,028
d.	HMAC PAVEMENT (ROADWAY)	16,928	SY	\$ 76.32	\$ 1,291,991
e.	MILL AND OVERLAY COST	4,464	SY	\$ 16.15	\$ 72,101
f.	DRAINAGE SYSTEMS	0.317	LS/MI	\$ 180,400.00	\$ 57,201
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ -	\$ -
h.	ILLUMINATION (ROADWAY)	0	LS/MI	\$ 360,000.00	\$ 114,148
i.	ILLUMINATION (DECORATIVE)	1	LS/MI	\$ 219,000.00	\$ 138,881
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI	\$ -	\$ 64,599.57
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%		\$ -	\$ 46,463.57
l.	SIDEWALK/SHARED USE PATH	2,604	SY	\$ 54.99	\$ 143,217.49
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%		\$ -	\$ 77,439.28
n.	CURB AND GUTTER	6,697	LF	\$ 16.30	\$ 109,145
o.	CYCLE TRACK PAVEMENT	2,976	SY	\$ 44.73	\$ 133,138
p.	SIGNALIZATION	-	EA	\$ 250,000	\$ -
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	0	LS/MI	\$ 80,000.00	\$ 25,366
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 2,585,484
III. OTHER ITEMS					
	MOBILIZATION	10%		\$ -	\$ 258,548.40
	ENGINEERING AND DESIGN	15%		\$ -	\$ 387,822.60
	CONSTRUCTION CONTINGENCY	10%		\$ -	\$ 258,548.40
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%		\$ -	\$ 310,258.08
SUBTOTAL					\$ 1,215,177.48
MASTER CONTINGENCY					30%
					\$ 1,140,198.45
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 4,940,859.93
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		21,392	SY	\$ 7.00	\$ 149,779.35
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 10,409,646.68
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%		\$ -	\$ 315,562.51

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ESTIMATED CONSTRUCTION COST TEMPLATE

B-32

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Staples Rd

PROJECT LIMITS:

Broadway St to SH 123

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (2 LANE)	
b. TYPICAL SECTION:	BV 110-50	
c. PROJECT LENGTH =	0.366	MILES
d. NOMINAL ROW WIDTH =	110	FEET
d. BRIDGE LENGTH =	0.000	FT
e. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
f. EXISTING PAVEMENT WIDTH =	24	FEET
g. NOMINAL PAVEMENT WIDENING =	86	FEET
h. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
i. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 4-5 LANES	
j. EDWARDS AQUIFER/WATER QUALITY ZONE?	No	
k. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
l. NUMBER OF SIGNALIZED INTERSECTIONS	1	
m. NUMBER OF MONTHS FOR CONSTRUCTION	12	
n. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	20	STA	\$ 2,326.71	\$ 46,534
b.	EXCAVATION	6,043	CY	\$ 16.34	\$ 98,719
c.	EMBANKMENT	3,040	CY	\$ 15.97	\$ 48,546
d.	HMAC PAVEMENT (ROADWAY)	18,479	SY	\$ 76.32	\$ 1,410,362
e.	MILL AND OVERLAY COST	5,157	SY	\$ 16.15	\$ 83,283
f.	DRAINAGE SYSTEMS	0.366	LS/MI	\$ 180,400.00	\$ 66,072
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ -	\$ -
h.	ILLUMINATION (ROADWAY)	0	LS/MI	\$ 360,000.00	\$ 131,851
i.	ILLUMINATION (DECORATIVE)	1	LS/MI	\$ 219,000.00	\$ 160,419
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI		\$ 70,518.10
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%			\$ 51,209.44
l.	SIDEWALK/SHARED USE PATH	3,008	SY	\$ 54.99	\$ 165,428.38
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%			\$ 85,349.07
n.	CURB AND GUTTER	15,471	LF	\$ 16.30	\$ 252,143
o.	CYCLE TRACK PAVEMENT	3,008	SY	\$ 44.73	\$ 134,562
p.	SIGNALIZATION	1	EA	\$ 250,000	\$ 250,000
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	0	LS/MI	\$ 80,000.00	\$ 29,300
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 3,229,042
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 322,904.24
	ENGINEERING AND DESIGN	15%			\$ 484,356.36
	CONSTRUCTION CONTINGENCY	10%			\$ 322,904.24
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 387,485.09
SUBTOTAL					\$ 1,517,649.94
MASTER CONTINGENCY					30%
					\$ 1,424,007.71
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 6,170,700.06
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		23,636	SY	\$ 7.00	\$ 165,485.81
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 13,000,734.34
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 348,653.64

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ESTIMATED CONSTRUCTION COST TEMPLATE

B-33

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Staples Rd

PROJECT LIMITS:

Crystal River Pkwy to Broadway St

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (2 LANE)	
b. TYPICAL SECTION:	BV 115-71	
c. PROJECT LENGTH =	0.380	MILES
d. NOMINAL ROW WIDTH =	115	FEET
d. BRIDGE LENGTH =	0.000	FT
e. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
f. EXISTING PAVEMENT WIDTH =	24	FEET
g. NOMINAL PAVEMENT WIDENING =	91	FEET
h. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
i. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 4-5 LANES	
j. EDWARDS AQUIFER/WATER QUALITY ZONE?	No	
k. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
l. NUMBER OF SIGNALIZED INTERSECTIONS	0	
m. NUMBER OF MONTHS FOR CONSTRUCTION	12	
n. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	21	STA	\$ 2,326.71	\$ 48,861
b.	EXCAVATION	6,264	CY	\$ 16.34	\$ 102,323
c.	EMBANKMENT	3,151	CY	\$ 15.97	\$ 50,318
d.	HMAC PAVEMENT (ROADWAY)	20,267	SY	\$ 76.32	\$ 1,546,852
e.	MILL AND OVERLAY COST	5,345	SY	\$ 16.15	\$ 86,324
f.	DRAINAGE SYSTEMS	0.380	LS/MI	\$ 180,400.00	\$ 68,485
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ -	\$ -
h.	ILLUMINATION (ROADWAY)	0	LS/MI	\$ 360,000.00	\$ 136,666
i.	ILLUMINATION (DECORATIVE)	1	LS/MI	\$ 219,000.00	\$ 166,276
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI	\$ -	\$ 77,342.61
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%		\$ -	\$ 55,629.07
l.	SIDEWALK/SHARED USE PATH	3,118	SY	\$ 54.99	\$ 171,468.87
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%		\$ -	\$ 92,715.11
n.	CURB AND GUTTER	8,018	LF	\$ 16.30	\$ 130,675
o.	CYCLE TRACK PAVEMENT	3,563	SY	\$ 44.73	\$ 159,401
p.	SIGNALIZATION	-	EA	\$ 250,000	\$ -
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	0	LS/MI	\$ 80,000.00	\$ 30,370
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 3,068,453
III. OTHER ITEMS					
	MOBILIZATION	10%		\$ -	\$ 306,845.32
	ENGINEERING AND DESIGN	15%		\$ -	\$ 460,267.98
	CONSTRUCTION CONTINGENCY	10%		\$ -	\$ 306,845.32
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%		\$ -	\$ 368,214.38
SUBTOTAL					\$ 1,442,172.99
MASTER CONTINGENCY					30%
					\$ 1,353,187.85
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 5,863,814.00
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		25,612	SY	\$ 7.00	\$ 179,325.14
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 12,354,171.70
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 377,811.01

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ESTIMATED CONSTRUCTION COST TEMPLATE

B-34.1

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Staples Rd

PROJECT LIMITS:

Proposed Loop 1 to Crystal River Pkwy

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (2 LANE)	
b. TYPICAL SECTION:	BV 110-50	
c. PROJECT LENGTH =	2.041	MILES
d. NOMINAL ROW WIDTH =	110	FEET
d. BRIDGE LENGTH =	0.000	FT
e. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
f. EXISTING PAVEMENT WIDTH =	24	FEET
g. NOMINAL PAVEMENT WIDENING =	86	FEET
h. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
i. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 4-5 LANES	
j. EDWARDS AQUIFER/WATER QUALITY ZONE?	No	
k. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
l. NUMBER OF SIGNALIZED INTERSECTIONS	1	
m. NUMBER OF MONTHS FOR CONSTRUCTION	12	
n. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	108	STA	\$ 2,326.71	\$ 251,284
b.	EXCAVATION	33,679	CY	\$ 16.34	\$ 550,167
c.	EMBANKMENT	16,942	CY	\$ 15.97	\$ 270,548
d.	HMAC PAVEMENT (ROADWAY)	102,983	SY	\$ 76.32	\$ 7,860,054
e.	MILL AND OVERLAY COST	28,739	SY	\$ 16.15	\$ 464,143
f.	DRAINAGE SYSTEMS	2.041	LS/MI	\$ 180,400.00	\$ 368,225
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ -	\$ -
h.	ILLUMINATION (ROADWAY)	2	LS/MI	\$ 360,000.00	\$ 734,816
i.	ILLUMINATION (DECORATIVE)	4	LS/MI	\$ 219,000.00	\$ 894,027
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI	\$ -	\$ 393,002.72
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%			\$ 285,394.09
l.	SIDEWALK/SHARED USE PATH	16,765	SY	\$ 54.99	\$ 921,944.90
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%			\$ 475,656.82
n.	CURB AND GUTTER	86,218	LF	\$ 16.30	\$ 1,405,211
o.	CYCLE TRACK PAVEMENT	16,765	SY	\$ 44.73	\$ 749,926
p.	SIGNALIZATION	1	EA	\$ 250,000	\$ 250,000
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	2	LS/MI	\$ 80,000.00	\$ 163,293
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 16,182,438
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 1,618,243.80
	ENGINEERING AND DESIGN	15%			\$ 2,427,365.69
	CONSTRUCTION CONTINGENCY	10%			\$ 1,618,243.80
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 1,941,892.56
SUBTOTAL					\$ 7,605,745.84
MASTER CONTINGENCY					30%
					\$ 7,136,455.14
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 30,924,638.95
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		131,723	SY	\$ 7.00	\$ 922,264.94
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 65,153,550.09
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 1,943,073.13

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ESTIMATED CONSTRUCTION COST TEMPLATE

H-1

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Yarrington

PROJECT LIMITS:

Yarrington (Before Curve) to Blanco Vista

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (2 LANE)	
b. TYPICAL SECTION:	HW 150-72	
c. PROJECT LENGTH =	0.985	MILES
d. NOMINAL ROW WIDTH =	150	FEET
d. BRIDGE LENGTH =	0.000	FT
e. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
f. EXISTING PAVEMENT WIDTH =	66	FEET
g. NOMINAL PAVEMENT WIDENING =	84	FEET
h. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
i. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 4-5 LANES	
j. EDWARDS AQUIFER/WATER QUALITY ZONE?	Yes	
k. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
l. NUMBER OF SIGNALIZED INTERSECTIONS	0	
m. NUMBER OF MONTHS FOR CONSTRUCTION	12	
n. YEARS OF MAINTAINENCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	53	STA	\$ 2,326.71	\$ 123,315
b.	EXCAVATION	16,251	CY	\$ 16.34	\$ 265,476
c.	EMBANKMENT	8,175	CY	\$ 15.97	\$ 130,549
d.	HMAC PAVEMENT (ROADWAY)	48,537	SY	\$ 76.32	\$ 3,704,561
e.	MILL AND OVERLAY COST	38,137	SY	\$ 16.15	\$ 615,906
f.	DRAINAGE SYSTEMS	0.985	LS/MI	\$ 180,400.00	\$ 177,682
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ 36,080.00	\$ 35,536
h.	ILLUMINATION (ROADWAY)	1	LS/MI	\$ 360,000.00	\$ 354,576
i.	ILLUMINATION (DECORATIVE)	2	LS/MI	\$ 219,000.00	\$ 431,401
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI		\$ 185,228.03
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%			\$ 147,891.30
l.	SIDEWALK/SHARED USE PATH	13,868	SY	\$ 54.99	\$ 762,638.09
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%			\$ 246,485.49
n.	CURB AND GUTTER	20,802	LF	\$ 16.30	\$ 339,033
o.	CYCLE TRACK PAVEMENT	-	SY	\$ 44.73	\$ -
p.	SIGNALIZATION	-	EA	\$250,000	\$ -
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	1	LS/MI	\$ 80,000.00	\$ 78,795
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 7,743,819
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 774,381.86
	ENGINEERING AND DESIGN	15%			\$ 1,161,572.79
	CONSTRUCTION CONTINGENCY	10%			\$ 774,381.86
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 929,258.23
SUBTOTAL					\$ 3,639,594.74
MASTER CONTINGENCY					30%
					\$ 3,415,024.00
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 14,798,437.33
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		86,674	SY	\$ 7.00	\$ 606,854.52
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					\$ 31,178,075.50
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 1,278,550.95

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ESTIMATED CONSTRUCTION COST TEMPLATE

H-2

Transportation Master Plan
City of San Marcos

PROJECT NAME:

McCarty Ln

PROJECT LIMITS:

IH 35 to SH 123

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (2 LANE)	
b. TYPICAL SECTION:	HW 150-72	
c. PROJECT LENGTH =	2.396	MILES
d. NOMINAL ROW WIDTH =	150	FEET
e. BRIDGE LENGTH =	400.000	FT
f. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
g. EXISTING PAVEMENT WIDTH =	76	FEET
h. NOMINAL PAVEMENT WIDENING =	74	FEET
i. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
j. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 4-5 LANES	
k. EDWARDS AQUIFER/WATER QUALITY ZONE?	No	
l. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
m. NUMBER OF SIGNALIZED INTERSECTIONS	1	
n. NUMBER OF MONTHS FOR CONSTRUCTION	12	
o. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	127	STA	\$ 2,326.71	\$ 295,492
b.	EXCAVATION	39,536	CY	\$ 16.34	\$ 645,841
c.	EMBANKMENT	19,888	CY	\$ 15.97	\$ 317,596
d.	HMAC PAVEMENT (ROADWAY)	100,734	SY	\$ 76.32	\$ 7,688,421
e.	MILL AND OVERLAY COST	103,457	SY	\$ 16.15	\$ 1,670,830
f.	DRAINAGE SYSTEMS	2.396	LS/MI	\$ 180,400.00	\$ 432,259
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ -	\$ -
h.	ILLUMINATION (ROADWAY)	2	LS/MI	\$ 360,000.00	\$ 862,601
i.	ILLUMINATION (DECORATIVE)	5	LS/MI	\$ 219,000.00	\$ 1,049,498
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI	\$ -	\$ 384,421.06
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%		\$ -	\$ 322,648.40
l.	SIDEWALK/SHARED USE PATH	33,737	SY	\$ 54.99	\$ 1,855,322.01
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%		\$ -	\$ 537,747.33
n.	CURB AND GUTTER	50,606	LF	\$ 16.30	\$ 824,788
o.	CYCLE TRACK PAVEMENT	-	SY	\$ 44.73	\$ -
p.	SIGNALIZATION	1	EA	\$ 250,000	\$ 250,000
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	2	LS/MI	\$ 80,000.00	\$ 191,689
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	30400	SF	\$ 90.00	\$ 2,736,000.00
SUBTOTAL					\$ 20,209,900
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 2,020,989.99
	ENGINEERING AND DESIGN	15%			\$ 3,031,484.99
	CONSTRUCTION CONTINGENCY	10%			\$ 2,020,989.99
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 2,425,187.99
SUBTOTAL					\$ 9,498,652.98
MASTER CONTINGENCY					30%
					\$ 8,912,565.88
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 38,621,118.80
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		210,858	SY	\$ 7.00	\$ 1,476,336.63
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 81,368,872.32
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 3,110,418.62

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ESTIMATED CONSTRUCTION COST TEMPLATE

H-2.1

Transportation Master Plan
City of San Marcos

PROJECT NAME:

McCarty Ln/Old Bastrop Hwy

PROJECT LIMITS:

SH 123 to FM 110 Extension

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (2 LANE)	
b. TYPICAL SECTION:	HW 150-72	
c. PROJECT LENGTH =	0.437	MILES
d. NOMINAL ROW WIDTH =	150	FEET
d. BRIDGE LENGTH =	0.000	FT
e. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
f. EXISTING PAVEMENT WIDTH =	26	FEET
g. NOMINAL PAVEMENT WIDENING =	124	FEET
h. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
i. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 4-5 LANES	
j. EDWARDS AQUIFER/WATER QUALITY ZONE?	No	
k. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
l. NUMBER OF SIGNALIZED INTERSECTIONS	0	
m. NUMBER OF MONTHS FOR CONSTRUCTION	12	
n. YEARS OF MAINTAINENCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	24	STA	\$ 2,326.71	\$ 55,841
b.	EXCAVATION	7,203	CY	\$ 16.34	\$ 117,666
c.	EMBANKMENT	3,623	CY	\$ 15.97	\$ 57,863
d.	HMAC PAVEMENT (ROADWAY)	31,758	SY	\$ 76.32	\$ 2,423,851
e.	MILL AND OVERLAY COST	6,659	SY	\$ 16.15	\$ 107,540
f.	DRAINAGE SYSTEMS	0.437	LS/MI	\$ 180,400.00	\$ 78,754
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ -	\$ -
h.	ILLUMINATION (ROADWAY)	0	LS/MI	\$ 360,000.00	\$ 157,158
i.	ILLUMINATION (DECORATIVE)	1	LS/MI	\$ 219,000.00	\$ 191,209
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI	\$ -	\$ 121,192.57
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%		\$ -	\$ 83,570.23
l.	SIDEWALK/SHARED USE PATH	6,147	SY	\$ 54.99	\$ 338,022.31
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%		\$ -	\$ 139,283.71
n.	CURB AND GUTTER	9,220	LF	\$ 16.30	\$ 150,269
o.	CYCLE TRACK PAVEMENT	-	SY	\$ 44.73	\$ -
p.	SIGNALIZATION	-	EA	\$ 250,000	\$ -
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	0	LS/MI	\$ 80,000.00	\$ 34,924
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 4,201,890
III. OTHER ITEMS					
	MOBILIZATION	10%		\$ -	\$ 420,188.97
	ENGINEERING AND DESIGN	15%		\$ -	\$ 630,283.46
	CONSTRUCTION CONTINGENCY	10%		\$ -	\$ 420,188.97
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%		\$ -	\$ 504,226.77
SUBTOTAL					\$ 1,974,888.17
MASTER CONTINGENCY					30%
					\$ 1,853,033.37
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 8,029,811.27
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		38,416	SY	\$ 7.00	\$ 268,974.72
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					\$ 16,917,601.25
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 566,689.16

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ESTIMATED CONSTRUCTION COST TEMPLATE

S-1-1Z

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Jackson Lane

PROJECT LIMITS:

Thorpe Ln to IH 35 SBFR

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (1 LANE)	
b. TYPICAL SECTION:	CS 90-40	
c. PROJECT LENGTH =	0.208	MILES
d. NOMINAL ROW WIDTH =	90	FEET
e. BRIDGE LENGTH =	0.000	FT
f. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
g. EXISTING PAVEMENT WIDTH =	30	FEET
h. NOMINAL PAVEMENT WIDENING =	60	FEET
i. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
j. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 2-3 LANES	
k. EDWARDS AQUIFER/WATER QUALITY ZONE?	No	
l. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
m. NUMBER OF SIGNALIZED INTERSECTIONS	1	
n. NUMBER OF MONTHS FOR CONSTRUCTION	12	
o. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	11	STA	\$ 2,326.71	\$ 25,594
b.	EXCAVATION	2,449	CY	\$ 16.34	\$ 39,998
c.	EMBANKMENT	1,224	CY	\$ 15.97	\$ 19,551
d.	HMAC PAVEMENT (ROADWAY)	7,304	SY	\$ 76.32	\$ 557,475
e.	MILL AND OVERLAY COST	3,652	SY	\$ 16.15	\$ 58,981
f.	DRAINAGE SYSTEMS	0.208	LS/MI	\$ 136,400.00	\$ 28,303
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ -	\$ -
h.	ILLUMINATION (ROADWAY)	-	LS/MI	\$ 360,000.00	\$ -
i.	ILLUMINATION (DECORATIVE)	0	LS/MI	\$ 219,000.00	\$ 90,886
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI	\$ -	\$ 27,873.77
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%		\$ -	\$ 21,129.25
l.	SIDEWALK/SHARED USE PATH	1,948	SY	\$ 54.99	\$ 107,113.51
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%		\$ -	\$ 35,215.41
n.	CURB AND GUTTER	6,574	LF	\$ 16.30	\$ 107,140
o.	CYCLE TRACK PAVEMENT	1,704	SY	\$ 44.73	\$ 76,237
p.	SIGNALIZATION	1	EA	\$ 250,000	\$ 250,000
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	0	LS/MI	\$ 80,000.00	\$ 16,600
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	730	SY	\$ 46.60	\$ 34,035
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 1,640,878
III. OTHER ITEMS					
	MOBILIZATION	10%		\$ -	\$ 164,087.83
	ENGINEERING AND DESIGN	15%		\$ -	\$ 246,131.74
	CONSTRUCTION CONTINGENCY	10%		\$ -	\$ 164,087.83
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%		\$ -	\$ 196,905.40
SUBTOTAL					\$ 771,212.80
MASTER CONTINGENCY					\$ 723,627.33
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 3,135,718.42
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		10,956	SY	\$ 7.00	\$ 76,710.16
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					\$ 6,606,485.77
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%		\$ -	\$ 161,616.73

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ESTIMATED CONSTRUCTION COST TEMPLATE

S-2-1Z

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Davis Lane

PROJECT LIMITS:

River Rd to IH 35 NBFR

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (1 LANE)	
b. TYPICAL SECTION:	CS 90-40	
c. PROJECT LENGTH =	0.510	MILES
d. NOMINAL ROW WIDTH =	90	FEET
e. BRIDGE LENGTH =	0.000	FT
f. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
g. EXISTING PAVEMENT WIDTH =	34	FEET
h. NOMINAL PAVEMENT WIDENING =	56	FEET
i. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
j. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 2-3 LANES	
k. EDWARDS AQUIFER/WATER QUALITY ZONE?	No	
l. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
m. NUMBER OF SIGNALIZED INTERSECTIONS	0	
n. NUMBER OF MONTHS FOR CONSTRUCTION	12	
o. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	27	STA	\$ 2,326.71	\$ 62,821
b.	EXCAVATION	6,014	CY	\$ 16.34	\$ 98,250
c.	EMBANKMENT	3,007	CY	\$ 15.97	\$ 48,024
d.	HMAC PAVEMENT (ROADWAY)	16,745	SY	\$ 76.32	\$ 1,278,069
e.	MILL AND OVERLAY COST	10,167	SY	\$ 16.15	\$ 164,194
f.	DRAINAGE SYSTEMS	0.510	LS/MI	\$ 136,400.00	\$ 69,523
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ -	\$ -
h.	ILLUMINATION (ROADWAY)	-	LS/MI	\$ 360,000.00	\$ -
i.	ILLUMINATION (DECORATIVE)	1	LS/MI	\$ 219,000.00	\$ 223,249
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI	\$ -	\$ 63,903.47
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%		\$ -	\$ 49,741.82
l.	SIDEWALK/SHARED USE PATH	4,784	SY	\$ 54.99	\$ 263,109.32
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%		\$ -	\$ 82,903.04
n.	CURB AND GUTTER	16,147	LF	\$ 16.30	\$ 263,173
o.	CYCLE TRACK PAVEMENT	4,186	SY	\$ 44.73	\$ 187,266
p.	SIGNALIZATION	-	EA	\$ 250,000	\$ -
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	1	LS/MI	\$ 80,000.00	\$ 40,776
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	1,794	SY	\$ 46.60	\$ 83,602
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 3,123,352
III. OTHER ITEMS					
	MOBILIZATION	10%		\$ -	\$ 312,335.19
	ENGINEERING AND DESIGN	15%		\$ -	\$ 468,502.78
	CONSTRUCTION CONTINGENCY	10%		\$ -	\$ 312,335.19
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%		\$ -	\$ 374,802.23
SUBTOTAL					\$ 1,467,975.38
MASTER CONTINGENCY					30%
					\$ 1,377,398.18
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 5,968,725.44
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		26,912	SY	\$ 7.00	\$ 188,427.74
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 12,575,204.28
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 396,988.83

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ESTIMATED CONSTRUCTION COST TEMPLATE

S-4-1Z

Transportation Master Plan
City of San Marcos

PROJECT NAME:

De Zavala Drive

PROJECT LIMITS:

Staples Rd to Hwy 123

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (1 LANE)	
b. TYPICAL SECTION:	CS 90-40	
c. PROJECT LENGTH =	0.445	MILES
d. NOMINAL ROW WIDTH =	90	FEET
e. BRIDGE LENGTH =	0.000	FT
f. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
g. EXISTING PAVEMENT WIDTH =	28	FEET
h. NOMINAL PAVEMENT WIDENING =	62	FEET
i. HMA PAVEMENT TYPE	URBAN ARTERIAL	
j. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 2-3 LANES	
k. EDWARDS AQUIFER/WATER QUALITY ZONE?	No	
l. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
m. NUMBER OF SIGNALIZED INTERSECTIONS	1	
n. NUMBER OF MONTHS FOR CONSTRUCTION	12	
o. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a. PREPARING ROW		24	STA	\$ 2,326.71	\$ 55,841
b. EXCAVATION		5,249	CY	\$ 16.34	\$ 85,752
c. EMBANKMENT		2,625	CY	\$ 15.97	\$ 41,915
d. HMA PAVEMENT (ROADWAY)		16,181	SY	\$ 76.32	\$ 1,235,004
e. MILL AND OVERLAY COST		7,308	SY	\$ 16.15	\$ 118,018
f. DRAINAGE SYSTEMS		0.445	LS/MI	\$ 136,400.00	\$ 60,679
g. WATER QUALITY ADDITIONAL ALLOWANCE		20%	LS/MI	\$ -	\$ -
h. ILLUMINATION (ROADWAY)		-	LS/MI	\$ 360,000.00	\$ -
i. ILLUMINATION (DECORATIVE)		1	LS/MI	\$ 219,000.00	\$ 194,850
j. SIGNING AND PAVEMENT MARKINGS		5%	LS/MI		\$ 61,750.19
k. TEMPORARY/PERMANENT EROSION CONTROL		3%			\$ 46,241.02
l. SIDEWALK/SHARED USE PATH		4,176	SY	\$ 54.99	\$ 229,639.40
m. LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE		5%			\$ 77,068.36
n. CURB AND GUTTER		14,093	LF	\$ 16.30	\$ 229,695
o. CYCLE TRACK PAVEMENT		3,654	SY	\$ 44.73	\$ 163,444
p. SIGNALIZATION		1	EA	\$ 250,000	\$ 250,000
q. BARRICADES, SIGNS, AND TRAFFIC HANDLING		12	MO	\$ 12,062.21	\$ 144,747
r. CROSS DRAINAGE STRUCTURES			LS		
s. RETAINING WALLS			LS		
t. UTILITY RELOCATIONS/ADJUSTMENTS			LS		
u. SAFETY ALLOWANCE		0	LS/MI	\$ 80,000.00	\$ 35,589
v. RAISED/PAVED CYCLE TRACK OR PARKING BUFFER		1,566	SY	\$ 46.60	\$ 72,967
w. BRIDGE WIDENING		0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 3,103,198
III. OTHER ITEMS					
MOBILIZATION		10%			\$ 310,319.82
ENGINEERING AND DESIGN		15%			\$ 465,479.73
CONSTRUCTION CONTINGENCY		10%			\$ 310,319.82
CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)		10%			\$ 372,383.78
SUBTOTAL					\$ 1,458,503.14
MASTER CONTINGENCY					30%
					\$ 1,368,510.39
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 5,930,211.70
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		23,489	SY	\$ 7.00	\$ 164,458.00
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 12,494,061.63
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 346,488.21

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ESTIMATED CONSTRUCTION COST TEMPLATE

S-3

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Stagecoach Trl

PROJECT LIMITS:

Snyder Hill to Summit Ridge

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

- a. PROJECT TYPE:
b. TYPICAL SECTION:
c. PROJECT LENGTH =
d. NOMINAL ROW WIDTH =
e. BRIDGE LENGTH =
f. TYPE OF BRIDGE CONSTRUCTION
g. EXISTING PAVEMENT WIDTH =
h. NOMINAL PAVEMENT WIDENING =
i. HMAC PAVEMENT TYPE
j. ROADWAY TYPE (FOR DRAINAGE CALCULATION)
k. EDWARDS AQUIFER/WATER QUALITY ZONE?
l. CURRENT YEAR / YEAR OF EXPENDITURE
m. NUMBER OF SIGNALIZED INTERSECTIONS
n. NUMBER OF MONTHS FOR CONSTRUCTION
o. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION

RESIDENTIAL WIDENING (1 LANE)	
RD 50-18	
1.289	MILES
50	FEET
0.000	FT
BRIDGE WIDENING	
30	FEET
20	FEET
URBAN MINOR	
RURAL 2-3 LANES	
Yes	
2016	2035
0	
12	
20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	69	STA	\$ 2,326.71	\$ 160,543
b.	EXCAVATION	7,605	CY	\$ 16.34	\$ 124,227
c.	EMBANKMENT	7,605	CY	\$ 15.97	\$ 121,443
d.	HMAC PAVEMENT (ROADWAY)	15,123	SY	\$ 54.08	\$ 817,915
e.	MILL AND OVERLAY COST	22,685	SY	\$ 16.15	\$ 366,366
f.	DRAINAGE SYSTEMS	1.289	LS/MI	\$ 190,300.00	\$ 245,284
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ 38,060.00	\$ 49,057
h.	ILLUMINATION (ROADWAY)	-	LS/MI	\$ 360,000.00	\$ -
i.	ILLUMINATION (DECORATIVE)	-	LS/MI	\$ 219,000.00	\$ -
j.	SIGNING AND PAVEMENT MARKINGS	3%	LS/MI		\$ 24,537.46
k.	TEMPORARY/PERMANENT EROSION CONTROL	5%			\$ 86,214.65
l.	SIDEWALK/SHARED USE PATH	-	SY	\$ 54.99	\$ -
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	0%			\$ -
n.	CURB AND GUTTER	-	LF	\$ 16.30	\$ -
o.	CYCLE TRACK PAVEMENT	-	SY	\$ 44.73	\$ -
p.	SIGNALIZATION	-	EA	\$250,000	\$ -
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	1	LS/MI	\$ 80,000.00	\$ 103,115
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 2,243,449
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 224,344.92
	ENGINEERING AND DESIGN	15%			\$ 336,517.37
	CONSTRUCTION CONTINGENCY	10%			\$ 224,344.92
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 269,213.90
SUBTOTAL					\$ 1,054,421.10
MASTER CONTINGENCY					30%
					\$ 989,361.08
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 4,287,231.34
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		37,809	SY	\$ 7.00	\$ 264,720.32
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 9,032,549.81
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 557,725.79

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ESTIMATED CONSTRUCTION COST TEMPLATE

S-4

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Rattler Rd

PROJECT LIMITS:

McCarty Ln/FM 110 to Old Bastrop Hwy

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (1 LANE)	
b. TYPICAL SECTION:	AV 100-50	
c. PROJECT LENGTH =	0.431	MILES
d. NOMINAL ROW WIDTH =	100	FEET
d. BRIDGE LENGTH =	0.000	FT
e. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
f. EXISTING PAVEMENT WIDTH =	50	FEET
g. NOMINAL PAVEMENT WIDENING =	50	FEET
h. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
i. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 2-3 LANES	
j. EDWARDS AQUIFER/WATER QUALITY ZONE?	No	
k. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
l. NUMBER OF SIGNALIZED INTERSECTIONS	1	
m. NUMBER OF MONTHS FOR CONSTRUCTION	12	
n. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	23	STA	\$ 2,326.71	\$ 53,514
b.	EXCAVATION	5,087	CY	\$ 16.34	\$ 83,097
c.	EMBANKMENT	2,543	CY	\$ 15.97	\$ 40,617
d.	HMAC PAVEMENT (ROADWAY)	12,645	SY	\$ 76.32	\$ 965,144
e.	MILL AND OVERLAY COST	12,645	SY	\$ 16.15	\$ 204,223
f.	DRAINAGE SYSTEMS	0.431	LS/MI	\$ 136,400.00	\$ 58,801
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ -	\$ -
h.	ILLUMINATION (ROADWAY)	-	LS/MI	\$ 360,000.00	\$ -
i.	ILLUMINATION (DECORATIVE)	1	LS/MI	\$ 219,000.00	\$ 188,819
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI	\$ -	\$ 48,257.18
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%		\$ -	\$ 40,556.48
l.	SIDEWALK/SHARED USE PATH	4,047	SY	\$ 54.99	\$ 222,531.64
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%		\$ -	\$ 67,594.14
n.	CURB AND GUTTER	13,657	LF	\$ 16.30	\$ 222,586
o.	CYCLE TRACK PAVEMENT	3,541	SY	\$ 44.73	\$ 158,385
p.	SIGNALIZATION	1	EA	\$ 250,000	\$ 250,000
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	0	LS/MI	\$ 80,000.00	\$ 34,487
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	1,517	SY	\$ 46.60	\$ 70,708
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 2,854,068
III. OTHER ITEMS					
	MOBILIZATION	10%		\$	285,406.82
	ENGINEERING AND DESIGN	15%		\$	428,110.23
	CONSTRUCTION CONTINGENCY	10%		\$	285,406.82
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%		\$	342,488.18
SUBTOTAL					\$ 1,341,412.05
MASTER CONTINGENCY					30%
					\$ 1,258,644.07
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 5,454,124.30
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		25,291	SY	\$ 7.00	\$ 177,075.25
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 11,491,017.29
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 373,070.85

This estimate represents our engineering judgment as professionals knowledgeable with the construction of similar projects.
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ESTIMATED CONSTRUCTION COST TEMPLATE

S-5

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Bishop St

PROJECT LIMITS:

Craddock Ave to Hunter Rd/FM 2439

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

- a. PROJECT TYPE:
b. TYPICAL SECTION:
c. PROJECT LENGTH =
d. NOMINAL ROW WIDTH =
e. BRIDGE LENGTH =
f. TYPE OF BRIDGE CONSTRUCTION
g. EXISTING PAVEMENT WIDTH =
h. NOMINAL PAVEMENT WIDENING =
i. HMAC PAVEMENT TYPE
j. ROADWAY TYPE (FOR DRAINAGE CALCULATION)
k. EDWARDS AQUIFER/WATER QUALITY ZONE?
l. CURRENT YEAR / YEAR OF EXPENDITURE
m. NUMBER OF SIGNALIZED INTERSECTIONS
n. NUMBER OF MONTHS FOR CONSTRUCTION
o. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION

RESIDENTIAL WIDENING (1 LANE)	
RS 54-30	
1.007	MILES
54	FEET
0.000	FT
BRIDGE WIDENING	
30	FEET
24	FEET
URBAN MINOR	
URBAN 2-3 LANES	
Yes	
2016	2035
1	
12	
20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	54	STA	\$ 2,326.71	\$ 125,642
b.	EXCAVATION	5,939	CY	\$ 16.34	\$ 97,023
c.	EMBANKMENT	5,939	CY	\$ 15.97	\$ 94,849
d.	HMAC PAVEMENT (ROADWAY)	14,174	SY	\$ 54.08	\$ 766,565
e.	MILL AND OVERLAY COST	17,718	SY	\$ 16.15	\$ 286,138
f.	DRAINAGE SYSTEMS	1.007	LS/MI	\$ 136,400.00	\$ 137,311
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ 27,280.00	\$ 27,462
h.	ILLUMINATION (ROADWAY)	-	LS/MI	\$ 360,000.00	\$ -
i.	ILLUMINATION (DECORATIVE)	2	LS/MI	\$ 219,000.00	\$ 440,924
j.	SIGNING AND PAVEMENT MARKINGS	3%	LS/MI		\$ 22,996.96
k.	TEMPORARY/PERMANENT EROSION CONTROL	5%			\$ 70,467.40
l.	SIDEWALK/SHARED USE PATH	4,725	SY	\$ 54.99	\$ 259,824.82
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	0%			\$ -
n.	CURB AND GUTTER	10,631	LF	\$ 16.30	\$ 173,259
o.	CYCLE TRACK PAVEMENT	-	SY	\$ 44.73	\$ -
p.	SIGNALIZATION	1	EA	\$250,000	\$ 250,000
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	1	LS/MI	\$ 80,000.00	\$ 80,534
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 2,977,743
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 297,774.32
	ENGINEERING AND DESIGN	15%			\$ 446,661.48
	CONSTRUCTION CONTINGENCY	10%			\$ 297,774.32
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 357,329.18
SUBTOTAL					\$ 1,399,539.30
MASTER CONTINGENCY					30%
					\$ 1,313,184.75
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 5,690,467.23
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)		31,892	SY	\$ 7.00	\$ 223,290.63
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 11,988,956.19
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 470,439.68

This estimate represents our engineering judgment as professionals knowledgeable with the construction of similar projects.
This estimate is for planning and programming purposes only and does not guarantee what actual construction costs will be.

ESTIMATED CONSTRUCTION COST TEMPLATE

S-6

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Franklin Dr

PROJECT LIMITS:

Bishop St to Old Ranch Road 12

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

- a. PROJECT TYPE:
b. TYPICAL SECTION:
c. PROJECT LENGTH =
d. NOMINAL ROW WIDTH =
e. BRIDGE LENGTH =
f. TYPE OF BRIDGE CONSTRUCTION
g. EXISTING PAVEMENT WIDTH =
h. NOMINAL PAVEMENT WIDENING =
i. HMAC PAVEMENT TYPE
j. ROADWAY TYPE (FOR DRAINAGE CALCULATION)
k. EDWARDS AQUIFER/WATER QUALITY ZONE?
l. CURRENT YEAR / YEAR OF EXPENDITURE
m. NUMBER OF SIGNALIZED INTERSECTIONS
n. NUMBER OF MONTHS FOR CONSTRUCTION
o. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION

RESIDENTIAL WIDENING (1 LANE)	
RS 54-30	
0.762	MILES
54	FEET
0.000	FT
BRIDGE WIDENING	
35	FEET
19	FEET
URBAN MINOR	
URBAN 2-3 LANES	
Yes	
2016	2035
0	
12	
20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	41	STA	\$ 2,326.71	\$ 95,395
b.	EXCAVATION	4,495	CY	\$ 16.34	\$ 73,426
c.	EMBANKMENT	4,495	CY	\$ 15.97	\$ 71,780
d.	HMAC PAVEMENT (ROADWAY)	8,492	SY	\$ 54.08	\$ 459,267
e.	MILL AND OVERLAY COST	15,643	SY	\$ 16.15	\$ 252,636
f.	DRAINAGE SYSTEMS	0.762	LS/MI	\$ 136,400.00	\$ 103,915
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ 27,280.00	\$ 20,783
h.	ILLUMINATION (ROADWAY)	-	LS/MI	\$ 360,000.00	\$ -
i.	ILLUMINATION (DECORATIVE)	2	LS/MI	\$ 219,000.00	\$ 333,686
j.	SIGNING AND PAVEMENT MARKINGS	3%	LS/MI		\$ 13,778.01
k.	TEMPORARY/PERMANENT EROSION CONTROL	5%			\$ 49,090.40
l.	SIDEWALK/SHARED USE PATH	3,576	SY	\$ 54.99	\$ 196,632.15
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	0%			\$ -
n.	CURB AND GUTTER	8,045	LF	\$ 16.30	\$ 131,120
o.	CYCLE TRACK PAVEMENT	-	SY	\$ 44.73	\$ -
p.	SIGNALIZATION	-	EA	\$250,000	\$ -
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	1	LS/MI	\$ 80,000.00	\$ 60,947
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 2,007,203
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 200,720.33
	ENGINEERING AND DESIGN	15%			\$ 301,080.49
	CONSTRUCTION CONTINGENCY	10%			\$ 200,720.33
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 240,864.39
SUBTOTAL					\$ 943,385.55
MASTER CONTINGENCY					30%
					\$ 885,176.65
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 3,835,765.49
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		24,135	SY	\$ 7.00	\$ 168,983.53
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					\$ 8,081,379.36
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 356,022.81

This estimate represents our engineering judgment as professionals knowledgeable with the construction of similar projects.
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ESTIMATED CONSTRUCTION COST TEMPLATE

S-7

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Holland St

PROJECT LIMITS:

Old Ranch Road 12 to N LBJ Dr

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

- a. PROJECT TYPE:
b. TYPICAL SECTION:
c. PROJECT LENGTH =
d. NOMINAL ROW WIDTH =
e. BRIDGE LENGTH =
f. TYPE OF BRIDGE CONSTRUCTION
g. EXISTING PAVEMENT WIDTH =
h. NOMINAL PAVEMENT WIDENING =
i. HMAC PAVEMENT TYPE
j. ROADWAY TYPE (FOR DRAINAGE CALCULATION)
k. EDWARDS AQUIFER/WATER QUALITY ZONE?
l. CURRENT YEAR / YEAR OF EXPENDITURE
m. NUMBER OF SIGNALIZED INTERSECTIONS
n. NUMBER OF MONTHS FOR CONSTRUCTION
o. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION

RESIDENTIAL WIDENING (1 LANE)	
RS 54-30	
0.772	MILES
54	FEET
0.000	FT
BRIDGE WIDENING	
30	FEET
24	FEET
URBAN MINOR	
URBAN 2-3 LANES	
Yes	
2016	2035
1	
12	
20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	41	STA	\$ 2,326.71	\$ 95,395
b.	EXCAVATION	4,556	CY	\$ 16.34	\$ 74,422
c.	EMBANKMENT	4,556	CY	\$ 15.97	\$ 72,754
d.	HMAC PAVEMENT (ROADWAY)	10,872	SY	\$ 54.08	\$ 587,992
e.	MILL AND OVERLAY COST	13,590	SY	\$ 16.15	\$ 219,481
f.	DRAINAGE SYSTEMS	0.772	LS/MI	\$ 136,400.00	\$ 105,324
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ 27,280.00	\$ 21,065
h.	ILLUMINATION (ROADWAY)	-	LS/MI	\$ 360,000.00	\$ -
i.	ILLUMINATION (DECORATIVE)	2	LS/MI	\$ 219,000.00	\$ 338,210
j.	SIGNING AND PAVEMENT MARKINGS	3%	LS/MI		\$ 17,639.77
k.	TEMPORARY/PERMANENT EROSION CONTROL	5%			\$ 54,051.88
l.	SIDEWALK/SHARED USE PATH	3,624	SY	\$ 54.99	\$ 199,298.12
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	0%			\$ -
n.	CURB AND GUTTER	8,154	LF	\$ 16.30	\$ 132,898
o.	CYCLE TRACK PAVEMENT	-	SY	\$ 44.73	\$ -
p.	SIGNALIZATION	1	EA	\$250,000	\$ 250,000
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	1	LS/MI	\$ 80,000.00	\$ 61,774
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 2,375,050
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 237,505.04
	ENGINEERING AND DESIGN	15%			\$ 356,257.57
	CONSTRUCTION CONTINGENCY	10%			\$ 237,505.04
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 285,006.05
SUBTOTAL					\$ 1,116,273.71
MASTER CONTINGENCY					30%
					\$ 1,047,397.24
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 4,538,721.38
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		24,462	SY	\$ 7.00	\$ 171,274.64
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					\$ 9,562,401.41
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 360,849.83

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ESTIMATED CONSTRUCTION COST TEMPLATE

S-8

Transportation Master Plan
City of San Marcos

PROJECT NAME:

N LBJ Dr

PROJECT LIMITS:

W Sessom Dr to End of Street

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

- a. PROJECT TYPE:
b. TYPICAL SECTION:
c. PROJECT LENGTH =
d. NOMINAL ROW WIDTH =
e. BRIDGE LENGTH =
f. TYPE OF BRIDGE CONSTRUCTION
g. EXISTING PAVEMENT WIDTH =
h. NOMINAL PAVEMENT WIDENING =
i. HMAC PAVEMENT TYPE
j. ROADWAY TYPE (FOR DRAINAGE CALCULATION)
k. EDWARDS AQUIFER/WATER QUALITY ZONE?
l. CURRENT YEAR / YEAR OF EXPENDITURE
m. NUMBER OF SIGNALIZED INTERSECTIONS
n. NUMBER OF MONTHS FOR CONSTRUCTION
o. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION

RESIDENTIAL WIDENING (1 LANE)	
RS 54-30	
1.301	MILES
54	FEET
0.000	FT
BRIDGE WIDENING	
30	FEET
24	FEET
URBAN MINOR	
URBAN 2-3 LANES	
Yes	
2016	2035
1	
12	
20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	69	STA	\$ 2,326.71	\$ 160,543
b.	EXCAVATION	7,678	CY	\$ 16.34	\$ 125,420
c.	EMBANKMENT	7,678	CY	\$ 15.97	\$ 122,609
d.	HMAC PAVEMENT (ROADWAY)	18,322	SY	\$ 54.08	\$ 990,923
e.	MILL AND OVERLAY COST	22,903	SY	\$ 16.15	\$ 369,884
f.	DRAINAGE SYSTEMS	1.301	LS/MI	\$ 136,400.00	\$ 177,499
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ 27,280.00	\$ 35,500
h.	ILLUMINATION (ROADWAY)	-	LS/MI	\$ 360,000.00	\$ -
i.	ILLUMINATION (DECORATIVE)	3	LS/MI	\$ 219,000.00	\$ 569,974
j.	SIGNING AND PAVEMENT MARKINGS	3%	LS/MI		\$ 29,727.68
k.	TEMPORARY/PERMANENT EROSION CONTROL	5%			\$ 91,091.71
l.	SIDEWALK/SHARED USE PATH	6,107	SY	\$ 54.99	\$ 335,870.00
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	0%			\$ -
n.	CURB AND GUTTER	13,742	LF	\$ 16.30	\$ 223,968
o.	CYCLE TRACK PAVEMENT	-	SY	\$ 44.73	\$ -
p.	SIGNALIZATION	1	EA	\$250,000	\$ 250,000
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	1	LS/MI	\$ 80,000.00	\$ 104,105
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 3,731,859
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 373,185.90
	ENGINEERING AND DESIGN	15%			\$ 559,778.85
	CONSTRUCTION CONTINGENCY	10%			\$ 373,185.90
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 447,823.08
SUBTOTAL					\$ 1,753,973.72
MASTER CONTINGENCY					30%
					\$ 1,645,749.81
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 7,131,582.53
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		41,225	SY	\$ 7.00	\$ 288,643.03
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					\$ 15,025,168.77
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 608,127.33

This estimate represents our engineering judgment as professionals knowledgeable with the construction of similar projects.
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ESTIMATED CONSTRUCTION COST TEMPLATE

S-9

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Burleson/Prospect St

PROJECT LIMITS:

Bishop St to North St

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	RESIDENTIAL WIDENING (1 LANE)	
b. TYPICAL SECTION:	RS 54-30	
c. PROJECT LENGTH =	1.014	MILES
d. NOMINAL ROW WIDTH =	54	FEET
d. BRIDGE LENGTH =	0.000	FT
e. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
f. EXISTING PAVEMENT WIDTH =	40	FEET
g. NOMINAL PAVEMENT WIDENING =	14	FEET
h. HMAC PAVEMENT TYPE	URBAN MINOR	
i. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 2-3 LANES	
j. EDWARDS AQUIFER/WATER QUALITY ZONE?	Yes	
k. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
l. NUMBER OF SIGNALIZED INTERSECTIONS	0	
m. NUMBER OF MONTHS FOR CONSTRUCTION	12	
n. YEARS OF MAINTAINENCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	54	STA	\$ 2,326.71	\$ 125,642
b.	EXCAVATION	5,985	CY	\$ 16.34	\$ 97,771
c.	EMBANKMENT	5,985	CY	\$ 15.97	\$ 95,580
d.	HMAC PAVEMENT (ROADWAY)	8,332	SY	\$ 54.08	\$ 450,610
e.	MILL AND OVERLAY COST	23,805	SY	\$ 16.15	\$ 384,458
f.	DRAINAGE SYSTEMS	1.014	LS/MI	\$ 136,400.00	\$ 138,369
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ 27,280.00	\$ 27,674
h.	ILLUMINATION (ROADWAY)	-	LS/MI	\$ 360,000.00	\$ -
i.	ILLUMINATION (DECORATIVE)	2	LS/MI	\$ 219,000.00	\$ 444,323
j.	SIGNING AND PAVEMENT MARKINGS	3%	LS/MI		\$ 13,518.29
k.	TEMPORARY/PERMANENT EROSION CONTROL	5%			\$ 59,723.05
l.	SIDEWALK/SHARED USE PATH	4,761	SY	\$ 54.99	\$ 261,827.44
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	0%			\$ -
n.	CURB AND GUTTER	10,712	LF	\$ 16.30	\$ 174,594
o.	CYCLE TRACK PAVEMENT	-	SY	\$ 44.73	\$ -
p.	SIGNALIZATION	-	EA	\$250,000	\$ -
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	1	LS/MI	\$ 80,000.00	\$ 81,155
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 2,499,990
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 249,999.04
	ENGINEERING AND DESIGN	15%			\$ 374,998.56
	CONSTRUCTION CONTINGENCY	10%			\$ 249,999.04
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 299,998.85
SUBTOTAL					\$ 1,174,995.48
MASTER CONTINGENCY					30%
					\$ 1,102,495.76
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 4,777,481.63
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		32,137	SY	\$ 7.00	\$ 225,011.65
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					\$ 10,065,433.24
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 474,065.62

This estimate represents our engineering judgment as professionals knowledgeable with the construction of similar projects.
This estimate is for planning and programming purposes only and does not guarantee what actual construction costs will be.

ESTIMATED CONSTRUCTION COST TEMPLATE

S-10

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Charles Austin Dr

PROJECT LIMITS:

Aquarena Springs Dr to Hopkins St/Highway 80

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

- a. PROJECT TYPE:
b. TYPICAL SECTION:
c. PROJECT LENGTH =
d. NOMINAL ROW WIDTH =
e. BRIDGE LENGTH =
f. TYPE OF BRIDGE CONSTRUCTION
g. EXISTING PAVEMENT WIDTH =
h. NOMINAL PAVEMENT WIDENING =
i. HMAC PAVEMENT TYPE
j. ROADWAY TYPE (FOR DRAINAGE CALCULATION)
k. EDWARDS AQUIFER/WATER QUALITY ZONE?
l. CURRENT YEAR / YEAR OF EXPENDITURE
m. NUMBER OF SIGNALIZED INTERSECTIONS
n. NUMBER OF MONTHS FOR CONSTRUCTION
o. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION

RESIDENTIAL WIDENING (1 LANE)	
RS 54-30	
0.341	MILES
54	FEET
0.000	FT
BRIDGE WIDENING	
30	FEET
24	FEET
URBAN MINOR	
URBAN 2-3 LANES	
Yes	
2016	2035
2	
12	
20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	19	STA	\$ 2,326.71	\$ 44,207
b.	EXCAVATION	2,013	CY	\$ 16.34	\$ 32,876
c.	EMBANKMENT	2,013	CY	\$ 15.97	\$ 32,139
d.	HMAC PAVEMENT (ROADWAY)	4,803	SY	\$ 54.08	\$ 259,744
e.	MILL AND OVERLAY COST	6,003	SY	\$ 16.15	\$ 96,955
f.	DRAINAGE SYSTEMS	0.341	LS/MI	\$ 136,400.00	\$ 46,527
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ 27,280.00	\$ 9,305
h.	ILLUMINATION (ROADWAY)	-	LS/MI	\$ 360,000.00	\$ -
i.	ILLUMINATION (DECORATIVE)	1	LS/MI	\$ 219,000.00	\$ 149,404
j.	SIGNING AND PAVEMENT MARKINGS	3%	LS/MI		\$ 7,792.33
k.	TEMPORARY/PERMANENT EROSION CONTROL	5%			\$ 23,877.30
l.	SIDEWALK/SHARED USE PATH	1,601	SY	\$ 54.99	\$ 88,039.51
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	0%			\$ -
n.	CURB AND GUTTER	3,602	LF	\$ 16.30	\$ 58,707
o.	CYCLE TRACK PAVEMENT	-	SY	\$ 44.73	\$ -
p.	SIGNALIZATION	2	EA	\$ 250,000	\$ 500,000
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	0	LS/MI	\$ 80,000.00	\$ 27,288
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 1,521,608
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 152,160.84
	ENGINEERING AND DESIGN	15%			\$ 228,241.26
	CONSTRUCTION CONTINGENCY	10%			\$ 152,160.84
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 182,593.01
SUBTOTAL					\$ 715,155.94
MASTER CONTINGENCY					30%
					\$ 671,029.30
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 2,907,793.63
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		10,806	SY	\$ 7.00	\$ 75,660.20
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					\$ 6,126,282.62
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 159,404.62

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ESTIMATED CONSTRUCTION COST TEMPLATE

S-11

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Cheatham St

PROJECT LIMITS:

Hopkins St/Highway 80 to Guadalupe St

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

- a. PROJECT TYPE:
b. TYPICAL SECTION:
c. PROJECT LENGTH =
d. NOMINAL ROW WIDTH =
e. BRIDGE LENGTH =
f. TYPE OF BRIDGE CONSTRUCTION
g. EXISTING PAVEMENT WIDTH =
h. NOMINAL PAVEMENT WIDENING =
i. HMAC PAVEMENT TYPE
j. ROADWAY TYPE (FOR DRAINAGE CALCULATION)
k. EDWARDS AQUIFER/WATER QUALITY ZONE?
l. CURRENT YEAR / YEAR OF EXPENDITURE
m. NUMBER OF SIGNALIZED INTERSECTIONS
n. NUMBER OF MONTHS FOR CONSTRUCTION
o. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION

RESIDENTIAL	
WIDENING (1 LANE)	
CS 60-36	
1.287	MILES
60	FEET
100.000	FT
BRIDGE WIDENING	
36	FEET
24	FEET
URBAN MINOR	
URBAN 2-3 LANES	
No	
2016	2035
2	
12	
20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	68	STA	\$ 2,326.71	\$ 158,216
b.	EXCAVATION	7,595	CY	\$ 16.34	\$ 124,067
c.	EMBANKMENT	7,595	CY	\$ 15.97	\$ 121,286
d.	HMAC PAVEMENT (ROADWAY)	17,858	SY	\$ 54.08	\$ 965,810
e.	MILL AND OVERLAY COST	26,787	SY	\$ 16.15	\$ 432,612
f.	DRAINAGE SYSTEMS	1.287	LS/MI	\$ 136,400.00	\$ 175,584
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ -	\$ -
h.	ILLUMINATION (ROADWAY)	-	LS/MI	\$ 360,000.00	\$ -
i.	ILLUMINATION (DECORATIVE)	-	LS/MI	\$ 219,000.00	\$ -
j.	SIGNING AND PAVEMENT MARKINGS	3%	LS/MI	\$ -	\$ 28,974.29
k.	TEMPORARY/PERMANENT EROSION CONTROL	5%		\$ -	\$ 90,967.93
l.	SIDEWALK/SHARED USE PATH	7,552	SY	\$ 54.99	\$ 415,307.92
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	0%		\$ -	\$ -
n.	CURB AND GUTTER	13,594	LF	\$ 16.30	\$ 221,552
o.	CYCLE TRACK PAVEMENT	-	SY	\$ 44.73	\$ -
p.	SIGNALIZATION	2	EA	\$ 250,000	\$ 500,000
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	1	LS/MI	\$ 80,000.00	\$ 102,982
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	2600	SF	\$ 90.00	\$ 234,000.00
SUBTOTAL					\$ 3,716,104
III. OTHER ITEMS					
	MOBILIZATION	10%		\$	371,610.43
	ENGINEERING AND DESIGN	15%		\$	557,415.65
	CONSTRUCTION CONTINGENCY	10%		\$	371,610.43
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%		\$	445,932.52
SUBTOTAL					\$ 1,746,569.04
MASTER CONTINGENCY					30%
					\$ 1,638,802.02
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 7,101,475.40
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		45,312	SY	\$ 7.00	\$ 317,254.32
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					\$ 14,961,737.59
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 668,407.00

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ESTIMATED CONSTRUCTION COST TEMPLATE

S-12

Transportation Master Plan
City of San Marcos

PROJECT NAME:

CM Allen Pkwy

PROJECT LIMITS:

IH 35 SBFR to University Dr

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (1 LANE)	
b. TYPICAL SECTION:	CS 90-40	
c. PROJECT LENGTH =	1.202	MILES
d. NOMINAL ROW WIDTH =	90	FEET
e. BRIDGE LENGTH =	0.000	FT
f. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
g. EXISTING PAVEMENT WIDTH =	46	FEET
h. NOMINAL PAVEMENT WIDENING =	44	FEET
i. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
j. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 2-3 LANES	
k. EDWARDS AQUIFER/WATER QUALITY ZONE?	Yes	
l. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
m. NUMBER OF SIGNALIZED INTERSECTIONS	2	
n. NUMBER OF MONTHS FOR CONSTRUCTION	12	
o. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a. PREPARING ROW	64	STA	\$	2,326.71	\$ 148,909
b. EXCAVATION	14,179	CY	\$	16.34	\$ 231,617
c. EMBANKMENT	7,089	CY	\$	15.97	\$ 113,213
d. HMAC PAVEMENT (ROADWAY)	31,017	SY	\$	76.32	\$ 2,367,327
e. MILL AND OVERLAY COST	32,427	SY	\$	16.15	\$ 523,693
f. DRAINAGE SYSTEMS	1.202	LS/MI	\$	136,400.00	\$ 163,896
g. WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$	27,280.00	\$ 32,779
h. ILLUMINATION (ROADWAY)	-	LS/MI	\$	360,000.00	\$ -
i. ILLUMINATION (DECORATIVE)	2	LS/MI	\$	219,000.00	\$ 526,295
j. SIGNING AND PAVEMENT MARKINGS	5%	LS/MI	\$		\$ 118,366.36
k. TEMPORARY/PERMANENT EROSION CONTROL	3%				\$ 102,975.78
l. SIDEWALK/SHARED USE PATH	11,279	SY	\$	54.99	\$ 620,262.37
m. LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%				\$ 171,626.30
n. CURB AND GUTTER	38,066	LF	\$	16.30	\$ 620,413
o. CYCLE TRACK PAVEMENT	9,869	SY	\$	44.73	\$ 441,466
p. SIGNALIZATION	2	EA	\$	\$250,000	\$ 500,000
q. BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$	12,062.21	\$ 144,747
r. CROSS DRAINAGE STRUCTURES		LS			
s. RETAINING WALLS		LS			
t. UTILITY RELOCATIONS/ADJUSTMENTS		LS			
u. SAFETY ALLOWANCE	1	LS/MI	\$	80,000.00	\$ 96,127
v. RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	4,230	SY	\$	46.60	\$ 197,085
w. BRIDGE WIDENING	0	SF	\$	90.00	\$ -
SUBTOTAL					\$ 7,120,798
III. OTHER ITEMS					
MOBILIZATION	10%				\$ 712,079.83
ENGINEERING AND DESIGN	15%				\$ 1,068,119.75
CONSTRUCTION CONTINGENCY	10%				\$ 712,079.83
CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%				\$ 854,495.80
SUBTOTAL					\$ 3,346,775.22
MASTER CONTINGENCY					30%
					\$ 3,140,272.07
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 13,607,845.64
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
	63,444	SY	\$	7.00	\$ 444,205.61
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 28,669,678.38
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 935,874.23

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ESTIMATED CONSTRUCTION COST TEMPLATE

S-13

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Riverside Rd

PROJECT LIMITS:

Hopkins to IH 35 SBFR

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

- a. PROJECT TYPE:
b. TYPICAL SECTION:
c. PROJECT LENGTH =
d. NOMINAL ROW WIDTH =
e. BRIDGE LENGTH =
f. TYPE OF BRIDGE CONSTRUCTION
g. EXISTING PAVEMENT WIDTH =
h. NOMINAL PAVEMENT WIDENING =
i. HMAC PAVEMENT TYPE
j. ROADWAY TYPE (FOR DRAINAGE CALCULATION)
k. EDWARDS AQUIFER/WATER QUALITY ZONE?
l. CURRENT YEAR / YEAR OF EXPENDITURE
m. NUMBER OF SIGNALIZED INTERSECTIONS
n. NUMBER OF MONTHS FOR CONSTRUCTION
o. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION

RESIDENTIAL WIDENING (1 LANE)	
RS 54-30	
0.616	MILES
54	FEET
0.000	FT
BRIDGE WIDENING	
32	FEET
22	FEET
URBAN MINOR	
URBAN 2-3 LANES	
No	
2016	2035
0	
12	
20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	33	STA	\$ 2,326.71	\$ 76,781
b.	EXCAVATION	3,634	CY	\$ 16.34	\$ 59,356
c.	EMBANKMENT	3,634	CY	\$ 15.97	\$ 58,025
d.	HMAC PAVEMENT (ROADWAY)	7,949	SY	\$ 54.08	\$ 429,880
e.	MILL AND OVERLAY COST	11,562	SY	\$ 16.15	\$ 186,720
f.	DRAINAGE SYSTEMS	0.616	LS/MI	\$ 136,400.00	\$ 84,002
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ -	\$ -
h.	ILLUMINATION (ROADWAY)	-	LS/MI	\$ 360,000.00	\$ -
i.	ILLUMINATION (DECORATIVE)	1	LS/MI	\$ 219,000.00	\$ 269,743
j.	SIGNING AND PAVEMENT MARKINGS	3%	LS/MI	\$ -	\$ 12,896.39
k.	TEMPORARY/PERMANENT EROSION CONTROL	5%		\$ -	\$ 40,899.13
l.	SIDEWALK/SHARED USE PATH	2,890	SY	\$ 54.99	\$ 158,952.33
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	0%		\$ -	\$ -
n.	CURB AND GUTTER	6,503	LF	\$ 16.30	\$ 105,994
o.	CYCLE TRACK PAVEMENT	-	SY	\$ 44.73	\$ -
p.	SIGNALIZATION	-	EA	\$ 250,000	\$ -
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	1	LS/MI	\$ 80,000.00	\$ 49,268
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 1,677,264
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 167,726.36
	ENGINEERING AND DESIGN	15%			\$ 251,589.54
	CONSTRUCTION CONTINGENCY	10%			\$ 167,726.36
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 201,271.63
SUBTOTAL					\$ 788,313.90
MASTER CONTINGENCY					30%
					\$ 739,673.26
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 3,205,250.77
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		19,510	SY	\$ 7.00	\$ 136,601.90
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					\$ 6,752,979.95
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 287,799.60

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ESTIMATED CONSTRUCTION COST TEMPLATE

S-14

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Lime Kiln Rd

PROJECT LIMITS:

Post Rd to Windemere

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (1 LANE)	
b. TYPICAL SECTION:	RS 60-30	
c. PROJECT LENGTH =	0.857	MILES
d. NOMINAL ROW WIDTH =	60	FEET
d. BRIDGE LENGTH =	425.000	FT
e. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
f. EXISTING PAVEMENT WIDTH =	30	FEET
g. NOMINAL PAVEMENT WIDENING =	30	FEET
h. HMAC PAVEMENT TYPE	URBAN MINOR	
i. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 2-3 LANES	
j. EDWARDS AQUIFER/WATER QUALITY ZONE?	Yes	
k. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
l. NUMBER OF SIGNALIZED INTERSECTIONS	0	
m. NUMBER OF MONTHS FOR CONSTRUCTION	12	
n. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	46	STA	\$ 2,326.71	\$ 107,028
b.	EXCAVATION	10,110	CY	\$ 16.34	\$ 165,155
c.	EMBANKMENT	5,055	CY	\$ 15.97	\$ 80,727
d.	HMAC PAVEMENT (ROADWAY)	13,663	SY	\$ 54.08	\$ 738,924
e.	MILL AND OVERLAY COST	13,663	SY	\$ 16.15	\$ 220,656
f.	DRAINAGE SYSTEMS	0.857	LS/MI	\$ 136,400.00	\$ 116,867
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ 27,280.00	\$ 23,373
h.	ILLUMINATION (ROADWAY)	-	LS/MI	\$ 360,000.00	\$ -
i.	ILLUMINATION (DECORATIVE)	-	LS/MI	\$ 219,000.00	\$ -
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI		\$ 36,946.19
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%			\$ 40,371.06
l.	SIDEWALK/SHARED USE PATH	5,027	SY	\$ 54.99	\$ 276,424.84
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%			\$ 67,285.10
n.	CURB AND GUTTER	9,048	LF	\$ 16.30	\$ 147,462
o.	CYCLE TRACK PAVEMENT	-	SY	\$ 44.73	\$ -
p.	SIGNALIZATION	-	EA	\$250,000	\$ -
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	1	LS/MI	\$ 80,000.00	\$ 68,544
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	13600	SF	\$ 90.00	\$ 1,224,000.00
SUBTOTAL					\$ 3,458,510
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 345,851.02
	ENGINEERING AND DESIGN	15%			\$ 518,776.53
	CONSTRUCTION CONTINGENCY	10%			\$ 345,851.02
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 415,021.22
SUBTOTAL					\$ 1,625,499.78
MASTER CONTINGENCY					30%
					\$ 1,525,202.98
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 6,609,212.93
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)		30,159	SY	\$ 7.00	\$ 211,161.33
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 13,924,614.82
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 444,885.08

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ESTIMATED CONSTRUCTION COST TEMPLATE

S-15

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Lime Kiln Rd

PROJECT LIMITS:

Country Road 227 to Lovejoy Lane

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	RURAL WIDENING (1 LANE)	
b. TYPICAL SECTION:	RS 60-30	
c. PROJECT LENGTH =	1.561	MILES
d. NOMINAL ROW WIDTH =	60	FEET
e. BRIDGE LENGTH =	0.000	FT
f. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
g. EXISTING PAVEMENT WIDTH =	26	FEET
h. NOMINAL PAVEMENT WIDENING =	34	FEET
i. HMAC PAVEMENT TYPE	URBAN MINOR	
j. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 2-3 LANES	
k. EDWARDS AQUIFER/WATER QUALITY ZONE?	Yes	
l. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
m. NUMBER OF SIGNALIZED INTERSECTIONS	0	
n. NUMBER OF MONTHS FOR CONSTRUCTION	12	
o. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	83	STA	\$ 2,326.71	\$ 193,117
b.	EXCAVATION	17,173	CY	\$ 16.34	\$ 280,535
c.	EMBANKMENT	8,587	CY	\$ 15.97	\$ 137,124
d.	HMAC PAVEMENT (ROADWAY)	31,141	SY	\$ 54.08	\$ 1,684,173
e.	MILL AND OVERLAY COST	23,814	SY	\$ 16.15	\$ 384,589
f.	DRAINAGE SYSTEMS	1.561	LS/MI	\$ 136,400.00	\$ 212,948
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ 27,280.00	\$ 42,590
h.	ILLUMINATION (ROADWAY)	-	LS/MI	\$ 360,000.00	\$ -
i.	ILLUMINATION (DECORATIVE)	-	LS/MI	\$ 219,000.00	\$ -
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI		\$ 84,208.63
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%			\$ 82,258.75
l.	SIDEWALK/SHARED USE PATH	9,159	SY	\$ 54.99	\$ 503,686.67
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	0%			\$ -
n.	CURB AND GUTTER	16,486	LF	\$ 16.30	\$ 268,698
o.	CYCLE TRACK PAVEMENT	-	SY	\$ 44.73	\$ -
p.	SIGNALIZATION	-	EA	\$250,000	\$ -
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	2	LS/MI	\$ 80,000.00	\$ 124,896
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 4,143,570
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 414,357.02
	ENGINEERING AND DESIGN	15%			\$ 621,535.52
	CONSTRUCTION CONTINGENCY	10%			\$ 414,357.02
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 497,228.42
SUBTOTAL					\$ 1,947,477.98
MASTER CONTINGENCY					30%
					\$ 1,827,314.44
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 7,918,362.58
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		54,954	SY	\$ 7.00	\$ 384,766.98
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 16,682,795.67
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 810,645.99

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ESTIMATED CONSTRUCTION COST TEMPLATE

S-16

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Hillard Rd

PROJECT LIMITS:

Lime Kiln Rd to Proposed Parkway Loop

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	RURAL WIDENING (1 LANE)	
b. TYPICAL SECTION:	RS 60-30	
c. PROJECT LENGTH =	1.431	MILES
d. NOMINAL ROW WIDTH =	60	FEET
d. BRIDGE LENGTH =	0.000	FT
e. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
f. EXISTING PAVEMENT WIDTH =	24	FEET
g. NOMINAL PAVEMENT WIDENING =	36	FEET
h. HMAC PAVEMENT TYPE	URBAN MINOR	
i. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 2-3 LANES	
j. EDWARDS AQUIFER/WATER QUALITY ZONE?	Yes	
k. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
l. NUMBER OF SIGNALIZED INTERSECTIONS	0	
m. NUMBER OF MONTHS FOR CONSTRUCTION	12	
n. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	76	STA	\$ 2,326.71	\$ 176,830
b.	EXCAVATION	15,739	CY	\$ 16.34	\$ 257,106
c.	EMBANKMENT	7,870	CY	\$ 15.97	\$ 125,672
d.	HMAC PAVEMENT (ROADWAY)	30,219	SY	\$ 54.08	\$ 1,634,316
e.	MILL AND OVERLAY COST	20,146	SY	\$ 16.15	\$ 325,358
f.	DRAINAGE SYSTEMS	1.431	LS/MI	\$ 136,400.00	\$ 195,164
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ 27,280.00	\$ 39,033
h.	ILLUMINATION (ROADWAY)	-	LS/MI	\$ 360,000.00	\$ -
i.	ILLUMINATION (DECORATIVE)	-	LS/MI	\$ 219,000.00	\$ -
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI		\$ 81,715.80
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%			\$ 77,299.46
l.	SIDEWALK/SHARED USE PATH	8,394	SY	\$ 54.99	\$ 461,621.79
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	0%			\$ -
n.	CURB AND GUTTER	15,109	LF	\$ 16.30	\$ 246,258
o.	CYCLE TRACK PAVEMENT	-	SY	\$ 44.73	\$ -
p.	SIGNALIZATION	-	EA	\$250,000	\$ -
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	1	LS/MI	\$ 80,000.00	\$ 114,466
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 3,879,586
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 387,958.59
	ENGINEERING AND DESIGN	15%			\$ 581,937.88
	CONSTRUCTION CONTINGENCY	10%			\$ 387,958.59
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 465,550.31
SUBTOTAL					\$ 1,823,405.37
MASTER CONTINGENCY					30%
					\$ 1,710,897.38
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 7,413,888.65
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		50,365	SY	\$ 7.00	\$ 352,633.55
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 15,619,945.19
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 742,945.71

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ESTIMATED CONSTRUCTION COST TEMPLATE

S-18

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Uhland Road

PROJECT LIMITS:

IH 35 NBFR to W Uhland Rd/River Rd

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

- a. PROJECT TYPE:
b. TYPICAL SECTION:
c. PROJECT LENGTH =
d. NOMINAL ROW WIDTH =
e. BRIDGE LENGTH =
f. TYPE OF BRIDGE CONSTRUCTION
g. EXISTING PAVEMENT WIDTH =
h. NOMINAL PAVEMENT WIDENING =
i. HMAC PAVEMENT TYPE
j. ROADWAY TYPE (FOR DRAINAGE CALCULATION)
k. EDWARDS AQUIFER/WATER QUALITY ZONE?
l. CURRENT YEAR / YEAR OF EXPENDITURE
m. NUMBER OF SIGNALIZED INTERSECTIONS
n. NUMBER OF MONTHS FOR CONSTRUCTION
o. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION

RESIDENTIAL WIDENING (1 LANE)	
RS 54-30	
0.516	MILES
54	FEET
0.000	FT
BRIDGE WIDENING	
24	FEET
30	FEET
URBAN MINOR	
URBAN 2-3 LANES	
No	
2016	2035
0	
12	
20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	28	STA	\$ 2,326.71	\$ 65,148
b.	EXCAVATION	3,047	CY	\$ 16.34	\$ 49,769
c.	EMBANKMENT	3,047	CY	\$ 15.97	\$ 48,653
d.	HMAC PAVEMENT (ROADWAY)	9,088	SY	\$ 54.08	\$ 491,519
e.	MILL AND OVERLAY COST	7,271	SY	\$ 16.15	\$ 117,421
f.	DRAINAGE SYSTEMS	0.516	LS/MI	\$ 136,400.00	\$ 70,434
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ -	\$ -
h.	ILLUMINATION (ROADWAY)	-	LS/MI	\$ 360,000.00	\$ -
i.	ILLUMINATION (DECORATIVE)	1	LS/MI	\$ 219,000.00	\$ 226,175
j.	SIGNING AND PAVEMENT MARKINGS	3%	LS/MI	\$ -	\$ 14,745.56
k.	TEMPORARY/PERMANENT EROSION CONTROL	5%		\$ -	\$ 38,889.80
l.	SIDEWALK/SHARED USE PATH	2,424	SY	\$ 54.99	\$ 133,278.89
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	0%		\$ -	\$ -
n.	CURB AND GUTTER	5,453	LF	\$ 16.30	\$ 88,874
o.	CYCLE TRACK PAVEMENT	-	SY	\$ 44.73	\$ -
p.	SIGNALIZATION	-	EA	\$ 250,000	\$ -
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	1	LS/MI	\$ 80,000.00	\$ 41,311
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 1,530,965
III. OTHER ITEMS					
	MOBILIZATION	10%		\$	153,096.46
	ENGINEERING AND DESIGN	15%		\$	229,644.68
	CONSTRUCTION CONTINGENCY	10%		\$	153,096.46
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%		\$	183,715.75
SUBTOTAL					\$ 719,553.34
MASTER CONTINGENCY					30%
					\$ 675,155.37
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 2,925,673.26
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		16,359	SY	\$ 7.00	\$ 114,538.43
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					\$ 6,163,952.30
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%		\$	241,315.19

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ESTIMATED CONSTRUCTION COST TEMPLATE

S-22

Transportation Master Plan
City of San Marcos

PROJECT NAME:

River Rd
River Rd (South of Railroad Bridge) to
Proposed Street 4
Enhanced

PROJECT LIMITS:

PROJECT DESCRIPTION:

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (1 LANE)	
b. TYPICAL SECTION:	CS 90-40	
c. PROJECT LENGTH =	0.187	MILES
d. NOMINAL ROW WIDTH =	90	FEET
d. BRIDGE LENGTH =	0.000	FT
e. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
f. EXISTING PAVEMENT WIDTH =	22	FEET
g. NOMINAL PAVEMENT WIDENING =	68	FEET
h. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
i. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 2-3 LANES	
j. EDWARDS AQUIFER/WATER QUALITY ZONE?	No	
k. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
l. NUMBER OF SIGNALIZED INTERSECTIONS	0	
m. NUMBER OF MONTHS FOR CONSTRUCTION	12	
n. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	10	STA	\$ 2,326.71	\$ 23,267
b.	EXCAVATION	2,203	CY	\$ 16.34	\$ 35,989
c.	EMBANKMENT	1,102	CY	\$ 15.97	\$ 17,591
d.	HMAC PAVEMENT (ROADWAY)	7,448	SY	\$ 76.32	\$ 568,483
e.	MILL AND OVERLAY COST	2,410	SY	\$ 16.15	\$ 38,917
f.	DRAINAGE SYSTEMS	0.187	LS/MI	\$ 136,400.00	\$ 25,467
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ -	\$ -
h.	ILLUMINATION (ROADWAY)	-	LS/MI	\$ 360,000.00	\$ -
i.	ILLUMINATION (DECORATIVE)	0	LS/MI	\$ 219,000.00	\$ 81,777
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI	\$ -	\$ 28,424.17
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%		\$ -	\$ 20,593.45
l.	SIDEWALK/SHARED USE PATH	1,753	SY	\$ 54.99	\$ 96,378.16
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%		\$ -	\$ 34,322.41
n.	CURB AND GUTTER	5,915	LF	\$ 16.30	\$ 96,402
o.	CYCLE TRACK PAVEMENT	1,533	SY	\$ 44.73	\$ 68,596
p.	SIGNALIZATION	-	EA	\$ 250,000	\$ -
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	0	LS/MI	\$ 80,000.00	\$ 14,936
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	657	SY	\$ 46.60	\$ 30,624
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 1,326,515
III. OTHER ITEMS					
	MOBILIZATION	10%		\$ -	\$ 132,651.52
	ENGINEERING AND DESIGN	15%		\$ -	\$ 198,977.28
	CONSTRUCTION CONTINGENCY	10%		\$ -	\$ 132,651.52
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%		\$ -	\$ 159,181.82
SUBTOTAL					\$ 623,462.13
MASTER CONTINGENCY					30%
					\$ 584,993.19
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 2,534,970.48
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		9,858	SY	\$ 7.00	\$ 69,021.95
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 5,340,800.48
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 145,418.84

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ESTIMATED CONSTRUCTION COST TEMPLATE

S-28

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Hunter Rd/FM 2439

PROJECT LIMITS:

Dixon St to Moore St

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

- a. PROJECT TYPE:
b. TYPICAL SECTION:
c. PROJECT LENGTH =
d. NOMINAL ROW WIDTH =
e. BRIDGE LENGTH =
f. TYPE OF BRIDGE CONSTRUCTION
g. EXISTING PAVEMENT WIDTH =
h. NOMINAL PAVEMENT WIDENING =
i. HMAC PAVEMENT TYPE
j. ROADWAY TYPE (FOR DRAINAGE CALCULATION)
k. EDWARDS AQUIFER/WATER QUALITY ZONE?
l. CURRENT YEAR / YEAR OF EXPENDITURE
m. NUMBER OF SIGNALIZED INTERSECTIONS
n. NUMBER OF MONTHS FOR CONSTRUCTION
o. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION

RESIDENTIAL WIDENING (1 LANE)	
RS 54-30	
1.054	MILES
54	FEET
0.000	FT
BRIDGE WIDENING	
32	FEET
22	FEET
URBAN MINOR	
URBAN 2-3 LANES	
Yes	
2016	2035
2	
12	
20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	56	STA	\$ 2,326.71	\$ 130,296
b.	EXCAVATION	6,220	CY	\$ 16.34	\$ 101,602
c.	EMBANKMENT	6,220	CY	\$ 15.97	\$ 99,325
d.	HMAC PAVEMENT (ROADWAY)	13,606	SY	\$ 54.08	\$ 735,844
e.	MILL AND OVERLAY COST	19,790	SY	\$ 16.15	\$ 319,616
f.	DRAINAGE SYSTEMS	1.054	LS/MI	\$ 136,400.00	\$ 143,790
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ 27,280.00	\$ 28,758
h.	ILLUMINATION (ROADWAY)	-	LS/MI	\$ 360,000.00	\$ -
i.	ILLUMINATION (DECORATIVE)	2	LS/MI	\$ 219,000.00	\$ 461,731
j.	SIGNING AND PAVEMENT MARKINGS	3%	LS/MI		\$ 22,075.31
k.	TEMPORARY/PERMANENT EROSION CONTROL	5%			\$ 71,446.72
l.	SIDEWALK/SHARED USE PATH	4,948	SY	\$ 54.99	\$ 272,085.60
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	0%			\$ -
n.	CURB AND GUTTER	11,132	LF	\$ 16.30	\$ 181,435
o.	CYCLE TRACK PAVEMENT	-	SY	\$ 44.73	\$ -
p.	SIGNALIZATION	2	EA	\$ 250,000	\$ 500,000
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	1	LS/MI	\$ 80,000.00	\$ 84,334
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 3,297,084
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 329,708.41
	ENGINEERING AND DESIGN	15%			\$ 494,562.62
	CONSTRUCTION CONTINGENCY	10%			\$ 329,708.41
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 395,650.10
SUBTOTAL					\$ 1,549,629.54
MASTER CONTINGENCY					30%
					\$ 1,454,014.10
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 6,300,727.76
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		33,396	SY	\$ 7.00	\$ 233,827.41
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 13,274,683.10
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 492,639.08

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ESTIMATED CONSTRUCTION COST TEMPLATE

S-29

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Old Ranch Road 12/Moore St

PROJECT LIMITS:

North St to Holland St

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

- a. PROJECT TYPE:
b. TYPICAL SECTION:
c. PROJECT LENGTH =
d. NOMINAL ROW WIDTH =
e. BRIDGE LENGTH =
f. TYPE OF BRIDGE CONSTRUCTION
g. EXISTING PAVEMENT WIDTH =
h. NOMINAL PAVEMENT WIDENING =
i. HMAC PAVEMENT TYPE
j. ROADWAY TYPE (FOR DRAINAGE CALCULATION)
k. EDWARDS AQUIFER/WATER QUALITY ZONE?
l. CURRENT YEAR / YEAR OF EXPENDITURE
m. NUMBER OF SIGNALIZED INTERSECTIONS
n. NUMBER OF MONTHS FOR CONSTRUCTION
o. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION

RESIDENTIAL WIDENING (1 LANE)	
RS 54-30	
0.893	MILES
54	FEET
0.000	FT
BRIDGE WIDENING	
32	FEET
22	FEET
URBAN MINOR	
URBAN 2-3 LANES	
Yes	
2016	2035
3	
12	
20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	48	STA	\$ 2,326.71	\$ 111,682
b.	EXCAVATION	5,266	CY	\$ 16.34	\$ 86,020
c.	EMBANKMENT	5,266	CY	\$ 15.97	\$ 84,093
d.	HMAC PAVEMENT (ROADWAY)	11,519	SY	\$ 54.08	\$ 622,998
e.	MILL AND OVERLAY COST	16,755	SY	\$ 16.15	\$ 270,601
f.	DRAINAGE SYSTEMS	0.893	LS/MI	\$ 136,400.00	\$ 121,739
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ 27,280.00	\$ 24,348
h.	ILLUMINATION (ROADWAY)	-	LS/MI	\$ 360,000.00	\$ -
i.	ILLUMINATION (DECORATIVE)	2	LS/MI	\$ 219,000.00	\$ 390,922
j.	SIGNING AND PAVEMENT MARKINGS	3%	LS/MI		\$ 18,689.93
k.	TEMPORARY/PERMANENT EROSION CONTROL	5%			\$ 60,489.94
l.	SIDEWALK/SHARED USE PATH	4,189	SY	\$ 54.99	\$ 230,359.67
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	0%			\$ -
n.	CURB AND GUTTER	9,425	LF	\$ 16.30	\$ 153,611
o.	CYCLE TRACK PAVEMENT	-	SY	\$ 44.73	\$ -
p.	SIGNALIZATION	3	EA	\$ 250,000	\$ 750,000
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	1	LS/MI	\$ 80,000.00	\$ 71,401
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 3,141,700
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 314,170.05
	ENGINEERING AND DESIGN	15%			\$ 471,255.07
	CONSTRUCTION CONTINGENCY	10%			\$ 314,170.05
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 377,004.06
SUBTOTAL					\$ 1,476,599.23
MASTER CONTINGENCY					30%
					\$ 1,385,489.92
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 6,003,789.64
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		28,275	SY	\$ 7.00	\$ 197,968.60
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 12,649,079.26
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 417,089.97

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ESTIMATED CONSTRUCTION COST TEMPLATE

S-30

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Comanche St

PROJECT LIMITS:

W Sessom Dr to Centre St

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

- a. PROJECT TYPE:
b. TYPICAL SECTION:
c. PROJECT LENGTH =
d. NOMINAL ROW WIDTH =
e. BRIDGE LENGTH =
f. TYPE OF BRIDGE CONSTRUCTION
g. EXISTING PAVEMENT WIDTH =
h. NOMINAL PAVEMENT WIDENING =
i. HMAC PAVEMENT TYPE
j. ROADWAY TYPE (FOR DRAINAGE CALCULATION)
k. EDWARDS AQUIFER/WATER QUALITY ZONE?
l. CURRENT YEAR / YEAR OF EXPENDITURE
m. NUMBER OF SIGNALIZED INTERSECTIONS
n. NUMBER OF MONTHS FOR CONSTRUCTION
o. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION

RESIDENTIAL WIDENING (1 LANE)	
RS 54-30	
0.857	MILES
54	FEET
0.000	FT
BRIDGE WIDENING	
28	FEET
26	FEET
URBAN MINOR	
URBAN 2-3 LANES	
Yes	
2016	2035
3	
12	
20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	46	STA	\$ 2,326.71	\$ 107,028
b.	EXCAVATION	5,056	CY	\$ 16.34	\$ 82,587
c.	EMBANKMENT	5,056	CY	\$ 15.97	\$ 80,736
d.	HMAC PAVEMENT (ROADWAY)	13,070	SY	\$ 54.08	\$ 706,884
e.	MILL AND OVERLAY COST	14,076	SY	\$ 16.15	\$ 227,326
f.	DRAINAGE SYSTEMS	0.857	LS/MI	\$ 136,400.00	\$ 116,880
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ 27,280.00	\$ 23,376
h.	ILLUMINATION (ROADWAY)	-	LS/MI	\$ 360,000.00	\$ -
i.	ILLUMINATION (DECORATIVE)	2	LS/MI	\$ 219,000.00	\$ 375,320
j.	SIGNING AND PAVEMENT MARKINGS	3%	LS/MI		\$ 21,206.53
k.	TEMPORARY/PERMANENT EROSION CONTROL	5%			\$ 61,889.50
l.	SIDEWALK/SHARED USE PATH	4,022	SY	\$ 54.99	\$ 221,165.64
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	0%			\$ -
n.	CURB AND GUTTER	9,049	LF	\$ 16.30	\$ 147,480
o.	CYCLE TRACK PAVEMENT	-	SY	\$ 44.73	\$ -
p.	SIGNALIZATION	3	EA	\$250,000	\$ 750,000
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	1	LS/MI	\$ 80,000.00	\$ 68,552
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 3,135,178
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 313,517.75
	ENGINEERING AND DESIGN	15%			\$ 470,276.63
	CONSTRUCTION CONTINGENCY	10%			\$ 313,517.75
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 376,221.30
SUBTOTAL					\$ 1,473,533.43
MASTER CONTINGENCY					30%
					\$ 1,382,613.28
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 5,991,324.23
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		27,146	SY	\$ 7.00	\$ 190,067.35
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					\$ 12,622,816.53
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 400,443.23

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ESTIMATED CONSTRUCTION COST TEMPLATE

S-31

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Martin Luther King Dr

PROJECT LIMITS:

End of Street to S LBJ Dr

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a.	PROJECT TYPE:	RESIDENTIAL WIDENING (1 LANE)	
b.	TYPICAL SECTION:	RS 54-30	
c.	PROJECT LENGTH =	0.993	MILES
d.	NOMINAL ROW WIDTH =	54	FEET
d.	BRIDGE LENGTH =	0.000	FT
e.	TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
f.	EXISTING PAVEMENT WIDTH =	28	FEET
g.	NOMINAL PAVEMENT WIDENING =	26	FEET
h.	HMAC PAVEMENT TYPE	URBAN MINOR	
i.	ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 2-3 LANES	
j.	EDWARDS AQUIFER/WATER QUALITY ZONE?	Yes	
k.	CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
l.	NUMBER OF SIGNALIZED INTERSECTIONS	2	
m.	NUMBER OF MONTHS FOR CONSTRUCTION	12	
n.	YEARS OF MAINTAINENCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	53	STA	\$ 2,326.71	\$ 123,315
b.	EXCAVATION	5,857	CY	\$ 16.34	\$ 95,675
c.	EMBANKMENT	5,857	CY	\$ 15.97	\$ 93,531
d.	HMAC PAVEMENT (ROADWAY)	15,142	SY	\$ 54.08	\$ 818,907
e.	MILL AND OVERLAY COST	16,307	SY	\$ 16.15	\$ 263,351
f.	DRAINAGE SYSTEMS	0.993	LS/MI	\$ 136,400.00	\$ 135,403
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ 27,280.00	\$ 27,081
h.	ILLUMINATION (ROADWAY)	-	LS/MI	\$ 360,000.00	\$ -
i.	ILLUMINATION (DECORATIVE)	2	LS/MI	\$ 219,000.00	\$ 434,798
j.	SIGNING AND PAVEMENT MARKINGS	3%	LS/MI		\$ 24,567.22
k.	TEMPORARY/PERMANENT EROSION CONTROL	5%			\$ 71,697.41
l.	SIDEWALK/SHARED USE PATH	4,659	SY	\$ 54.99	\$ 256,214.75
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	0%			\$ -
n.	CURB AND GUTTER	10,483	LF	\$ 16.30	\$ 170,851
o.	CYCLE TRACK PAVEMENT	-	SY	\$ 44.73	\$ -
p.	SIGNALIZATION	2	EA	\$250,000	\$ 500,000
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	1	LS/MI	\$ 80,000.00	\$ 79,415
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 3,239,554
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 323,955.43
	ENGINEERING AND DESIGN	15%			\$ 485,933.15
	CONSTRUCTION CONTIGENCY	10%			\$ 323,955.43
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 388,746.52
SUBTOTAL					\$ 1,522,590.53
MASTER CONTINGENCY					30%
					\$ 1,428,643.46
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 6,190,788.32
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		31,448	SY	\$ 7.00	\$ 220,188.17
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					\$ 13,043,057.28
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 463,903.27

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ESTIMATED CONSTRUCTION COST TEMPLATE

S-32

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Gravel Street

PROJECT LIMITS:

Mitchell St to End of Street

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

- a. PROJECT TYPE:
b. TYPICAL SECTION:
c. PROJECT LENGTH =
d. NOMINAL ROW WIDTH =
e. BRIDGE LENGTH =
f. TYPE OF BRIDGE CONSTRUCTION
g. EXISTING PAVEMENT WIDTH =
h. NOMINAL PAVEMENT WIDENING =
i. HMAC PAVEMENT TYPE
j. ROADWAY TYPE (FOR DRAINAGE CALCULATION)
k. EDWARDS AQUIFER/WATER QUALITY ZONE?
l. CURRENT YEAR / YEAR OF EXPENDITURE
m. NUMBER OF SIGNALIZED INTERSECTIONS
n. NUMBER OF MONTHS FOR CONSTRUCTION
o. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION

RESIDENTIAL WIDENING (1 LANE)	
CS 60-36	
0.245	MILES
60	FEET
0.000	FT
BRIDGE WIDENING	
26	FEET
34	FEET
URBAN MINOR	
URBAN 2-3 LANES	
Yes	
2016	2035
0	
12	
20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	13	STA	\$ 2,326.71	\$ 30,247
b.	EXCAVATION	1,448	CY	\$ 16.34	\$ 23,660
c.	EMBANKMENT	1,448	CY	\$ 15.97	\$ 23,130
d.	HMAC PAVEMENT (ROADWAY)	4,897	SY	\$ 54.08	\$ 264,824
e.	MILL AND OVERLAY COST	3,745	SY	\$ 16.15	\$ 60,474
f.	DRAINAGE SYSTEMS	0.245	LS/MI	\$ 136,400.00	\$ 33,485
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ 27,280.00	\$ 6,697
h.	ILLUMINATION (ROADWAY)	-	LS/MI	\$ 360,000.00	\$ -
i.	ILLUMINATION (DECORATIVE)	-	LS/MI	\$ 219,000.00	\$ -
j.	SIGNING AND PAVEMENT MARKINGS	3%	LS/MI		\$ 7,944.72
k.	TEMPORARY/PERMANENT EROSION CONTROL	5%			\$ 20,613.47
l.	SIDEWALK/SHARED USE PATH	1,440	SY	\$ 54.99	\$ 79,201.10
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	0%			\$ -
n.	CURB AND GUTTER	2,592	LF	\$ 16.30	\$ 42,251
o.	CYCLE TRACK PAVEMENT	-	SY	\$ 44.73	\$ -
p.	SIGNALIZATION	-	EA	\$ 250,000	\$ -
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	0	LS/MI	\$ 80,000.00	\$ 19,639
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 756,912
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 75,691.23
	ENGINEERING AND DESIGN	15%			\$ 113,536.85
	CONSTRUCTION CONTINGENCY	10%			\$ 75,691.23
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 90,829.48
SUBTOTAL					\$ 355,748.79
MASTER CONTINGENCY					30%
					\$ 333,798.34
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 1,446,459.46
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		8,641	SY	\$ 7.00	\$ 60,501.84
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 3,047,471.92
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 127,468.24

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ESTIMATED CONSTRUCTION COST TEMPLATE

S-34

Transportation Master Plan
City of San Marcos

PROJECT NAME:

River Rd

PROJECT LIMITS:

IH 35 NBFR to Proposed Avenue (Midtown IZ)

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

a. PROJECT TYPE:	URBAN WIDENING (1 LANE)	
b. TYPICAL SECTION:	AV 100-50	
c. PROJECT LENGTH =	1.825	MILES
d. NOMINAL ROW WIDTH =	100	FEET
e. BRIDGE LENGTH =	0.000	FT
f. TYPE OF BRIDGE CONSTRUCTION	BRIDGE WIDENING	
g. EXISTING PAVEMENT WIDTH =	50	FEET
h. NOMINAL PAVEMENT WIDENING =	50	FEET
i. HMA PAVEMENT TYPE	URBAN ARTERIAL	
j. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 2-3 LANES	
k. EDWARDS AQUIFER/WATER QUALITY ZONE?	No	
l. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
m. NUMBER OF SIGNALIZED INTERSECTIONS	1	
n. NUMBER OF MONTHS FOR CONSTRUCTION	12	
o. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	97	STA	\$ 2,326.71	\$ 225,691
b.	EXCAVATION	21,533	CY	\$ 16.34	\$ 351,748
c.	EMBANKMENT	10,766	CY	\$ 15.97	\$ 171,932
d.	HMA PAVEMENT (ROADWAY)	53,528	SY	\$ 76.32	\$ 4,085,421
e.	MILL AND OVERLAY COST	53,528	SY	\$ 16.15	\$ 864,470
f.	DRAINAGE SYSTEMS	1.825	LS/MI	\$ 136,400.00	\$ 248,903
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ -	\$ -
h.	ILLUMINATION (ROADWAY)	-	LS/MI	\$ 360,000.00	\$ -
i.	ILLUMINATION (DECORATIVE)	4	LS/MI	\$ 219,000.00	\$ 799,264
j.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI	\$ -	\$ 204,271.04
k.	TEMPORARY/PERMANENT EROSION CONTROL	3%		\$ -	\$ 171,674.24
l.	SIDEWALK/SHARED USE PATH	17,129	SY	\$ 54.99	\$ 941,968.98
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%		\$ -	\$ 286,123.73
n.	CURB AND GUTTER	57,810	LF	\$ 16.30	\$ 942,198
o.	CYCLE TRACK PAVEMENT	14,988	SY	\$ 44.73	\$ 670,437
p.	SIGNALIZATION	1	EA	\$ 250,000	\$ 250,000
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	2	LS/MI	\$ 80,000.00	\$ 145,984
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	6,423	SY	\$ 46.60	\$ 299,306
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 10,804,139
III. OTHER ITEMS					
	MOBILIZATION	10%		\$ -	\$ 1,080,413.92
	ENGINEERING AND DESIGN	15%		\$ -	\$ 1,620,620.88
	CONSTRUCTION CONTINGENCY	10%		\$ -	\$ 1,080,413.92
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%		\$ -	\$ 1,296,496.70
SUBTOTAL					\$ 5,077,945.42
MASTER CONTINGENCY					30%
					\$ 4,764,625.38
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 20,646,709.98
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		107,055	SY	\$ 7.00	\$ 749,553.61
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 43,499,503.90
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 1,579,196.41

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ESTIMATED CONSTRUCTION COST TEMPLATE

S-36

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Mitchell Street

PROJECT LIMITS:

Gravel St to MLK Dr

PROJECT DESCRIPTION:

Enhanced

I. PROJECT DATA

- a. PROJECT TYPE:
b. TYPICAL SECTION:
c. PROJECT LENGTH =
d. NOMINAL ROW WIDTH =
e. BRIDGE LENGTH =
f. TYPE OF BRIDGE CONSTRUCTION
g. EXISTING PAVEMENT WIDTH =
h. NOMINAL PAVEMENT WIDENING =
i. HMAC PAVEMENT TYPE
j. ROADWAY TYPE (FOR DRAINAGE CALCULATION)
k. EDWARDS AQUIFER/WATER QUALITY ZONE?
l. CURRENT YEAR / YEAR OF EXPENDITURE
m. NUMBER OF SIGNALIZED INTERSECTIONS
n. NUMBER OF MONTHS FOR CONSTRUCTION
o. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION

RESIDENTIAL WIDENING (1 LANE)	
RS 54-30	
0.000	MILES
54	FEET
0.000	FT
BRIDGE WIDENING	
30	FEET
24	FEET
URBAN MINOR	
URBAN 2-3 LANES	
Yes	
2016	2035
0	
12	
20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	0	STA	\$ 2,326.71	\$ -
b.	EXCAVATION	-	CY	\$ 16.34	\$ -
c.	EMBANKMENT	-	CY	\$ 15.97	\$ -
d.	HMAC PAVEMENT (ROADWAY)	-	SY	\$ 54.08	\$ -
e.	MILL AND OVERLAY COST	-	SY	\$ 16.15	\$ -
f.	DRAINAGE SYSTEMS	0.000	LS/MI	\$ 136,400.00	\$ -
g.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ 27,280.00	\$ -
h.	ILLUMINATION (ROADWAY)	-	LS/MI	\$ 360,000.00	\$ -
i.	ILLUMINATION (DECORATIVE)	-	LS/MI	\$ 219,000.00	\$ -
j.	SIGNING AND PAVEMENT MARKINGS	3%	LS/MI		\$ -
k.	TEMPORARY/PERMANENT EROSION CONTROL	5%			\$ -
l.	SIDEWALK/SHARED USE PATH	-	SY	\$ 54.99	\$ -
m.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	0%			\$ -
n.	CURB AND GUTTER	-	LF	\$ 16.30	\$ -
o.	CYCLE TRACK PAVEMENT	-	SY	\$ 44.73	\$ -
p.	SIGNALIZATION	-	EA	\$250,000	\$ -
q.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
r.	CROSS DRAINAGE STRUCTURES		LS		
s.	RETAINING WALLS		LS		
t.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
u.	SAFETY ALLOWANCE	-	LS/MI	\$ 80,000.00	\$ -
v.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
w.	BRIDGE WIDENING	0	SF	\$ 90.00	\$ -
SUBTOTAL					\$ 144,747
III. OTHER ITEMS					
	MOBILIZATION	10%			\$ 14,474.66
	ENGINEERING AND DESIGN	15%			\$ 21,711.98
	CONSTRUCTION CONTINGENCY	10%			\$ 14,474.66
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$ 17,369.59
SUBTOTAL					\$ 68,030.88
MASTER CONTINGENCY					30%
					\$ 63,833.23
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 276,610.68
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		-	SY	\$ 7.00	\$ -
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ 582,776.99
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					4%
					\$ -

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ESTIMATED CONSTRUCTION COST TEMPLATE

PA-3-1Z-CIP

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Proposed Avenue 3 (Midtown)

PROJECT LIMITS:

River Road to Uhland Road

PROJECT DESCRIPTION:

Proposed

I. PROJECT DATA

a. PROJECT TYPE:	URBAN NEW ALIGNMENT	
b. TYPICAL SECTION:	AV 100-50	
c. PROJECT LENGTH =	0.054	MILES
d. BRIDGE LENGTH =	0.000	FT
e. NOMINAL ROW WIDTH =	100	FEET
f. NOMINAL PAVEMENT WIDTH =	50	FEET
g. HMA PAVEMENT TYPE	URBAN ARTERIAL	
h. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 2-3 LANES	
i. EDWARDS AQUIFER/WATER QUALITY ZONE?	No	
j. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
k. NUMBER OF SIGNALIZED INTERSECTIONS	0	
l. NUMBER OF MONTHS FOR CONSTRUCTION	12	
m. YEARS OF MAINTENANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a. PREPARING ROW		3	STA	\$ 2,326.71	\$ 6,980
b. EXCAVATION		2,655	CY	\$ 16.34	\$ 43,365
c. EMBANKMENT		1,330	CY	\$ 15.97	\$ 21,240
d. HMA PAVEMENT (ROADWAY)		1,592	SY	\$ 76.32	\$ 121,539
e. DRAINAGE SYSTEMS		0.054	LS/MI	\$ 939,400.00	\$ 50,997
f. WATER QUALITY ADDITIONAL ALLOWANCE		20%	LS/MI	\$ -	\$ -
g. ILLUMINATION (ROADWAY)		-	LS/MI	\$ 360,000.00	\$ -
h. ILLUMINATION (DECORATIVE)		0	LS/MI	\$ 219,000.00	\$ 23,778
i. SIGNING AND PAVEMENT MARKINGS		5%	LS/MI		\$ 6,076.97
j. TEMPORARY/PERMANENT EROSION CONTROL		3%			\$ 7,114.24
k. SIDEWALK/SHARED USE PATH		510	SY	\$ 54.99	\$ 28,023.13
l. LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE		5%			\$ 11,857.07
m. CURB AND GUTTER		1,720	LF	\$ 16.30	\$ 28,030
n. CYCLE TRACK PAVEMENT		446	SY	\$ 44.73	\$ 19,945
o. SIGNALIZATION		-	EA	\$ 250,000	\$ -
p. BARRICADES, SIGNS, AND TRAFFIC HANDLING		12	MO	\$ 12,062.21	\$ 144,747
q. CROSS DRAINAGE STRUCTURES			LS		
r. RETAINING WALLS			LS		
s. UTILITY RELOCATIONS/ADJUSTMENTS			LS		
t. SAFETY ALLOWANCE		0	LS/MI	\$ 80,000.00	\$ 4,343
u. RAISED/PAVED CYCLE TRACK OR PARKING BUFFER		191	SY	\$ 46.60	\$ 8,904
v. BRIDGE CONSTRUCTION		0	SF	\$ 80.00	\$ -
SUBTOTAL					\$ 526,940
III. OTHER ITEMS					
MOBILIZATION	10%			\$	52,693.95
ENGINEERING AND DESIGN	15%			\$	79,040.93
CONSTRUCTION CONTINGENCY	10%			\$	52,693.95
CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$	63,232.74
SUBTOTAL					\$ 247,661.57
MASTER CONTINGENCY	30%			\$	232,380.32
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 1,006,981.40
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		1,592	SY	\$ 7.00	\$ 11,149.43
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					
	4%			\$	2,121,557.92
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
	4%			\$	23,490.17

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ESTIMATED CONSTRUCTION COST TEMPLATE

PB-14

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Proposed Boulevard 14 (Hwy 21 Extension)

PROJECT LIMITS:

Highway 80 to Staples Rd

PROJECT DESCRIPTION:

Proposed

I. PROJECT DATA

a. PROJECT TYPE:	URBAN NEW ALIGNMENT	
b. TYPICAL SECTION:	BV 115-71	
c. PROJECT LENGTH =	2.155	MILES
d. BRIDGE LENGTH =	350.000	FT
e. NOMINAL ROW WIDTH =	115	FEET
f. NOMINAL PAVEMENT WIDTH =	63	FEET
g. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
h. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 4-5 LANES	
i. EDWARDS AQUIFER/WATER QUALITY ZONE?	No	
j. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
k. NUMBER OF SIGNALIZED INTERSECTIONS	2	
l. NUMBER OF MONTHS FOR CONSTRUCTION	12	
j. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a. PREPARING ROW		114	STA	\$ 2,326.71	\$ 265,245
b. EXCAVATION		105,388	CY	\$ 16.34	\$ 1,721,576
c. EMBANKMENT		52,802	CY	\$ 15.97	\$ 843,217
d. HMAC PAVEMENT (ROADWAY)		77,205	SY	\$ 76.32	\$ 5,892,601
e. DRAINAGE SYSTEMS		2.155	LS/MI	\$ 1,455,300.00	\$ 3,136,431
f. WATER QUALITY ADDITIONAL ALLOWANCE		20%	LS/MI	\$ -	\$ -
g. ILLUMINATION (ROADWAY)		2	LS/MI	\$ 360,000.00	\$ 775,864
h. ILLUMINATION (DECORATIVE)		4	LS/MI	\$ 219,000.00	\$ 943,968
i. SIGNING AND PAVEMENT MARKINGS		5%	LS/MI	\$ -	\$ 294,630.07
j. TEMPORARY/PERMANENT EROSION CONTROL		3%		\$ -	\$ 347,814.76
k. SIDEWALK/SHARED USE PATH		17,701	SY	\$ 54.99	\$ 973,446.13
l. LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE		5%		\$ -	\$ 579,691.26
m. CURB AND GUTTER		45,517	LF	\$ 16.30	\$ 741,854
n. CYCLE TRACK PAVEMENT		20,230	SY	\$ 44.73	\$ 904,935
o. SIGNALIZATION		2	EA	\$ 250,000	\$ 500,000
p. BARRICADES, SIGNS, AND TRAFFIC HANDLING		12	MO	\$ 12,062.21	\$ 144,747
q. CROSS DRAINAGE STRUCTURES			LS		
r. RETAINING WALLS			LS		
s. UTILITY RELOCATIONS/ADJUSTMENTS			LS		
t. SAFETY ALLOWANCE		2	LS/MI	\$ 80,000.00	\$ 172,414
u. RAISED/PAVED CYCLE TRACK OR PARKING BUFFER		-	SY	\$ 46.60	\$ -
v. BRIDGE CONSTRUCTION		22750	SF	\$ 80.00	\$ 1,820,000.00
SUBTOTAL					\$ 20,058,434
III. OTHER ITEMS					
MOBILIZATION		10%		\$ -	\$ 2,005,843.43
ENGINEERING AND DESIGN		15%		\$ -	\$ 3,008,765.15
CONSTRUCTION CONTINGENCY		10%		\$ -	\$ 2,005,843.43
CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)		10%		\$ -	\$ 2,407,012.12
SUBTOTAL					\$ 9,427,464.14
MASTER CONTINGENCY		30%		\$ -	\$ 8,845,769.55
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 38,331,668.03
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		79,655	SY	\$ 7.00	\$ 557,712.68
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					
		4%		\$ -	\$ 80,759,043.21
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%		\$ -	\$ 1,175,016.50

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ESTIMATED CONSTRUCTION COST TEMPLATE

PB-17

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Proposed Boulevard 17 (Hwy 21 Extension)

PROJECT LIMITS:

End of Crystal River Pkwy to McCarty Ln

PROJECT DESCRIPTION:

Proposed

I. PROJECT DATA

a. PROJECT TYPE:	URBAN NEW ALIGNMENT	
b. TYPICAL SECTION:	BV 115-71	
c. PROJECT LENGTH =	2.209	MILES
d. BRIDGE LENGTH =	300.000	FT
e. NOMINAL ROW WIDTH =	115	FEET
f. NOMINAL PAVEMENT WIDTH =	63	FEET
g. HMA PAVEMENT TYPE	URBAN ARTERIAL	
h. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 4-5 LANES	
i. EDWARDS AQUIFER/WATER QUALITY ZONE?	No	
j. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
k. NUMBER OF SIGNALIZED INTERSECTIONS	7	
l. NUMBER OF MONTHS FOR CONSTRUCTION	12	
m. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a. PREPARING ROW		117	STA	\$ 2,326.71	\$ 272,225
b. EXCAVATION		108,003	CY	\$ 16.34	\$ 1,764,284
c. EMBANKMENT		54,112	CY	\$ 15.97	\$ 864,135
d. HMA PAVEMENT (ROADWAY)		79,531	SY	\$ 76.32	\$ 6,070,134
e. DRAINAGE SYSTEMS		2.209	LS/MI	\$ 1,455,300.00	\$ 3,214,238
f. WATER QUALITY ADDITIONAL ALLOWANCE		20%	LS/MI	\$ -	\$ -
g. ILLUMINATION (ROADWAY)		2	LS/MI	\$ 360,000.00	\$ 795,111
h. ILLUMINATION (DECORATIVE)		4	LS/MI	\$ 219,000.00	\$ 967,386
i. SIGNING AND PAVEMENT MARKINGS		5%	LS/MI		\$ 303,506.70
j. TEMPORARY/PERMANENT EROSION CONTROL		3%			\$ 357,383.73
k. SIDEWALK/SHARED USE PATH		18,140	SY	\$ 54.99	\$ 997,594.87
l. LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE		5%			\$ 595,639.54
m. CURB AND GUTTER		46,647	LF	\$ 16.30	\$ 760,257
n. CYCLE TRACK PAVEMENT		20,732	SY	\$ 44.73	\$ 927,384
o. SIGNALIZATION		7	EA	\$ 250,000	\$ 1,750,000
p. BARRICADES, SIGNS, AND TRAFFIC HANDLING		12	MO	\$ 12,062.21	\$ 144,747
q. CROSS DRAINAGE STRUCTURES			LS		
r. RETAINING WALLS			LS		
s. UTILITY RELOCATIONS/ADJUSTMENTS			LS		
t. SAFETY ALLOWANCE		2	LS/MI	\$ 80,000.00	\$ 176,691
u. RAISED/PAVED CYCLE TRACK OR PARKING BUFFER		-	SY	\$ 46.60	\$ -
v. BRIDGE CONSTRUCTION		19500	SF	\$ 80.00	\$ 1,560,000.00
SUBTOTAL					\$ 21,520,717
III. OTHER ITEMS					
MOBILIZATION		10%			\$ 2,152,071.73
ENGINEERING AND DESIGN		15%			\$ 3,228,107.60
CONSTRUCTION CONTINGENCY		10%			\$ 2,152,071.73
CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)		10%			\$ 2,582,486.08
SUBTOTAL					\$ 10,114,737.13
MASTER CONTINGENCY		30%			\$ 9,490,636.33
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 41,126,090.76
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		81,631	SY	\$ 7.00	\$ 571,548.13
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 86,646,470.44
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 1,204,165.70

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ESTIMATED CONSTRUCTION COST TEMPLATE

PB-3

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Proposed Boulevard 3

PROJECT LIMITS:

End of Old Ranch Road 12 to Proposed Parkway Loop

PROJECT DESCRIPTION:

Proposed

I. PROJECT DATA

a. PROJECT TYPE:	URBAN NEW ALIGNMENT	
b. TYPICAL SECTION:	BV 110-50	
c. PROJECT LENGTH =	0.225	MILES
d. BRIDGE LENGTH =	0.000	FT
e. NOMINAL ROW WIDTH =	110	FEET
f. NOMINAL PAVEMENT WIDTH =	50	FEET
g. HMAC PAVEMENT TYPE	URBAN ARTERIAL	
h. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 4-5 LANES	
i. EDWARDS AQUIFER/WATER QUALITY ZONE?	Yes	
j. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
k. NUMBER OF SIGNALIZED INTERSECTIONS	1	
l. NUMBER OF MONTHS FOR CONSTRUCTION	12	
j. YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a. PREPARING ROW		12	STA	\$ 2,326.71	\$ 27,920
b. EXCAVATION		10,985	CY	\$ 16.34	\$ 179,453
c. EMBANKMENT		5,504	CY	\$ 15.97	\$ 87,895
d. HMAC PAVEMENT (ROADWAY)		6,590	SY	\$ 76.32	\$ 502,954
e. DRAINAGE SYSTEMS		0.225	LS/MI	\$ 1,455,300.00	\$ 326,934
f. WATER QUALITY ADDITIONAL ALLOWANCE		20%	LS/MI	\$ 291,060.00	\$ 65,387
g. ILLUMINATION (ROADWAY)		0	LS/MI	\$ 360,000.00	\$ 80,874
h. ILLUMINATION (DECORATIVE)		0	LS/MI	\$ 219,000.00	\$ 98,397
i. SIGNING AND PAVEMENT MARKINGS		5%	LS/MI		\$ 25,147.71
j. TEMPORARY/PERMANENT EROSION CONTROL		3%			\$ 34,878.68
k. SIDEWALK/SHARED USE PATH		1,845	SY	\$ 54.99	\$ 101,469.67
l. LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE		5%			\$ 58,131.13
m. CURB AND GUTTER		9,489	LF	\$ 16.30	\$ 154,658
n. CYCLE TRACK PAVEMENT		1,845	SY	\$ 44.73	\$ 82,537
o. SIGNALIZATION		1	EA	\$ 250,000	\$ 250,000
p. BARRICADES, SIGNS, AND TRAFFIC HANDLING		12	MO	\$ 12,062.21	\$ 144,747
q. CROSS DRAINAGE STRUCTURES			LS		
r. RETAINING WALLS			LS		
s. UTILITY RELOCATIONS/ADJUSTMENTS			LS		
t. SAFETY ALLOWANCE		0	LS/MI	\$ 80,000.00	\$ 17,972
u. RAISED/PAVED CYCLE TRACK OR PARKING BUFFER		-	SY	\$ 46.60	\$ -
v. BRIDGE CONSTRUCTION		0	SF	\$ 80.00	\$ -
SUBTOTAL					\$ 2,239,355
III. OTHER ITEMS					
MOBILIZATION	10%			\$	223,935.54
ENGINEERING AND DESIGN	15%			\$	335,903.32
CONSTRUCTION CONTINGENCY	10%			\$	223,935.54
CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%			\$	268,722.65
SUBTOTAL					\$ 1,052,497.06
MASTER CONTINGENCY	30%			\$	987,555.75
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 4,279,408.25
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		6,590	SY	\$ 7.00	\$ 46,138.59
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					\$ 9,016,067.75
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%		\$	97,207.04

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ESTIMATED CONSTRUCTION COST TEMPLATE

PB-4.1

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Proposed Boulevard 4.1 (Post)

PROJECT LIMITS:

Post Rd to Iris St

PROJECT DESCRIPTION:

Proposed

I. PROJECT DATA

a.	PROJECT TYPE:	URBAN NEW ALIGNMENT	
b.	TYPICAL SECTION:	BV 110-50	
c.	PROJECT LENGTH =	0.471	MILES
d.	BRIDGE LENGTH =	0.000	FT
e.	NOMINAL ROW WIDTH =	110	FEET
f.	NOMINAL PAVEMENT WIDTH =	50	FEET
g.	HMAC PAVEMENT TYPE	URBAN ARTERIAL	
h.	ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 4-5 LANES	
i.	EDWARDS AQUIFER/WATER QUALITY ZONE?	Yes	
j.	CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
k.	NUMBER OF SIGNALIZED INTERSECTIONS	0	
l.	NUMBER OF MONTHS FOR CONSTRUCTION	12	
m.	YEARS OF MAINTAINANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a.	PREPARING ROW	25	STA	\$ 2,326.71	\$ 58,168
b.	EXCAVATION	23,034	CY	\$ 16.34	\$ 376,274
c.	EMBANKMENT	11,541	CY	\$ 15.97	\$ 184,297
d.	HMAC PAVEMENT (ROADWAY)	13,817	SY	\$ 76.32	\$ 1,054,586
e.	DRAINAGE SYSTEMS	0.471	LS/MI	\$ 1,455,300.00	\$ 685,510
f.	WATER QUALITY ADDITIONAL ALLOWANCE	20%	LS/MI	\$ 291,060.00	\$ 137,102
g.	ILLUMINATION (ROADWAY)	0	LS/MI	\$ 360,000.00	\$ 169,576
h.	ILLUMINATION (DECORATIVE)	1	LS/MI	\$ 219,000.00	\$ 206,317
i.	SIGNING AND PAVEMENT MARKINGS	5%	LS/MI		\$ 52,729.31
j.	TEMPORARY/PERMANENT EROSION CONTROL	3%			\$ 73,133.07
k.	SIDEWALK/SHARED USE PATH	3,869	SY	\$ 54.99	\$ 212,760.00
l.	LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE	5%			\$ 121,888.45
m.	CURB AND GUTTER	19,897	LF	\$ 16.30	\$ 324,285
n.	CYCLE TRACK PAVEMENT	3,869	SY	\$ 44.73	\$ 173,063
o.	SIGNALIZATION	-	EA	\$ 250,000	\$ -
p.	BARRICADES, SIGNS, AND TRAFFIC HANDLING	12	MO	\$ 12,062.21	\$ 144,747
q.	CROSS DRAINAGE STRUCTURES		LS		
r.	RETAINING WALLS		LS		
s.	UTILITY RELOCATIONS/ADJUSTMENTS		LS		
t.	SAFETY ALLOWANCE	0	LS/MI	\$ 80,000.00	\$ 37,684
u.	RAISED/PAVED CYCLE TRACK OR PARKING BUFFER	-	SY	\$ 46.60	\$ -
v.	BRIDGE CONSTRUCTION	0	SF	\$ 80.00	\$ -
SUBTOTAL					\$ 4,012,118
III. OTHER ITEMS					
	MOBILIZATION	10%		\$	401,211.79
	ENGINEERING AND DESIGN	15%		\$	601,817.69
	CONSTRUCTION CONTINGENCY	10%		\$	401,211.79
	CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)	10%		\$	481,454.15
SUBTOTAL					\$ 1,885,695.42
	MASTER CONTINGENCY	30%		\$	1,769,344.00
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 7,667,157.35
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		13,817	SY	\$ 7.00	\$ 96,742.66
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					
		4%		\$	16,153,544.14
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%		\$	203,822.20

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ESTIMATED CONSTRUCTION COST TEMPLATE

PS-25

Transportation Master Plan
City of San Marcos

PROJECT NAME:

Proposed Street 25 (Midtown)

PROJECT LIMITS:

River Road to Proposed Avenue 3 (Midtown)

PROJECT DESCRIPTION:

Proposed

I. PROJECT DATA

a. PROJECT TYPE:	URBAN NEW ALIGNMENT	
b. TYPICAL SECTION:	CS 90-40	
c. PROJECT LENGTH =	0.102	MILES
d. BRIDGE LENGTH =	0.000	FT
e. NOMINAL ROW WIDTH =	90	FEET
f. NOMINAL PAVEMENT WIDTH =	40	FEET
g. HMA PAVEMENT TYPE	URBAN ARTERIAL	
h. ROADWAY TYPE (FOR DRAINAGE CALCULATION)	URBAN 2-3 LANES	
i. EDWARDS AQUIFER/WATER QUALITY ZONE?	No	
j. CURRENT YEAR / YEAR OF EXPENDITURE	2016	2035
k. NUMBER OF SIGNALIZED INTERSECTIONS	0	
l. NUMBER OF MONTHS FOR CONSTRUCTION	12	
m. YEARS OF MAINTENANCE BEFORE FULL RECONSTRUCTION	20	YEARS

II. CONSTRUCTION ITEMS		QTY	UNITS	UNIT PRICE	TOTAL COST
a. PREPARING ROW		6	STA	\$ 2,326.71	\$ 13,960
b. EXCAVATION		4,985	CY	\$ 16.34	\$ 81,433
c. EMBANKMENT		2,498	CY	\$ 15.97	\$ 39,885
d. HMA PAVEMENT (ROADWAY)		2,392	SY	\$ 76.32	\$ 182,587
e. DRAINAGE SYSTEMS		0.102	LS/MI	\$ 939,400.00	\$ 95,765
f. WATER QUALITY ADDITIONAL ALLOWANCE		20%	LS/MI	\$ -	\$ -
g. ILLUMINATION (ROADWAY)		-	LS/MI	\$ 360,000.00	\$ -
h. ILLUMINATION (DECORATIVE)		0	LS/MI	\$ 219,000.00	\$ 44,651
i. SIGNING AND PAVEMENT MARKINGS		5%	LS/MI		\$ 9,129.33
j. TEMPORARY/PERMANENT EROSION CONTROL		3%			\$ 11,990.12
k. SIDEWALK/SHARED USE PATH		957	SY	\$ 54.99	\$ 52,623.37
l. LANDSCAPE, HARDSCAPE, AND AESTHETICS ALLOWANCE		5%			\$ 19,983.53
m. CURB AND GUTTER		3,230	LF	\$ 16.30	\$ 52,636
n. CYCLE TRACK PAVEMENT		837	SY	\$ 44.73	\$ 37,454
o. SIGNALIZATION		-	EA	\$ 250,000	\$ -
p. BARRICADES, SIGNS, AND TRAFFIC HANDLING		12	MO	\$ 12,062.21	\$ 144,747
q. CROSS DRAINAGE STRUCTURES			LS		
r. RETAINING WALLS			LS		
s. UTILITY RELOCATIONS/ADJUSTMENTS			LS		
t. SAFETY ALLOWANCE		0	LS/MI	\$ 80,000.00	\$ 8,155
u. RAISED/PAVED CYCLE TRACK OR PARKING BUFFER		359	SY	\$ 46.60	\$ 16,721
v. BRIDGE CONSTRUCTION		0	SF	\$ 80.00	\$ -
SUBTOTAL					\$ 811,721
III. OTHER ITEMS					
MOBILIZATION		10%			\$ 81,172.14
ENGINEERING AND DESIGN		15%			\$ 121,758.21
CONSTRUCTION CONTINGENCY		10%			\$ 81,172.14
CONSTRUCTION ENGINEERING AND INSPECTION (CE&I)		10%			\$ 97,406.57
SUBTOTAL					\$ 381,509.05
MASTER CONTINGENCY		30%			\$ 357,969.13
IV. TOTAL PROJECT COST (CURRENT YEAR DOLLARS)					\$ 1,551,199.56
V. UNIFORM ANNUAL MAINTAINANCE COSTS (CURRENT YEAR DOLLARS)					
		2,392	SY	\$ 7.00	\$ 16,749.61
VI. TOTAL PROJECT COST (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 3,268,143.51
VII. UNIFORM ANNUAL MAINTAINANCE COSTS (YEAR OF EXPENDITURE DOLLARS)					
		4%			\$ 35,288.91

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