Tra Vigne Development Project Infrastructure Phasing Plan

Appendix B Public Facilities Finance Plan

Prepared for MCD North Stockton, LLC Tra Vigne Project

Prepared by Berkson Associates
Prepared by NorthStar Engineering Group

January 23, 2020 February 28, 2020

Tra Vigne Development Project Infrastructure Phasing Plan

1	Engineer's Estimate of Probable Cost - Summary
2	Phased Infrastructure Matrix
3	Milestone Improvements and Phase 1
4	PFF Reimbursable – Cost Sharing
5	Off-site West Lane Total
6	Off-site West Lane Reimbursable
7	Off-site West Lane Developer
8	Off-site Eight Mile Road Total
9	Off-site Eight Mile Road Reimbursable
10	Off-site Eight Mile Road Developer
11	West Lane – Eight Mile Road Total
12	West Lane – Eight Mile Road Reimbursable
13	West Lane – Eight Mile Road Developer
14	Total Off-site Major
15	Reimbursable Off-site Major
16	Off-site Mitigation
17	Tra Vigne West
18	Tra Vigne West – In-Tract
19	Tra Vigne East – In-Tract
20	Estimate General Notes
21	Cost Matrix
22	Drainage Tributary Area
23	Off-site Street Infrastructure PFF & AOB
24	Off-site Utility Infrastructure PFF & AOB
25	Areas of Benefit
26	Phased Infrastructure Exhibits



NorthStar Engineering: Group; Inc.

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Tra Vigne (West & East) Engineer's Estimate of Probable Cost

Summary of Total Improvements

I. Tra Vigne Shared Construction Cost Summary	Φ4 F00 404 00
A. Off-Site West Lane Total Street Improvements	\$4,582,421.02
B. Off-Site 8 Mile Rd Total Street Improvements	\$4,187,535.67
C. West Lane - 8 Mile Total Intersection Improvements	\$413,688.00
D. Sanitary Sewer Infrastructure	\$872,090.00
E. Potable Water System Infrastructure	\$2,879,780.00
F. West lane / Bear Creek 24" Water Crossing Infrastructure	\$374,750.00
G. Off-Site Mitigation Improvements	\$412,928.75
SUB-TOTAL ===>_	\$13,723,193.43
CONSTRUCTION SUB-TOTAL ===>	\$13,723,193.43
CONTINGENCY - 10% ===>	\$1,372,319.34
CONSTRUCTION TOTAL ===>	\$15,095,512.78
SOFT COSTS - 35% ===>	\$5,283,429.47
GRAND TOTAL ===>	\$20,378,942.25
TOTAL LOTS ===>	1,212
COST PER LOT ===>	\$16,814.31
GRAND TOTAL IMPROVEMENTS AVAILABLE FOR PFF CREDITS ===>	\$2,933,499.34
GRAND TOTAL REIMBURSABLE OFF-SITE SHARED IMPROVEMENTS ===>	\$2,136,319.93
GRAND TOTAL PFF FEE CREDITS AND REIMBURSABLE IMPROVEMENTS ===>	\$5,069,819.27
ODAND TOTAL OFF CITE CHARED IMPROVEMENTS LESS DEIMPLIPOEMENTS	#45.000.400.07
GRAND TOTAL OFF-SITE SHARED IMPROVEMENTS LESS REIMBURSEMENTS ===>_	\$15,309,122.97
GRAND TOTAL OFF-SITE SHARED IMPROVEMENTS LESS REIMBURSEMENTS ===> _ TOTAL LOTS ===> _	\$15,309,122.97 1,212

II. Tra Vigne West In-Tract Construction Cost Summary	
A. Tra Vigne West In-Tract Major Infrastructure	\$4,876,151.50
B. Tra Vigne West Backbone In-Tract Improvements	\$10,279,108.00
C. Tra Vigne West In-Tract Improvements	\$18,090,349.25
SUB-TOTAL ===>	\$33,245,608.75
CONSTRUCTION SUB-TOTAL ===>	\$33,245,608.75
CONTINGENCY - 10% ===>	\$3,324,560.88
CONSTRUCTION TOTAL ===>	\$36,570,169.63
SOFT COSTS - 35% ===>	\$12,799,559.37
GRAND TOTAL ===>	\$49,369,728.99
TOTAL LOTO	704
TOTAL LOTS ===> COST PER LOT ===>	794 \$62,178.50
SUB TOTAL TOA VIGNE WEST IN TOACT AND SHADED COSTS>	¢50 209 072 02
SUB-TOTAL TRA VIGNE WEST IN-TRACT AND SHARED COSTS ===>	\$59,398,972.92
TOTAL LOTS ===>	794
COST PER LOT ===>	\$74,809.79
GRAND TOTAL IMPROVEMENTS AVAILABLE FOR PFF CREDITS ===>	\$4,419,771.35
GRAND TOTAL REIMBURSABLE OFF-SITE SHARED IMPROVEMENTS ===>	\$218,146.50
GRAND TOTAL PFF FEE CREDITS AND REIMBURSABLE IMPROVEMENTS ===>	\$4,637,917.85
GRAND TOTAL TRA VIGNE WEST IN-TRACT AND SHARED COSTS ===>	\$54,761,055.08
TOTAL LOTS ===>	794
COST PER LOT ===>	\$68,968.58

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III. Tra Vigne East In-Tract Construction Cost Summary	
A. Tra Vigne East In-Tract Major Infrastructure	\$2,483,358.00
B. Tra Vigne East In-Tract Improvements	\$9,855,245.03
SUB-TOTAL ===>	\$12,338,603.03
CONSTRUCTION SUB-TOTAL ===>	\$12,338,603.03
CONTINGENCY - 10% ===>	\$1,233,860.30
CONSTRUCTION TOTAL ===>	\$13,572,463.33
SOFT COSTS - 35% ===>	\$4,750,362.17
GRAND TOTAL ===>	\$18,322,825.50
TOTAL LOTS ===>	418
COST PER LOT ===>	\$43,834.51
SUB-TOTAL TRA VIGNE EAST IN-TRACT AND SHARED COSTS ===>	\$23,602,704.55
TOTAL LOTS ===>	418
COST PER LOT ===>	\$56,465.80
GRAND TOTAL IMPROVEMENTS AVAILABLE FOR PFF CREDITS ===>	\$3,273,649.83
GRAND TOTAL REIMBURSABLE OFF-SITE SHARED IMPROVEMENTS ===>	\$103,534.20
GRAND TOTAL PFF FEE CREDITS AND REIMBURSABLE IMPROVEMENTS ===>	\$3,377,184.03
GRAND TOTAL TRA VIGNE EAST IN-TRACT AND SHARED COSTS ===>_	\$20,225,520.52
TOTAL LOTS ===>	418
COST PER LOT ===>	\$48,386.41
COST FER LOT ===>	φ+0,300.41

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TABLE X.X Infrastructure Linkage to Development Phases Offsite, On-Site Backbond, and Other Shared Infrastructure

		PR	OJECT					-				ELO	PMEN	IT PH	IASE	S				
ITEN	DESCRIPTION	PHASE	MIL FOTONE	1	2	3	4	5	6	WES	8	9	10	11	СМ	MF	1	EA 2	ST 3	4
_		EX. REF	MILESTONE	6.1	6.2	6,3	6.4	6.5	6.6	6.7	6.8	6.9				6.12	7.1	7.2		7.4
1	Off-Site West Lane Total Street Improvements																			
1.A	Off-Site West Lane Street Improvements from Eight Mile Road to Road "B" (Includes Road "B" Intersection)	2.1 , 2.2 2.3				X			х	X	х	X	х	X	х	X				
1.B	Off-Site West Lane Street Improvements from Road "B" to Bear Creek	2.1 , 2.2 2.3	MILESTONE	М	М	M	М	M	М	M	М	M	М	M						
1.C	Traffic Signal Improvements Only at the Intersection of West Lane and Road "B"	2.1 , 2.3	MILESTONE	M	M	M	М	M	М	M	M	M	M	M						
2	Off-Site 8 Mile Rd Total Street Improvements																			
2.A	Off-Site Eight Mile Road Street Improvements from West Lane to Ham Road	2.1 , 2.4 2.5												P	х	X	х	X	X	X
2.B	Off-Site Eight Mile Road Street Improvements from Ham Road to Leach Road	2.1 , 2.4 2.5															X	X	х	X
2.C	Traffic Signal Improvements Only at the Intersection of 8-Mile Road and Road "C"	2.1 , 2.5													х	X				
2.D	Traffic Signal Improvements Only at the Intersection of 8-Mile Road and Leach Road	2.1 , 2.5															X	x	X	X
2.E	RTD Bus Stop along Eight-Mile Road adjacent to Commercial Land Use	2.1 , 2.5													Х	X				
3	West Lane - 8 Mile Total Intersection Improvements																			
3.A	West Lane and Eight Mile Road Intersection Street Improvements and Traffic Signal:	2.1 , 2.3 2.5								X	х	X	х	X	х	X				
4	Sanitary Sewer Infrastructure								(4-10)	716					Hy					
4.A	24" Sewer Main from the Existing Manhole North of McNair High School east to West Lane	3.1	MILESTONE	М	М	М	М	M	М	M	М	M	М	М	М	M	М	M	М	M
4.B	24" Sewer Main along West Lane from Bear Creek to Road "A"	3.1	MILESTONE	M	М	M	М	М	М	М	М	М	М	M	М	М	M	М	М	M
5	Potable Water System Infrastructure																			
5.A	12" Water Main in Eight Mile Road from Marlette Road to Lower Sacramento Road	3.1	MILESTONE	M	М	M	М	М	М	М	М	M	М	М	М	M	М	М	М	М
5.B	24" Water Main in Eight Mile Road from Lower Sacramento Road to West Lane	3,1	MILESTONE	M	М	M	М	М	М	М	М	М	М	М	М	M	M	M	М	М
5.C	24" Water Main in Eight Mile Road from West Lane to Ham Road	3.1													х	X	х	X	х	X
5.D	24" Water Main in Eight Mile Road from Ham Road to East End of Tra Vigne East	3.1													х	X	X	X	Х	X
5.E	24" Water Main in West Lane from Eight Mile Road to Bear Creek Undercrossing	3.1	MILESTONE	M	М	M	M	M	M	M	М	M	М	M	М	M	M	M	М	M
6	West lane / Bear Creek 24" Water Crossing Infrastructure																			
6.A	24" Water Main Undercrossing along West Lane under Bear Creek	3.1	MILESTONE	M	М	M	М	М	М	M	М	M	М	М	М	M	М	M	М	M
7	Off-Site Mitigation Improvements																			URE!
7.A	Part I - Morada Lane - Dedicated Right-Turn Lane	2.6				T	ОВІ	E BA	SE	0 0 0	TR	AFFI	C V	OLU	ME /	ANA	YSI	S	N OL	
7.B	Part II - Lower Sacramento Road Intersection Modifications	2.6	MILESTONE	М	М	M	М	M	М	M	М	M	М	M	М	M	М	M	М	M
8	Shared Storm Drain Pipes, Basin, and Pump Station Infrastr	ucture														NA.				
8.A	Storm Drainage Base Pump Station, Infrastructure, and Treatment	3.1	MILESTONE	М	М	М	М	M	М	М	М	М	М	M	М	M	М	М	М	M
	Storm Drainage Basin Construction	3.1	MILESTONE	M	М	M	М	M	M	M	M	M	М	M	М	М	М	M	М	М
	Storm Drainage Basin Fencing, Landscaping and Erosion Control	3.1	MILESTONE	М	М	M	М	M	М	M	М	M	М	M	М	M	М	М	М	M

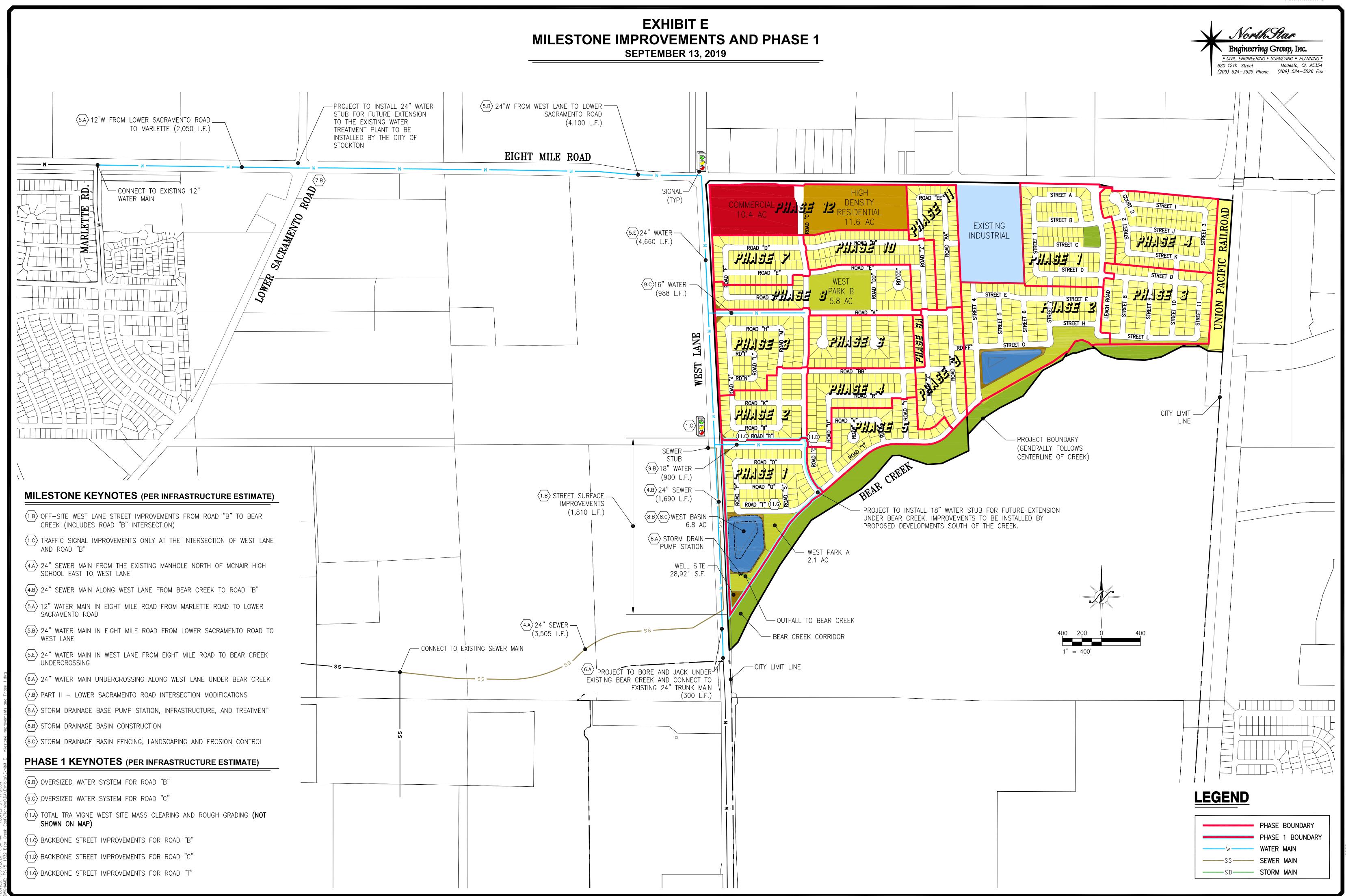
		PR	OJECT					1		ICAL		ELO	PMEN	IT PH	IASE	s				
ITEM	DESCRIPTION	PHASE		7	2	3	4	5	6	WES	8	9	10	11	CM	MF	1	EA 2	ST 3	4
		EX. REF	MILESTONE	6.1	6.2	6.3	6.4	Access to the last	6.6		6.8							7.2		
9	Tra Vigne West Oversized Backbone Water System Improv	ements																		
9.A	Oversized Water System for Road "A" - Segments (A1), (A2), and (A3)	3.1				X			X	x	х		х	X						
9.B	Oversized Water System for Road "B" - Segment (B)	3.1		X	Х	X	х	X	х			X								
9.C	Oversized Water System for Road "C" - Segments (C1), (C2), (C3), (C4), and (C5)	3.1		X	Х	x	х	X	x	X	х	X	х	X	х	x				
9.D	Oversized Water System for Roads "AA", "BB" AND "FF" - Segments (BB1), (BB2), (BB3), (AA), and (FF)	3.1					Х	X	X			X								
10	Tra Vigne West In-Tract Parks, Landscaping, Open Space,	and Recre	ational Improv	emei	nts															
10.A	In-Tract Park Landscaping Improvements (Does Not Include Major Amenities) (Per Development Agreement)	3.1 , 4.1 5.1						PE	R D	EVE	LOP	MEN	IT A	GRE	ЕМІ	ENT	-			
11	Tra Vigne West Backbone In-Tract Improvements																			
11.A	Total Tra Vigne West Site Mass Clearing and Rough Grading	4.1 , 5.1		X	Х	X	Х	X	Х	X	X	X	X	X	Х	X	Р	Р	Р	Р
11.B	Backbone Street Improvements for Road "A" - Segments (A1), (A2), and (A3)	4.1 , 5.1				Р			Р	Р	Р		x	x			Р	Р	Р	P
11.C	Backbone Street Improvements for Road "B" - Segment (B)	4.1 , 5.1		X	х	X	Х	X	Х			X					Р	Р	Р	Р
11.0	Backbone Street Improvements for Road "C" - Segments (C1), (C2), (C3), (C4), and (C5)	4.1 , 5.1		Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	P	Р	Р	Р	Р	Р	P
11.6	Backbone Street Improvements for Roads "AA", "BB" AND "FF" - Segments (BB1), (BB2), (BB3), (AA), and (FF)	4.1 , 5.1	n e				Р		Р			X					Р	Р	Р	P
HE	Backbone Street Improvements for Road "E" - Segment (E) - East of Road "C"	4.1 , 5.1									X		X	X						
	Backbone Street Improvements for Road "T" - Segment (T1) and (T2)	4.1 , 5.1		Р	Р	P	Р	Р	Р	P	Р	X	P	P	Р	P	Р	Р	Р	Р
12	Tra Vigne West In-Tract Improvements																			
12.A	Phase 1 - In-Tract Improvements:	4.1 , 6.1		X	Р	Р	Р	Р	Р	Р	Р	P	Р	P	Р	Р	Р	P	Р	P
12.B	Phase 2 - In-Tract Improvements:	4.1 , 6.2			X	P		1												
12.C	Phase 3 - In-Tract Improvements:	4.1 , 6.3				X														
12.D	Phase 4 - In-Tract Improvements:	4.1 , 6.4					X	P												
12.E	Phase 5 - In-Tract Improvements:	4.1 , 6.5						X												
12.F	Phase 6 - In-Tract Improvements:	4.1 , 6.6							X	Ţ										
12.G	Phase 7 - In-Tract Improvements:	4.1 , 6.7								X	Р									
12.H	Phase 8 - In-Tract Improvements:	4.1 , 6.8									Х									
12.1	Phase 9 - In-Tract Improvements:	4.1 , 6.9								La		X								
12.J	Phase 10 - In-Tract Improvements:	4.1 , 6.1								ing			X	P						
12.K	Phase 11 - In-Tract Improvements:	4.1 , 6.11												X						
12.L	Phase 12 - Commercial and Mult-Family Land Use	4.1 , 6.12				U								X	X	х				

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		PR	OJECT					١	/ERT	ICAL	DEV	ELOF	PMEN	IT PH	IASE	S				
TEM	DESCRIPTION	E.0	OULUT				- 48		1	WEST	Г		10					EA	ST	
-10	DESCRIPTION	PHASE	MILESTONE	1	2	3	4	5	6	7	8	9	10	11		MF	1	2	3	4
		EX. REF	MILLOTOTAL	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	6.10	6.11	6.12	6.12	7.1	7.2	7.3	7.4
13	Tra Vigne East Oversized Backbone Water System Improv	ements																	E.B.	
13.A	Oversized Water System for Backbone Roads	3.1															Х	х	Х	X
14	Tra Vigne East In-Tract Parks, Landscaping, Open Space,	and Recrea	ational Improv	emen	ts				100	and a										
14.A	In-Tract Park Landscaping Improvements (Does Not Include Major Amenities) (Per Development Agreement)	3.1 , 4.1 5.1						PE	R DI	EVEL	LOP	MEN	IT A	GRE	ЕМЕ	ENT	2250			UVER
																				_
15	Tra Vigne East In-Tract Improvements																			
	Tra Vigne East In-Tract Improvements Backbone Street Improvements	4.1 , 5.1															X	X	x	X
15.A		4.1 , 5.1							10 11								x	X	x	x
15.A 15.B	Backbone Street Improvements	1 8 ACC															2.2	X	X	x
15.A 15.B 15.C	Backbone Street Improvements Phase 1 - In-Tract Improvements	4.1 , 7.1							10 1								2.2		x	x

REFERENCE NOTES

- Denotes improvements that are required per phase of the project
 Denotes improvements that are patrially required per phase of the project
- [M] Designates Milestone Infrastructure Improvements at Start of Project



TRA VIGNE OFF-SITE SHARED INFRASTRUCTURE IMPROVEMENTS SUMMARY

BREAKDOWN OF TOTAL OFF-SITE IMPROVEMENT COSTS, IMPROVEMENTS AVAILABLE FOR PFF FEE CREDITS, AND DETERMINATION REMAINING IMPROVEMENTS AVAILABLE FOR AREA OF BENEFIT REIMBURSEMENTS Engineer's Estimate of Probable Cost

LAND USE AREA BREAKDOWN

TRA VIGNE WEST	TRA VIGNE EAST	AT&T	BRAGG CRANE	BEAR CREEK WEST	BEAR CREEK SOUTH
200.2	98	5.3	10.3	590	505.2

BREAKDOWN OF TOTAL IMPROVEMENTS, PFF REIMBURSABLE IMPROVEMENTS, AND AREA OF BENEFIT ANALYSIS

ITE	DESCRIPTION	EXHIBIT REF	TOTAL IMPROVEMENTS	IMPROVEMENTS AVAILABLE FOR	IMPROVEMENTS AVAILABLE FOR	REMAINING IMPROVEMENTS DEVELOPER RESPONSIBILITY	_	OPER THAT A		LLY AVAILAB	RE THE RESPON LE FOR AREA O NOTES]	_
			COST [SEE NOTE 1]		REIMBURSEMENTS [SEE NOTE 4]	AND/OR AREA OF BENEFIT	TRA VIGNE WEST	TRA VIGNE EAST	AT&T	BRAGG CRANE	BEAR CREEK WEST	BEAR CREEK SOUTH
1	Off-Site West Lane Total Street Improvements											
1.A	Off-Site West Lane Street Improvements from Eight Mile Road to Road "B" (Includes Road "B" Intersection) - By Frontage [SEE NOTE 3]	2.1 , 2.2 2.3	\$2,664,051	\$238,769	\$0	\$2,425,282	100.0% \$2,425,282	0.0% \$0	0.0% \$0	0.0% \$0	0.0% \$0	0.0% \$0
1.B	Off-Site West Lane Street Improvements from Road "B" to Bear Creek - By Frontage [SEE NOTE 3]	2.1 , 2.2 2.3	\$3,621,094	\$389,879	\$0	\$3,231,216	100.0% \$3,231,216	0.0% \$0	0.0% \$0	0.0% \$0	0.0% \$0	0.0% \$0
1.0	Traffic Signal Improvements Only at the Intersection of West Lane and Road "B" - By Frontage [SEE NOTE 3]	2.1 , 2.3	\$519,750	\$0	\$0	\$519,750	50.0% \$259,875	0.0% \$0	0.0% \$0	0.0% \$0	50.0% \$259,875	0.0% \$0

TOTALS OF SPECIFIC IMPROVEMENTS ===> \$6,804,895 \$628,647 \$0 \$6,176,248 \$5,916,373 \$0 \$0 \$0 \$259,875 \$0

ITEM	DESCRIPTION	EXHIBIT REF	TOTAL IMPROVEMENTS	IMPROVEMENTS AVAILABLE FOR	IMPROVEMENTS AVAILABLE FOR	REMAINING IMPROVEMENTS DEVELOPER RESPONSIBILITY		LOPER THAT A		LY AVAILABI	RE THE RESPON LE FOR AREA O NOTES]	
			COST [SEE NOTE 1]	PFF FEE CREDITS [SEE NOTE 2]	REIMBURSEMENTS [SEE NOTE 4]		TRA VIGNE WEST	TRA VIGNE EAST	AT&T	BRAGG CRANE	BEAR CREEK WEST	BEAR CREEK SOUTH
2	Off-Site 8 Mile Rd Total Street Improvements [SEE NOTE 3]											
2.A	Off-Site Eight Mile Road Street Improvements from West Lane to Ham Road - By Frontage [SEE NOTE 3]	2.1 , 2.4 2.5	\$3,004,033	\$803,563	\$0	\$2,200,470	100.0% \$2,200,470	0.0% \$0	0.0% \$0	0.0% \$0	0.0% \$0	0.0% \$0
2.B	Off-Site Eight Mile Road Street Improvements from Ham Road to Leach Road - By Frontage [SEE NOTE 3]	2.1 , 2.4 2.5	\$2,148,970	\$886,962	\$0	\$1,262,001	0.0% \$0	55.5% \$700,734	22.2% \$280,634	22.2% \$280,634	0.0% \$0	0.0% \$0
2.C	Traffic Signal Improvements Only at the Intersection of 8-Mile Road and Road "C" - By Frontage [SEE NOTE 3]	2.1 , 2.5	\$519,750	\$0	\$0	\$519,750	100.0% \$519,750	0.0% \$0	0.0% \$0	0.0% \$0	0.0% \$0	0.0% \$0
2.D	Traffic Signal Improvements Only at the Intersection of 8-Mile Road and Leach Road - By Frontage [SEE NOTE 3]	2.1 , 2.5	\$519,750	\$0	\$0	\$519,750	0.0% \$0	100.0% \$519,750	0.0% \$0	0.0% \$0	0.0% \$0	0.0% \$0
2.E	RTD Bus Stop along Eight-Mile Road adjacent to Commercial Land Use - By Area [SEE NOTE 8]	2.1 , 2.5	\$25,988	\$0	\$0	\$25,988	14.2% \$3,692	7.0% \$1,808	0.4% \$98	0.7% \$190	41.9% \$10,882	35.9% \$9,318

TOTALS OF SPECIFIC IMPROVEMENTS ===> \$6,218,490 \$1,690,525 \$0 \$4,527,959 \$2,723,913 \$1,222,291 \$280,731 \$280,824 \$10,882 \$9,318

TRA VIGNE OFF-SITE SHARED INFRASTRUCTURE IMPROVEMENTS SUMMARY

BREAKDOWN OF TOTAL OFF-SITE IMPROVEMENT COSTS, IMPROVEMENTS AVAILABLE FOR PFF FEE CREDITS, AND DETERMINATION REMAINING IMPROVEMENTS AVAILABLE FOR AREA OF BENEFIT REIMBURSEMENTS Engineer's Estimate of Probable Cost

ITEM	DESCRIPTION	EXHIBIT REF	TOTAL IMPROVEMENTS	IMPROVEMENTS AVAILABLE FOR	IMPROVEMENTS AVAILABLE FOR	REMAINING IMPROVEMENTS DEVELOPER RESPONSIBILITY		LOPER THAT A		LLY AVAILABI	E THE RESPON LE FOR AREA C NOTES]	
			COST [SEE NOTE 1]	_	REIMBURSEMENTS [SEE NOTE 4]		TRA VIGNE WEST	TRA VIGNE EAST	AT&T	BRAGG CRANE	BEAR CREEK WEST	BEAR CREEK SOUTH
3	West Lane - 8 Mile Total Intersection Improvements											
3.A	West Lane and Eight Mile Road Intersection Street Improvements and Traffic Signal:	2.1 , 2.3 2.5	\$614,327	\$614,327	\$0	\$0	14.2% \$0	7.0% \$0	0.4% \$0	0.7% \$0	41.9% \$0	35.9% \$0
	TOTALS OF SPECIFIC IMPROVEM	ENTS ===>	\$614,327	\$614,327	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

ITE	ЕМ	DESCRIPTION	EXHIBIT REF	TOTAL IMPROVEMENTS	IMPROVEMENTS AVAILABLE FOR	IMPROVEMENTS AVAILABLE FOR	REMAINING IMPROVEMENTS DEVELOPER RESPONSIBILITY	_	LOPER THAT A		LLY AVAILABI	E THE RESPON LE FOR AREA O NOTES]	_
				COST [SEE NOTE 1]		REIMBURSEMENTS [SEE NOTE 4]	AND/OR AREA OF BENEFIT	TRA VIGNE WEST	TRA VIGNE EAST	AT&T	BRAGG CRANE	BEAR CREEK WEST	BEAR CREEK SOUTH
4	4 S	Sanitary Sewer Infrastructure [SEE NOTE 4],[SEE NOTE 5]						22.2%	10.8%	0.6%	1.1%	65.3%	0.0%
4.	.A 2	24" Sewer Main from the Existing Manhole North of McNair High School east to West Lane	3.1	\$795,114	\$0	\$511,363	\$283,751	\$62,853	\$30,767	\$1,664	\$3,234	\$185,232	\$0
4.	.B 2	24" Sewer Main along West Lane from Bear Creek to Road "A"	3.1	\$499,940	\$0	\$227,008	\$272,932	\$60,457	\$29,594	\$1,601	\$3,110	\$178,170	\$0

\$0

\$738,371

\$556,683

\$123,310

\$60,362

\$3,264

\$6,344

\$363,402

\$0

\$1,295,054

TOTALS OF SPECIFIC IMPROVEMENTS ===>

ITEM	DESCRIPTION	EXHIBIT REF	TOTAL IMPROVEMENTS	IMPROVEMENTS AVAILABLE FOR	IMPROVEMENTS AVAILABLE FOR	REMAINING IMPROVEMENTS DEVELOPER RESPONSIBILITY	_	LOPER THAT A		LLY AVAILAB	RE THE RESPON LE FOR AREA O NOTES]	_
			COST [SEE NOTE 1]	PFF FEE CREDITS [SEE NOTE 2]	REIMBURSEMENTS [SEE NOTE 4]		TRA VIGNE WEST	TRA VIGNE EAST	AT&T	BRAGG CRANE	BEAR CREEK WEST	BEAR CREEK SOUTH
5	Potable Water System Infrastructure [SEE NOTE 4],[SEE NOTE 6]						14.2%	7.0%	0.4%	0.7%	41.9%	35.9%
5.A	12" Water Main in Eight Mile Road from Marlette Road to Lower Sacramento Road	3.1	\$393,035	\$0	\$0	\$393,035	\$55,845	\$27,337	\$1,478	\$2,873	\$164,578	\$140,924
5.B	24" Water Main in Eight Mile Road from Lower Sacramento Road to West Lane	3.1	\$1,146,420	\$0	\$368,874	\$777,546	\$110,479	\$54,081	\$2,925	\$5,684	\$325,587	\$278,791
5.C	24" Water Main in Eight Mile Road from West Lane to Ham Road	3.1	\$715,711	\$0	\$239,501	\$476,210	\$67,663	\$33,122	\$1,791	\$3,481	\$199,407	\$170,746
5.D	24" Water Main in Eight Mile Road from Ham Road to East End of Tra Vigne East	3.1	\$653,103	\$0	\$217,404	\$435,699	\$61,907	\$30,304	\$1,639	\$3,185	\$182,443	\$156,221
5.E	24" Water Main in West Lane from Eight Mile Road to Bear Creek Undercrossing	3.1	\$1,368,205	\$0	\$423,671	\$944,534	\$134,206	\$65,695	\$3,553	\$6,905	\$395,511	\$338,665
	TOTALS OF SPECIFIC IMPROVEMI	ENTS ===>	\$4,276,473	\$0	\$1,249,449	\$3,027,024	\$430,100	\$210,538	\$11,386	\$22,128	\$1,267,526	\$1,085,346

TRA VIGNE OFF-SITE SHARED INFRASTRUCTURE IMPROVEMENTS SUMMARY

BREAKDOWN OF TOTAL OFF-SITE IMPROVEMENT COSTS, IMPROVEMENTS AVAILABLE FOR PFF FEE CREDITS, AND DETERMINATION REMAINING IMPROVEMENTS AVAILABLE FOR AREA OF BENEFIT REIMBURSEMENTS Engineer'S Estimate of Probable Cost

17	ЕМ	DESCRIPTION	EXHIBIT REF	TOTAL IMPROVEMENTS	IMPROVEMENTS AVAILABLE FOR	IMPROVEMENTS AVAILABLE FOR	REMAINING IMPROVEMENTS DEVELOPER RESPONSIBILITY	_	OPER THAT A		LLY AVAILABI	E THE RESPON LE FOR AREA O NOTES]	_
				COST [SEE NOTE 1]		REIMBURSEMENTS [SEE NOTE 4]		TRA VIGNE WEST	TRA VIGNE EAST	AT&T	BRAGG CRANE	BEAR CREEK WEST	BEAR CREEK SOUTH
	6	West lane / Bear Creek 24" Water Crossing Infrastructure [SEE NOTE 4],[SEE NOTE 6]						14.2%	7.0%	0.4%	0.7%	41.9%	35.9%
(6.A	24" Water Main Undercrossing along West Lane under Bear Creek	3.1	\$556,504	\$0	\$148,500	\$408,004	\$57,972	\$28,378	\$1,535	\$2,983	\$170,846	\$146,291
		TOTALS OF SPECIFIC IMPROVEME	NTS ===>	\$556,504	\$0	\$148,500	\$408,004	\$57,972	\$28,378	\$1,535	\$2,983	\$170,846	\$146,291

ITEI	DESCRIPTION	EXHIBIT REF	TOTAL IMPROVEMENTS	IMPROVEMENTS AVAILABLE FOR	IMPROVEMENTS AVAILABLE FOR	REMAINING IMPROVEMENTS DEVELOPER RESPONSIBILITY	_	LOPER THAT A		LY AVAILABI	RE THE RESPON LE FOR AREA O NOTES]	_
			COST [SEE NOTE 1]		REIMBURSEMENTS [SEE NOTE 4]		TRA VIGNE WEST	TRA VIGNE EAST	AT&T	BRAGG CRANE	BEAR CREEK WEST	BEAR CREEK SOUTH
7	Off-Site Mitigation Improvements [SEE NOTE 4]						14.2%	7.0%	0.4%	0.7%	41.9%	35.9%
7. A	A Part I - Morada Lane - Dedicated Right-Turn Lane 2.6		\$330,635	\$0	\$0	\$330,635	\$46,979	\$22,997	\$1,244	\$2,417	\$138,449	\$118,550
7.E	.B Part II - Lower Sacramento Road Intersection Modifications 2.6		\$282,564	\$0	\$0	\$282,564	\$40,149	\$19,653	\$1,063	\$2,066	\$118,320	\$101,314
	TOTALS OF SPECIFIC IMPROVEMENT	NTS ===>	\$613,199	\$0	\$0	\$613,199	\$87,127	\$42,650	\$2,307	\$4,483	\$256,769	\$219,864

ТЕМ	DESCRIPTION	EXHIBIT REF	TOTAL IMPROVEMENTS	IMPROVEMENTS AVAILABLE FOR	IMPROVEMENTS AVAILABLE FOR	REMAINING IMPROVEMENTS DEVELOPER RESPONSIBILITY	_	LOPER THAT A		LY AVAILABL	E THE RESPON LE FOR AREA O NOTES]	_
			COST [SEE NOTE 1]		REIMBURSEMENTS [SEE NOTE 4]	AND/OR AREA OF BENEFIT	TRA VIGNE WEST	TRA VIGNE EAST	AT&T	BRAGG CRANE	BEAR CREEK WEST	BEAR CREEK SOUTH
	Totals of Project Off-Site and Shared Infrastructure	1.1	\$20,378,942	\$2,933,499	\$2,136,320	\$15,309,116	\$9,338,795	\$1,564,219	\$299,223	\$316,761	\$2,329,300	\$1,460,818

NOTES:

- [1] Above cost estimates include 10% contingency and 35% soft costs.
- Improvements available for PFF Fee Credit assumes that there are sufficient Fee Credits to cover 100% of the improvements that eligible for credit. If it is determined that the PFF Fee Credit will not cover the total of the improvements available for Fee Credit, than the remaining costs should be reimbursed directly from the existing PFF fund through the exection of a reimbursement agreement.
- [3] Cost breakdown for proposed roadway improvements by percentage of project frontages along the said Roadway Improvements
- Sanitary Sewer and Water System Improvements are available for Reimbursement Agreement only and are not available for PFF Fee Credits. Reimbursements for Sanitary Sewer and Water System infrastructure is the cost difference between installing the proposed infrastructure (30" Steel Water, 24" PVC Water, and 24" PVC Sewer) versus the required infrastructure (12" PVC Water and 12" PVC Sewer) to serve the Tra Vigne project.
- [5] Cost breakdown by % of Flow which equal to percentage of Land Area. For Sanitary Sewer Infrastructure Improvements breakdown does not include Bear Creek South in percentage of project area.
- [6] Cost breakdown by % of Flow which equal to percentage of Land Area. For Potable Water System Infrastructure Improvements breakdown includes all Projects
- [7] Cost breakdown by % of Flow which equal to percentage of Land Area. For Storm Drainage Infrastructure Improvements breakdown does not include Bear Creek West and Bear Creek South project area.
- [8] Cost breakdown for proposed improvements by percentage of project area
- [9] Cost breakdown by % of Flow which equal to percentage of Land Area. For In-Tract Backbone Potable Water System Infrastructure Improvements breakdown includes Tra Vigne West, East, AT&T, and Bragg Crane only.

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TRA VIGNE IN-TRACT SHARED INFRASTRUCTURE IMPROVEMENTS SUMMARY

BREAKDOWN OF TOTAL OFF-SITE IMPROVEMENT COSTS, IMPROVEMENTS AVAILABLE FOR PFF FEE CREDITS, AND DETERMINATION REMAINING IMPROVEMENTS AVAILABLE FOR AREA OF BENEFIT REIMBURSEMENTS Engineer's Estimate of Probable Cost

LAND USE AREA BREAKDOWN

TRA VIGNE WEST	TRA VIGNE EAST	AT&T	BRAGG CRANE	BEAR CREEK WEST	CREEK SOUTH
200.2	98	5.3	10.3	590	505.2

BREAKDOWN OF TOTAL IMPROVEMENTS, PFF REIMBURSABLE IMPROVEMENTS, AND AREA OF BENEFIT ANALYSIS

TOTAL IMPROVEMENT COST ===>

ТЕМ	DESCRIPTION	EXHIBIT REF	TOTAL IMPROVEMENTS	IMPROVEMENTS AVAILABLE FOR	IMPROVEMENTS AVAILABLE FOR	REMAINING IMPROVEMENTS DEVELOPER RESPONSIBILITY	_	OPER THAT A		LLY AVAILAB	RE THE RESPONS LE FOR AREA OF NOTES]	_
			COST [SEE NOTE 1]	_	REIMBURSEMENTS [SEE NOTE 4]		TRA VIGNE WEST	TRA VIGNE EAST	AT&T	BRAGG CRANE	BEAR CREEK WEST	CREEK SOUTH
8	Shared Storm Drain Pipes, Basin, and Pump Station Infrastructure					63.8%	31.2%	1.7%	3.3%	0.0%	0.0%	
8.A	Storm Drainage Base Pump Station, Infrastructure, and Treatment 3.1		\$1,485,000	\$0	\$0	\$1,485,000	\$947,409	\$463,767	\$25,081	\$48,743	\$0	\$0
8.B	Storm Drainage Basin Construction 3.1		\$314,084	\$0	\$0	\$314,084	\$200,381	\$98,089	\$5,305	\$10,309	\$0	\$0
8.C	Storm Drainage Basin Fencing, Landscaping and Erosion Control	3.1	\$220,211	\$0	\$0	\$220,211	\$140,491	\$68,772	\$3,719	\$7,228	\$0	\$0

TOTAL IMPROVEMENT COST ===> \$2,019,295 \$0 \$0 \$2,019,295 \$1,288,282 \$630,627 \$34,105 \$66,280 \$0 \$0

ITEM	DESCRIPTION	EXHIBIT REF	TOTAL IMPROVEMENTS	IMPROVEMENTS AVAILABLE FOR	IMPROVEMENTS AVAILABLE FOR	REMAINING IMPROVEMENTS DEVELOPER RESPONSIBILITY	_	OPER THAT A		LLY AVAILAB	RE THE RESPONS LE FOR AREA OF NOTES]	_
			COST [SEE NOTE 1]		REIMBURSEMENTS [SEE NOTE 4]		TRA VIGNE WEST	TRA VIGNE EAST	AT&T	BRAGG CRANE	BEAR CREEK WEST	CREEK SOUTH
9	Tra Vigne West Oversized Backbone Water System Improvements											
9.A	Oversized Water System for Road "A" - Segments (A1), (A2), and (A3)	3.1	\$323,017	\$0	\$80,754	\$403,772	63.8% \$257,601	31.2% \$126,098	1.7% \$6,820	3.3% \$13,253	0.0% \$0	0.0% \$0
9.B	Oversized Water System for Road "B" - Segment (B)	3.1	\$128,839	\$0	\$42,946	\$171,785	63.8% \$109,596	31.2% \$53,649	1.7% \$2,901	3.3% \$5,639	0.0% \$0	0.0% \$0
9.C	Oversized Water System for Road "C" - Segments (C1), (C2), (C3), (C4), and (C5)	3.1	\$267,003	\$0	\$73,656	\$340,659	63.8% \$217,336	31.2% \$106,388	1.7% \$5,754	3.3% \$11,182	0.0% \$0	0.0% \$0
9.D	Oversized Water System for Roads "AA", "BB" AND "FF" - Segments (BB1), (BB2), (BB3), (AA), and (FF)	3.1	\$83,160	\$0	\$20,790	\$103,950	63.8% \$66,319	31.2% \$32,464	1.7% \$1,756	3.3% \$3,412	0.0% \$0	0.0% \$0

\$0

\$802,019

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\$218,147

\$1,020,165

\$650,851

\$318,598

\$17,230

\$33,485

\$0

\$0

TRA VIGNE IN-TRACT SHARED INFRASTRUCTURE IMPROVEMENTS SUMMARY

BREAKDOWN OF TOTAL OFF-SITE IMPROVEMENT COSTS, IMPROVEMENTS AVAILABLE FOR PFF FEE CREDITS, AND DETERMINATION REMAINING IMPROVEMENTS AVAILABLE FOR AREA OF BENEFIT REIMBURSEMENTS Engineer's Estimate of Probable Cost

ITEM	DESCRIPTION	EXHIBIT REF	TOTAL IMPROVEMENTS	IMPROVEMENTS AVAILABLE FOR	IMPROVEMENTS AVAILABLE FOR	REMAINING IMPROVEMENTS DEVELOPER RESPONSIBILITY		OPER THAT A		LLY AVAILAB	RE THE RESPONS LE FOR AREA OF NOTES]	
			COST [SEE NOTE 1]	_	REIMBURSEMENTS [SEE NOTE 4]			TRA VIGNE EAST	AT&T	BRAGG CRANE	BEAR CREEK WEST	CREEK SOUTH
10	Tra Vigne West In-Tract Parks, Landscaping, Open Space, and Recreational Improveme	ents										
10.A	In-Tract Park Landscaping Improvements (Does Not Include Major Amenities)	3.1 , 4.1 5.1	\$4,419,771	\$4,419,771	\$0	\$0	0.0% \$0	0.0% \$0	0.0% \$0	0.0% \$0	0.0% \$0	0.0% \$0
	TOTAL IMPROVEMENT COST ===>	,	\$4,419,771	\$4,419,771	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

דו	ГЕМ	DESCRIPTION	EXHIBIT REF	TOTAL IMPROVEMENTS	IMPROVEMENTS AVAILABLE FOR	IMPROVEMENTS AVAILABLE FOR	REMAINING IMPROVEMENTS DEVELOPER RESPONSIBILITY	_	LOPER THAT A		LLY AVAILAB	RE THE RESPONS LE FOR AREA OF NOTES]	_
				COST [SEE NOTE 1]		REIMBURSEMENTS [SEE NOTE 4]		TRA VIGNE WEST	TRA VIGNE EAST	AT&T	BRAGG CRANE	BEAR CREEK WEST	CREEK SOUTH
	13	Tra Vigne East Oversized Backbone Water System Improvements											
1:	3.A	Oversized Water System for Backbone Roads	3.1	\$414,137	\$0	\$103,534	\$310,603	0.0% \$0	86.3% \$267,949	4.7% \$14,491	9.1% \$28,162	0.0% \$0	0.0% \$0
		TOTAL IMPROVEMENT COST ===>	\$414,137	\$0	\$103,534	\$310,603	\$0	\$267,949	\$14,491	\$28,162	\$0	\$0	

ITE	EM	DESCRIPTION	EXHIBIT REF	TOTAL IMPROVEMENTS	IMPROVEMENTS AVAILABLE FOR	IMPROVEMENTS AVAILABLE FOR	REMAINING IMPROVEMENTS DEVELOPER RESPONSIBILITY	_	OPER THAT A		LY AVAILABI	E THE RESPONS LE FOR AREA OF NOTES]	_
				COST [SEE NOTE 1]	_	REIMBURSEMENTS [SEE NOTE 4]		TRA VIGNE WEST	TRA VIGNE EAST	AT&T	BRAGG CRANE	BEAR CREEK WEST	CREEK SOUTH
14	4 T	Tra Vigne East In-Tract Parks, Landscaping, Open Space, and Recreational Improvements											
14.	.A Ir	n-Tract Park Landscaping Improvements (Does Not Include Major Amenities)	3.1 , 4.1 5.1	\$3,273,650	\$3,273,650	\$0	\$0	0.0% \$0	0.0% \$0	0.0% \$0	0.0% \$0	0.0% \$0	0.0% \$0

TOTAL IMPROVEMENT COST ===> \$3,273,650 \$3,273,650 \$0 \$0 \$0 \$0 \$0 \$0 \$0

TRA VIGNE IN-TRACT SHARED INFRASTRUCTURE IMPROVEMENTS SUMMARY

BREAKDOWN OF TOTAL OFF-SITE IMPROVEMENT COSTS, IMPROVEMENTS AVAILABLE FOR PFF FEE CREDITS, AND DETERMINATION REMAINING IMPROVEMENTS AVAILABLE FOR AREA OF BENEFIT REIMBURSEMENTS Engineer's Estimate of Probable Cost

IT	ЕМ	DESCRIPTION	EXHIBIT REF	TOTAL IMPROVEMENTS	IMPROVEMENTS AVAILABLE FOR	IMPROVEMENTS AVAILABLE FOR	REMAINING IMPROVEMENTS DEVELOPER RESPONSIBILITY	_	LOPER THAT A		LLY AVAILABI	E THE RESPON LE FOR AREA OI NOTES]	_
				COST [SEE NOTE 1]	_	REIMBURSEMENTS			TRA VIGNE EAST	AT&T	BRAGG CRANE	BEAR CREEK WEST	CREEK SOUTH
	-	Totals of Project In-Tract and Shared Infrastructure		\$10,928,872	\$7,693,421	\$321,681	\$3,350,063	\$1,939,133	\$1,217,175	\$65,827	\$127,928	\$0	\$0

NOTES:

- [1] Above cost estimates include 10% contingency and 35% soft costs.
- [2] Improvements available for PFF Fee Credit assumes that there are sufficient Fee Credits to cover 100% of the improvements that eligible for credit. If it is determined that the PFF Fee Credit will not cover the total of the improvements available for Fee Credit, than the remaining costs should be reimbursed directly from the existing PFF fund through the exection of a reimbursement agreement.
- [3] Cost breakdown for proposed roadway improvements by percentage of project frontages along the said Roadway Improvements
- Sanitary Sewer and Water System Improvements are available for Reimbursement Agreement only and are not available for PFF Fee Credits. Reimbursements for Sanitary Sewer and Water System infrastructure is the cost difference between installing the proposed infrastructure (30" Steel Water, 24" PVC Water, and 24" PVC Sewer) versus the required infrastructure (12" PVC Water and 12" PVC Sewer) to serve the Tra Vigne project.
- [5] Cost breakdown by % of Flow which equal to percentage of Land Area. For Sanitary Sewer Infrastructure Improvements breakdown does not include Bear Creek South in percentage of project area.
- [6] Cost breakdown by % of Flow which equal to percentage of Land Area. For Potable Water System Infrastructure Improvements breakdown includes all Projects
- [7] Cost breakdown by % of Flow which equal to percentage of Land Area. For Storm Drainage Infrastructure Improvements breakdown does not include Bear Creek West and Bear Creek South project area.
- [8] Cost breakdown for proposed improvements by percentage of project area
- [9] Cost breakdown by % of Flow which equal to percentage of Land Area. For In-Tract Backbone Potable Water System Infrastructure Improvements breakdown includes Tra Vigne West, East, AT&T, and Bragg Crane only.

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Tra Vigne (West & East)Engineer's Estimate of Probable Cost

Off-Site West Lane Total Street Improvements

ITEM DESCRIPTION QUANTITY **UNIT COST** COST Off-Site West Lane Street Improvements from Eight Mile Road to Road "B" (Includes Road "B" Intersection) **West Lane Street Improvements** Clearing, Grubbing, and Disposal 1.6 \$995.00 AC \$1,592.00 Sawcut Existing Pavement 5,750 \$2.00 LF \$11,500.00 Remove and Dispose of Existing Pavement \$30,285.00 10,095 \$3.00 SF Relocation of Overhead Utilities Poles 4. \$25,000.00 EA \$175,000.00 1.626 \$13,008.00 5. Remove Existing Curb \$8.00 LF Remove Existing Headwalls and Culverts 6. 0 \$25,000.00 LS \$0.00 Rough Grading - Street Right-of-Way 3.896 \$17,532.00 7. \$4.50 CY 8. Street Fine Grading 72,183 \$0.40 SF \$28,873.20 **Erosion Control Improvements** 1.6 \$2,000.00 AC \$3,200.00 9. Mobilization - Major Infrastructure 1 \$30,000.00 LS \$30,000.00 10. 11. Traffic Control 100 \$2,200.00 DAY \$220,000.00 12. 4.0" AC over 14.5" AB Pavement 72,183 \$5.10 SF \$368,133.30 3" AC Grind and Overlay 13. 119,807 \$2.00 SF \$239,614.00 6" Vertical Curb and Gutter 2,039 \$19.50 LF \$39,760.50 14. 15. 8" Median Curb 1,486 \$18.60 LF \$27,639.60 5" PCC Concrete Walk (Includes Ramps and Returns) 15.732 \$5.00 SF \$78.660.00 ADA Ramp (Labor and Truncated Domes Only) 6 \$1,900.00 EA \$11,400.00 17. 200 Watt Electrolier 8 \$6,166.67 EA \$49,333.33 19. Street Monuments 3 \$310.00 EA \$930.00 Traffic Delineation (Striping and Stop bars) 20. 17,213 \$1.75 LF \$30,122.75 \$450.00 EA 21. Traffic Arrows 19 \$8,550.00 Striping - Intersection \$10,000.00 LS \$10,000.00 22. 1 Street Name and Directional Signs 2 \$380.00 EA \$760.00 Landscape w/ Irrigation (Streetscape) 7,846 \$5.00 SF \$39,230.00 Entry Monument (Minor) \$50,000.00 EA \$50,000.00 Street Barricade 26. 3 \$750.00 EA \$2,250.00 Underground Existing 12 KVA Utility Poles 0 \$250.00 LF 27. \$0.00 Joint Trench Main 28. 2.044 \$150.00 LF \$306,600.00

CONSTRUCTION SUB-TOTAL ===> \$1,793,973.68

CONTINGENCY - 10% ===> <u>\$179,397.37</u> CONSTRUCTION TOTAL ===> \$1,973,371.05

SOFT COSTS - 35% ===> \$690,679.87 CONSTRUCTION GRAND TOTAL ===> \$2,664,050.92

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ITEM DESCRIPTION QUANTITY UNIT COST COST

Off-Site West Lane Street Improvements from Road "B" to Bear Creek

Α.	West	Lane	Street	Impro	vement	S

Α.	west Lane Street improvements			
1.	Clearing, Grubbing, and Disposal	1.6	\$995.00 AC	\$1,592.00
2.	Sawcut Existing Pavement	9,002	\$2.00 LF	\$18,004.00
3.	Remove and Dispose of Existing Pavement	17,511	\$3.00 SF	\$52,533.00
4.	Relocation of Overhead Utilities Poles	7	\$25,000.00 EA	\$175,000.00
5.	Remove Existing Curb	0	\$8.00 LF	\$0.00
6.	Remove Existing Headwalls and Culverts	1	\$25,000.00 LS	\$25,000.00
7.	Rough Grading - Street Right-of-Way	3,912	\$4.50 CY	\$17,604.00
8.	Street Fine Grading	58,352	\$0.40 SF	\$23,340.80
9.	Erosion Control Improvements	1.6	\$2,000.00 AC	\$3,200.00
10.	Mobilization - Major Infrastructure	1	\$30,000.00 LS	\$30,000.00
11.	Traffic Control	100	\$2,200.00 DAY	\$220,000.00
12.	4.0" AC over 14.5" AB Pavement	58,352	\$5.10 SF	\$297,595.20
13.	3" AC Grind and Overlay	158,831	\$2.00 SF	\$317,662.00
14.	6" Vertical Curb and Gutter	2,340	\$19.50 LF	\$45,630.00
15.	8" Median Curb	1,495	\$18.60 LF	\$27,807.00
16.	5" PCC Concrete Walk (Includes Ramps and Returns)	18,993	\$5.00 SF	\$94,965.00
17.	ADA Ramp (Labor and Truncated Domes Only)	2	\$1,900.00 EA	\$3,800.00
18.	200 Watt Electrolier	8	\$6,166.67 EA	\$49,333.33
19.	Street Monuments	2	\$310.00 EA	\$620.00
20.	Traffic Delineation (Striping and Stop bars)	17,872	\$1.75 LF	\$31,276.00
21.	Traffic Arrows	19	\$450.00 EA	\$8,550.00
22.	Striping - Intersection	1	\$10,000.00 LS	\$10,000.00
23.	Street Name and Directional Signs	2	\$380.00 EA	\$760.00
24.	Landscape w/ Irrigation (Streetscape)	10,105	\$5.00 SF	\$50,525.00
25.	Entry Monument (Minor)	1	\$50,000.00 EA	\$50,000.00
26.	Street Barricade	1	\$750.00 EA	\$750.00
27.	Underground Existing 12 KVA Utility Poles	2,100	\$250.00 LF	\$525,000.00
28.	Joint Trench Main	2,386	\$150.00 LF	\$357,900.00
	· · · · · · · · · · · · · · · · · · ·	·	·	·

CONSTRUCTION SUB-TOTAL ===> \$2,438,447.33

CONTINGENCY - 10% ===> <u>\$243,844.73</u> CONSTRUCTION TOTAL ===> \$2,682,292.07

SOFT COSTS - 35% ===> \$938,802.22 CONSTRUCTION GRAND TOTAL ===> \$3,621,094.29

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ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
	Traffic Signal Improvements Only at the Interse	ection of Wes	t Lane and Road "B"	
A.	TRAFFIC SIGNAL AT ROAD 'B':			
1.	Traffic Signal and Controls	1	\$350,000.00 EA	\$350,000.00
	CC	DNSTRUCTIO	N SUB-TOTAL ===>	\$350,000.00
		CONTI	NGENCY - 10% ===> _	\$35,000.00
		CONSTRU	JCTION TOTAL ===>	\$385,000.00
		SOF	Γ COSTS - 35% ===> _	\$134,750.00
	CONS	STRUCTION (GRAND TOTAL ===>	\$519,750.00

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Tra Vigne (West & East) Engineer's Estimate of Probable Cost

Off-Site West Lane PFF Street Improvements Available for Fee Credits

ITEM DESCRIPTION QUANTITY UNIT COST COST

Off-Site West Lane Street Improvements from Eight Mile Road to Road "B" (Includes Road "B" Intersection)

A.	West Lane Street Improvements			
1.	Clearing, Grubbing, and Disposal	0	\$995.00 AC	\$0.00
2.	Sawcut Existing Pavement	0	\$2.00 LF	\$0.00
3.	Remove and Dispose of Existing Pavement	0	\$3.00 SF	\$0.00
4.	Relocation of Overhead Utilities Poles	0	\$25,000.00 EA	\$0.00
5.	Remove Existing Curb	0	\$8.00 LF	\$0.00
6.	Remove Existing Headwalls and Culverts	0	\$25,000.00 LS	\$0.00
7.	Rough Grading - Street Right-of-Way	0	\$4.50 CY	\$0.00
8.	Street Fine Grading	22,825	\$0.40 SF	\$9,130.00
9.	Erosion Control Improvements	0	\$2,000.00 AC	\$0.00
10.	Mobilization - Major Infrastructure	0	\$30,000.00 LS	\$0.00
11.	Traffic Control	0	\$2,200.00 DAY	\$0.00
12.	4.0" AC over 14.5" AB Pavement	22,825	\$5.10 SF	\$116,407.50
13.	3" AC Grind and Overlay	3,805	\$2.00 SF	\$7,610.00
14.	6" Vertical Curb and Gutter	0	\$19.50 LF	\$0.00
15.	8" Median Curb	1,486	\$18.60 LF	\$27,639.60
16.	5" PCC Concrete Walk (Includes Ramps and Returns)	0	\$5.00 SF	\$0.00
17.	ADA Ramp (Labor and Truncated Domes Only)	0	\$1,900.00 EA	\$0.00
18.	200 Watt Electrolier	0	\$6,166.67 EA	\$0.00
19.	Street Monuments	0	\$310.00 EA	\$0.00
20.	Traffic Delineation (Striping and Stop bars)	0	\$1.75 EA	\$0.00
21.	Traffic Arrows	0	\$450.00 EA	\$0.00
22.	Striping - Intersection	0	\$10,000.00 LS	\$0.00
23.	Street Name and Directional Signs	0	\$380.00 EA	\$0.00
24.	Landscape w/ Irrigation (Streetscape)	0	\$5.00 SF	\$0.00
25.	Entry Monument (Minor)	0	\$50,000.00 EA	\$0.00
26.	Street Barricade	0	\$750.00 EA	\$0.00
27.	Underground Existing 12 KVA Utility Poles	0	\$250.00 LF	\$0.00
28.	Joint Trench Main	0	\$150.00 LF	\$0.00

CONSTRUCTION SUB-TOTAL ===> \$160,787.10

CONTINGENCY - 10% ===> \$16,078.71 CONSTRUCTION TOTAL ===> \$176,865.81

SOFT COSTS - 35% ===> <u>\$61,903.03</u> CONSTRUCTION GRAND TOTAL ===> \$238,768.84

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ITEM DESCRIPTION QUANTITY UNIT COST COST

Off-Site West Lane Street Improvements from Road "B" to Bear Creek

A. West Lane Street improvements	A.	West	Lane	Street	Improvements
----------------------------------	----	------	------	--------	--------------

A.	west Lane Street improvements			
1.	Clearing, Grubbing, and Disposal	0	\$995.00 AC	\$0.00
2.	Sawcut Existing Pavement	5,922	\$2.00 LF	\$11,844.00
3.	Remove and Dispose of Existing Pavement	6,618	\$3.00 SF	\$19,854.00
4.	Relocation of Overhead Utilities Poles	0	\$25,000.00 EA	\$0.00
5.	Remove Existing Curb	0	\$8.00 LF	\$0.00
6.	Remove Existing Headwalls and Culverts	0	\$25,000.00 LS	\$0.00
7.	Rough Grading - Street Right-of-Way	0	\$4.50 CY	\$0.00
8.	Street Fine Grading	29,509	\$0.40 SF	\$11,803.60
9.	Erosion Control Improvements	0	\$2,000.00 AC	\$0.00
10.	Mobilization - Major Infrastructure	0	\$30,000.00 LS	\$0.00
11.	Traffic Control	0	\$2,200.00 DAY	\$0.00
12.	4.0" AC over 14.5" AB Pavement	29,509	\$5.10 SF	\$150,495.90
13.	3" AC Grind and Overlay	20,370	\$2.00 SF	\$40,740.00
14.	6" Vertical Curb and Gutter	0	\$19.50 LF	\$0.00
15.	8" Median Curb	1,495	\$18.60 LF	\$27,807.00
16.	5" PCC Concrete Walk (Includes Ramps and Returns)	0	\$5.00 SF	\$0.00
17.	ADA Ramp (Labor and Truncated Domes Only)	0	\$1,900.00 EA	\$0.00
18.	200 Watt Electrolier	0	\$6,166.67 EA	\$0.00
19.	Street Monuments	0	\$310.00 EA	\$0.00
20.	Traffic Delineation (Striping and Stop bars)	0	\$1.75 EA	\$0.00
21.	Traffic Arrows	0	\$450.00 EA	\$0.00
22.	Striping - Intersection	0	\$10,000.00 LS	\$0.00
23.	Street Name and Directional Signs	0	\$380.00 EA	\$0.00
24.	Landscape w/ Irrigation (Streetscape)	0	\$5.00 SF	\$0.00
25.	Entry Monument (Minor)	0	\$50,000.00 EA	\$0.00
26.	Street Barricade	0	\$750.00 EA	\$0.00
27.	Underground Existing 12 KVA Utility Poles	0	\$250.00 LF	\$0.00
28.	Joint Trench Main	0	\$150.00 LF	\$0.00

CONSTRUCTION SUB-TOTAL ===> \$262,544.50

CONTINGENCY - 10% ===> \$26,254.45 CONSTRUCTION TOTAL ===> \$288,798.95

SOFT COSTS - 35% ===> \$101,079.63 CONSTRUCTION GRAND TOTAL ===> \$389,878.58

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ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
	Traffic Signal Improvements Only at the	Intersection of West	Lane and Road "B"	
A.	TRAFFIC SIGNAL AT ROAD 'B':			
1.	Traffic Signal and Controls	0	\$350,000.00 EA	\$0.00
		CONSTRUCTION	N SUB-TOTAL ===>	\$0.00
		CONTIN	GENCY - 10% ===>_	\$0.00
			CTION TOTAL ===>	\$0.00
		SOFT	COSTS - 35% ===> _	\$0.00
		CONSTRUCTION G	RAND TOTAL ===>	\$0.00

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Tra Vigne (West & East)Engineer's Estimate of Probable Cost

Off-Site West Lane Developer Responsible Street Improvements

ITEM DESCRIPTION QUANTITY UNIT COST COST

Off-Site West Lane Street Improvements from Eight Mile Road to Road "B" (Includes Road "B" Intersection)

A.	West Lane Street Improvements			
1.	Clearing, Grubbing, and Disposal	1.6	\$995.00 AC	\$1,592.00
2.	Sawcut Existing Pavement	5,750	\$2.00 LF	\$11,500.00
3.	Remove and Dispose of Existing Pavement	10,095	\$3.00 SF	\$30,285.00
4.	Relocation of Overhead Utilities Poles	7	\$25,000.00 EA	\$175,000.00
5.	Remove Existing Curb	1,626	\$8.00 LF	\$13,008.00
6.	Remove Existing Headwalls and Culverts	0	\$25,000.00 LS	\$0.00
7.	Rough Grading - Street Right-of-Way	3,896	\$4.50 CY	\$17,532.00
8.	Street Fine Grading	49,358	\$0.40 SF	\$19,743.20
9.	Erosion Control Improvements	1.6	\$2,000.00 AC	\$3,200.00
10.	Mobilization - Major Infrastructure	1	\$30,000.00 LS	\$30,000.00
11.	Traffic Control	100	\$2,200.00 DAY	\$220,000.00
12.	4.0" AC over 14.5" AB Pavement	49,358	\$5.10 SF	\$251,725.80
13.	3" AC Grind and Overlay	116,002	\$2.00 SF	\$232,004.00
14.	6" Vertical Curb and Gutter	2,039	\$19.50 LF	\$39,760.50
15.	8" Median Curb	0	\$18.60 LF	\$0.00
16.	5" PCC Concrete Walk (Includes Ramps and Returns)	15,732	\$5.00 SF	\$78,660.00
17.	ADA Ramp (Labor and Truncated Domes Only)	6	\$1,900.00 EA	\$11,400.00
18.	200 Watt Electrolier	8	\$6,166.67 EA	\$49,333.33
19.	Street Monuments	3	\$310.00 EA	\$930.00
20.	Traffic Delineation (Striping and Stop bars)	17,213	\$1.75 EA	\$30,122.75
21.	Traffic Arrows	19	\$450.00 EA	\$8,550.00
22.	Striping - Intersection	1	\$10,000.00 LS	\$10,000.00
23.	Street Name and Directional Signs	2	\$380.00 EA	\$760.00
24.	Landscape w/ Irrigation (Streetscape)	7,846	\$5.00 SF	\$39,230.00
25.	Entry Monument (Minor)	1	\$50,000.00 EA	\$50,000.00
26.	Street Barricade	3	\$750.00 EA	\$2,250.00
27.	Underground Existing 12 KVA Utility Poles	0	\$250.00 LF	\$0.00
28.	Joint Trench Main	2,044	\$150.00 LF	\$306,600.00

CONSTRUCTION SUB-TOTAL ===> \$1,633,186.58

CONTINGENCY - 10% ===> \$163,318.66 CONSTRUCTION TOTAL ===> \$1,796,505.24

SOFT COSTS - 35% ===> \$628,776.83 CONSTRUCTION GRAND TOTAL ===> \$2,425,282.08

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ITEM DESCRIPTION QUANTITY UNIT COST COST

Off-Site West Lane Street Improvements from Road "B" to Bear Creek

A.	West Lane Street Improvements			
1.	Clearing, Grubbing, and Disposal	1.6	\$995.00 AC	\$1,592.00
2.	Sawcut Existing Pavement	3,080	\$2.00 LF	\$6,160.00
3.	Remove and Dispose of Existing Pavement	10,893	\$3.00 SF	\$32,679.00
4.	Relocation of Overhead Utilities Poles	7	\$25,000.00 EA	\$175,000.00
5.	Remove Existing Curb	0	\$8.00 LF	\$0.00
6.	Remove Existing Headwalls and Culverts	1	\$25,000.00 LS	\$25,000.00
7.	Rough Grading - Street Right-of-Way	3,912	\$4.50 CY	\$17,604.00
8.	Street Fine Grading	28,843	\$0.40 SF	\$11,537.20
9.	Erosion Control Improvements	1.6	\$2,000.00 AC	\$3,200.00
10.	Mobilization - Major Infrastructure	1	\$30,000.00 LS	\$30,000.00
11.	Traffic Control	100	\$2,200.00 DAY	\$220,000.00
12.	4.0" AC over 14.5" AB Pavement	28,843	\$5.10 SF	\$147,099.30
13.	3" AC Grind and Overlay	138,461	\$2.00 SF	\$276,922.00
14.	6" Vertical Curb and Gutter	2,340	\$19.50 LF	\$45,630.00
15.	8" Median Curb	0	\$18.60 LF	\$0.00
16.	5" PCC Concrete Walk (Includes Ramps and Returns)	18,993	\$5.00 SF	\$94,965.00
17.	ADA Ramp (Labor and Truncated Domes Only)	2	\$1,900.00 EA	\$3,800.00
18.	200 Watt Electrolier	8	\$6,166.67 EA	\$49,333.33
19.	Street Monuments	2	\$310.00 EA	\$620.00
20.	Traffic Delineation (Striping and Stop bars)	17,872	\$1.75 EA	\$31,276.00
21.	Traffic Arrows	19	\$450.00 EA	\$8,550.00
22.	Striping - Intersection	1	\$10,000.00 LS	\$10,000.00
23.	Street Name and Directional Signs	2	\$380.00 EA	\$760.00
24.	Landscape w/ Irrigation (Streetscape)	10,105	\$5.00 SF	\$50,525.00
25.	Entry Monument (Minor)	1	\$50,000.00 EA	\$50,000.00
26.	Street Barricade	1	\$750.00 EA	\$750.00
27.	Underground Existing 12 KVA Utility Poles	2,100	\$250.00 LF	\$525,000.00
28.	Joint Trench Main	2,386	\$150.00 LF	\$357,900.00

CONSTRUCTION SUB-TOTAL ===> \$2,175,902.83

CONTINGENCY - 10% ===> \$217,590.28 CONSTRUCTION TOTAL ===> \$2,393,493.12

SOFT COSTS - 35% ===> <u>\$837,722.59</u> CONSTRUCTION GRAND TOTAL ===> \$3,231,215.71

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ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
	Traffic Signal Improvements Only at the	e Intersection of We	st Lane and Road "B"	
A. TRAFFI	IC SIGNAL AT ROAD 'B':			
1. Traffic S	Signal and Controls	1	\$350,000.00 EA	\$350,000.00
		CONSTRUCTIO	N SUB-TOTAL ===>	\$350,000.00
		CONTI	NGENCY - 10% ===>	\$35,000.00
CONSTRUCTION TOTAL ===>				
SOFT COSTS - 35% ===> CONSTRUCTION GRAND TOTAL ===>				\$134,750.00 \$519,750.00

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Street Name and Directional Signs

Entry Monument (Minor)

Street Barricade

Joint Trench Main

Landscape w/ Irrigation (Streetscape)

Relocation of Overhead Utilities Poles

19.

21.

22.

23.

24.

Tra Vigne (West & East)

Engineer's Estimate of Probable Cost

Off-Site 8 Mile Rd Total Street Improvements

ITEM **DESCRIPTION UNIT COST** QUANTITY COST Off-Site Eight Mile Road Street Improvements from West Lane to Ham Road **WEST LANE TO HAM ROAD** Street Improvements Clearing, Grubbing, and Disposal 5 \$15,000.00 LS \$79,200.00 2. Sawcut Existing Pavement 2,490 \$2.00 LF \$4,980.00 Remove and Dispose of Existing Pavement 4.982 \$3.00 SF \$14,946.00 3. Remove Irrigation Culvert 17 \$16.67 EA 4. \$283.33 Rough Grading - Street Right-of-Way 6,052 \$4.50 CY \$27,234.00 5. Street Fine Grading 132,562 \$0.40 SF \$53,024.80 6. **Erosion Control Improvements** 7. 7 \$2,000.00 AC \$13,000.00 Mobilization - Major Infrastructure 8. 1 \$30,000.00 LS \$30,000.00 80 9. Traffic Control \$2,200.00 DAY \$176,000.00 10. 4.0" AC over 14.5" AB Pavement 132,562 \$5.10 SF \$676,066.20 3" AC Grind and Overlay 77,842 \$2.00 SF \$155,684.00 11. 6" Vertical Curb and Gutter \$19.50 LF 12. 2,494 \$48,633.00 5" PCC Concrete Walk (Includes Ramps and Returns) 13. 19,518 \$5.00 SF \$97,590.00 ADA Ramp (Labor and Truncated Domes Only) \$1,900.00 EA \$20,900.00 11 15. 200 Watt Electrolier 9 \$6.166.67 EA \$55.500.00 Street Monuments 2 \$310.00 EA \$620.00 16. 17. Traffic Delineation (Striping and Stop bars) 13,221 \$1.75 EA \$23,136.75 Traffic Arrows 24 \$450.00 EA \$10,800.00 18.

CONSTRUCTION SUB-TOTAL ===> \$2,022,918.08

\$25,000.00 EA

\$380.00 EA

\$750.00 EA

\$150.00 LF

\$50,000.00 EA

\$5.00 SF

\$1,520.00

\$78,550.00

\$50,000.00

\$376,500.00

\$25,000.00

\$3,750.00

4

15,710

1

5

2,510

1

CONTINGENCY - 10% ===> \$202,291.81 CONSTRUCTION TOTAL ===> \$2,225,209.89

SOFT COSTS - 35% ===> <u>\$778,823.46</u> CONSTRUCTION GRAND TOTAL ===> \$3,004,033.35

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ITEM DESCRIPTION QUANTITY UNIT COST COST

Off-Site Eight Mile Road Street Improvements from Ham Road to Leach Road

A. HAM ROAD TO LEACH ROAD

1.	Street Improvements Clearing, Grubbing, and Disposal	1	\$15,000.00 LS	\$15,000.00
2.	Sawcut Existing Pavement	1,647	\$2.00 LF	\$3,294.00
3.	Remove Existing Pavement	3,295	\$3.00 SF	\$9,885.00
4.	Remove Irrigation Culvert	3	\$16.67 EA	\$50.00
5.	Rough Grading - Street Right-of-Way	5,092	\$4.50 CY	\$22,914.00
6.	Street Fine Grading	75,370	\$0.40 SF	\$30,148.00
7.	SWPPP Maintenance	1	\$7,500.00 LS	\$7,500.00
8.	Traffic Control	80	\$2,200.00 DAY	\$176,000.00
9.	6" Vertical Curb and Gutter	1,511	\$19.50 LF	\$29,464.50
10.	8" Median Curb	0	\$18.60 LF	\$0.00
11.	5" PCC Concrete Walk (Includes Ramps and Returns)	8,081	\$5.00 SF	\$40,405.00
12.	ADA Ramp (Labor and Truncated Domes Only)	2	\$1,900.00 EA	\$3,800.00
13.	4.0" AC over 14.5" AB Pavement	75,370	\$5.10 SF	\$384,387.00
14.	3" AC Grind and Overlay	66,968	\$2.00 SF	\$133,936.00
15.	Street Monuments	2	\$310.00 EA	\$620.00
16.	Landscape w/ Irrigation (Streetscape)	5,182	\$5.00 SF	\$25,910.00
17.	200 Watt Electrolier	5	\$6,166.67 EA	\$30,833.33
18.	Traffic Delineation (Striping and Stop bars)	7,725	\$1.75 EA	\$13,518.75
19.	Traffic Arrows	10	\$450.00 EA	\$4,500.00
20.	Joint Trench Main	1,440	\$150.00 LF	\$216,000.00
21.	Relocation of Overhead Utilities Poles	7	\$25,000.00 EA	\$175,000.00
22.	Right of Way Dedication at AT&T and Bragg Frontage	15,494	\$8.00 SF	\$123,952.00

CONSTRUCTION SUB-TOTAL ===> \$1,447,117.58

CONTINGENCY - 10% ===> \$\frac{\$144,711.76}{\$1,591,829.34}\$

SOFT COSTS - 35% ===> <u>\$557,140.27</u> CONSTRUCTION GRAND TOTAL ===> \$2,148,969.61

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ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
	Traffic Signal Improvements Only at the Intersec	tion of 8-Mile	Road and Road "C"	
A.	TRAFFIC SIGNAL AT ROAD "C":			
1.	Traffic Signal and Controls	1	\$350,000.00 EA	\$350,000.00
	C	ONSTRUCTION	ON SUB-TOTAL ===>	\$350,000.00
		CONTI	NGENCY - 10% ===>_	\$35,000.00
			UCTION TOTAL ===>	\$385,000.00
		SOF	T COSTS - 35% ===> _	\$134,750.00
	CON	STRUCTION	GRAND TOTAL ===>	\$519,750.00

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ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
	Traffic Signal Improvements Only at the Intersect	tion of 8-Mile	Road and Leach Road	
A.	TRAFFIC SIGNAL AT LEACH ROAD:			
1.	Traffic Signal and Controls	1	\$350,000.00 EA	\$350,000.00
		CONSTRUCTION	ON SUB-TOTAL ===>	\$350,000.00
		CONT	INGENCY - 10% ===>_	\$35,000.00
		CONSTR	UCTION TOTAL ===>	\$385,000.00
	COI		T COSTS - 35% ===> GRAND TOTAL ===>	\$134,750.00 \$519,750.00

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ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
	RTD Bus Stop along Eight-Mile Road adjace	ent to Comm	ercial Land Use	
A.	RTD BUS STOP:			
1.	RTD Bus Stop	1	\$17,500.00 EA	\$17,500.00
	C	ONSTRUCTIO	ON SUB-TOTAL ===>	\$17,500.00
		CONTI	NGENCY - 10% ===>_	\$1,750.00
			UCTION TOTAL ===>	\$19,250.00
		SOF	T COSTS - 35% ===> _	\$6,737.50
	CON	STRUCTION	GRAND TOTAL ===>	\$25,987.50

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Tra Vigne (West & East)

Engineer's Estimate of Probable Cost

	Off-Site 8 Mile Rd PFF Street Improvements Available for Fee Credits				
ITEM	DESCRIPTION	QUANTITY	UNIT COST	соѕт	
	Off-Site Eight Mile Road Street Improvemen	ts from West L	ane to Ham Road		
Α.	WEST LANE TO HAM ROAD				
1.	Street Improvements Clearing, Grubbing, and Disposal	3	\$15,000.00 LS	\$49,200.00	
2.	Sawcut Existing Pavement	2,490	\$2.00 LF	\$4,980.00	
3.	Remove and Dispose of Existing Pavement	4,982	\$3.00 SF	\$14,946.00	
4.	Remove Irrigation Culvert	17	\$16.67 EA	\$283.33	
5.	Rough Grading - Street Right-of-Way	3,710	\$4.50 CY	\$16,695.00	
6.	Street Fine Grading	64,981	\$0.40 SF	\$25,992.40	
7.	Erosion Control Improvements	5	\$2,000.00 AC	\$9,000.00	
8.	Mobilization - Major Infrastructure	0	\$30,000.00 LS	\$0.00	
9.	Traffic Control	40	\$2,200.00 DAY	\$88,000.00	
10.	4.0" AC over 14.5" AB Pavement	64,981	\$5.10 SF	\$331,403.10	
11.	3" AC Grind and Overlay	0	\$2.00 SF	\$0.00	
12.	6" Vertical Curb and Gutter	0	\$19.50 LF	\$0.00	
13.	5" PCC Concrete Walk (Includes Ramps and Returns)	0	\$5.00 SF	\$0.00	
14.	ADA Ramp (Labor and Truncated Domes Only)	0	\$1,900.00 EA	\$0.00	
15.	200 Watt Electrolier	0	\$6,166.67 EA	\$0.00	
16.	Street Monuments	2	\$310.00 EA	\$620.00	
17.	Traffic Delineation (Striping and Stop bars)	0	\$1.75 EA	\$0.00	
18.	Traffic Arrows	0	\$450.00 EA	\$0.00	
19.	Street Name and Directional Signs	0	\$380.00 EA	\$0.00	
20.	Landscape w/ Irrigation (Streetscape)	0	\$5.00 SF	\$0.00	
21.	Entry Monument (Minor)	0	\$50,000.00 EA	\$0.00	
22.	Street Barricade	0	\$750.00 EA	\$0.00	
23.	Joint Trench Main	0	\$150.00 LF	\$0.00	
24.	Relocation of Overhead Utilities Poles	0	\$25,000.00 EA	\$0.00	

CONSTRUCTION SUB-TOTAL ===> \$541,119.83

CONTINGENCY - 10% ===> <u>\$54,111.98</u> CONSTRUCTION TOTAL ===> \$595,231.82

SOFT COSTS - 35% ===> <u>\$208,331.14</u> CONSTRUCTION GRAND TOTAL ===> \$803,562.95

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ITEM DESCRIPTION QUANTITY UNIT COST COST

Off-Site Eight Mile Road Street Improvements from Ham Road to Leach Road

A. HAM ROAD TO LEACH ROAD

,				
1.	Street Improvements Clearing, Grubbing, and Disposal	0	\$15,000.00 LS	\$0.00
2.	Sawcut Existing Pavement	1,647	\$2.00 LF	\$3,294.00
3.	Remove Existing Pavement	3,295	\$3.00 SF	\$9,885.00
4.	Remove Irrigation Culvert	3	\$16.67 EA	\$50.00
5.	Rough Grading - Street Right-of-Way	1,949	\$4.50 CY	\$8,770.50
6.	Street Fine Grading	34,129	\$0.40 SF	\$13,651.60
7.	SWPPP Maintenance	0	\$7,500.00 LS	\$0.00
8.	Traffic Control	40	\$2,200.00 DAY	\$88,000.00
9.	6" Vertical Curb and Gutter	0	\$19.50 LF	\$0.00
10.	8" Median Curb	0	\$18.60 LF	\$0.00
11.	5" PCC Concrete Walk (Includes Ramps and Returns)	0	\$5.00 SF	\$0.00
12.	ADA Ramp (Labor and Truncated Domes Only)	0	\$1,900.00 EA	\$0.00
13.	4.0" AC over 14.5" AB Pavement	34,129	\$5.10 SF	\$174,057.90
14.	3" AC Grind and Overlay	0	\$2.00 SF	\$0.00
15.	Street Monuments	2	\$310.00 EA	\$620.00
16.	Landscape w/ Irrigation (Streetscape)	0	\$5.00 SF	\$0.00
17.	200 Watt Electrolier	0	\$6,166.67 EA	\$0.00
18.	Traffic Delineation (Striping and Stop bars)	0	\$1.75 EA	\$0.00
19.	Traffic Arrows	0	\$450.00 EA	\$0.00
20.	Joint Trench Main	0	\$150.00 LF	\$0.00
21.	Relocation of Overhead Utilities Poles	7	\$25,000.00 EA	\$175,000.00
22.	Right of Way Dedication at AT&T and Bragg Frontage	15,494	\$8.00 SF	\$123,952.00

CONSTRUCTION SUB-TOTAL ===> \$597,281.00

CONTINGENCY - 10% ===> <u>\$59,728.10</u> CONSTRUCTION TOTAL ===> \$657,009.10

SOFT COSTS - 35% ===> <u>\$229,953.19</u> CONSTRUCTION GRAND TOTAL ===> \$886,962.29

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ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
	Traffic Signal Improvements Only at the Intersec	tion of 8-Mile	Road and Road "C"	
A.	TRAFFIC SIGNAL AT ROAD "C":			
1.	Traffic Signal and Controls	0	\$350,000.00 EA	\$0.00
	С	ONSTRUCTIO	N SUB-TOTAL ===>	\$0.00
		CONTI	NGENCY - 10% ===>	\$0.00
			ICTION TOTAL ===>	\$0.00
		SOFT	COSTS - 35% ===>	\$0.00
	CON	STRUCTION (GRAND TOTAL ===>	\$0.00

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ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
	Traffic Signal Improvements Only at the Intersect	tion of 8-Mile F	Road and Leach Road	
A.	TRAFFIC SIGNAL AT LEACH ROAD:			
1.	Traffic Signal and Controls	0	\$350,000.00 EA	\$0.00
		CONSTRUCTIO	N SUB-TOTAL ===>	\$0.00
		CONTI	NGENCY - 10% ===>	\$0.00
			ICTION TOTAL ===>	\$0.00
		SOFT	COSTS - 35% ===>	\$0.00
	CON	NSTRUCTION	GRAND TOTAL ===>	\$0.00

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ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
	RTD Bus Stop along Eight-Mile Road adjace	ent to Comme	rcial Land Use	
A.	RTD BUS STOP:			
1.	RTD Bus Stop	0	\$17,500.00 EA	\$0.00
	Co	ONSTRUCTIO	N SUB-TOTAL ===>	\$0.00
		CONTIN	IGENCY - 10% ===>	\$0.00
			CTION TOTAL ===>	\$0.00
			COSTS - 35% ===>	\$0.00
	CONS	STRUCTION (GRAND TOTAL ===>	\$0.00

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Tra Vigne (West & East)

Engineer's Estimate of Probable Cost

	Off-Site 8 Mile Rd Developer Responsible Street Improvements				
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ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST	
	Off-Site Eight Mile Road Street Improvements	s from West L	ane to Ham Road		
Α.	WEST LANE TO HAM ROAD				
1.	Street Improvements Clearing, Grubbing, and Disposal	2	\$15,000.00 LS	\$30,000.00	
2.	Sawcut Existing Pavement	0	\$2.00 LF	\$0.00	
3.	Remove and Dispose of Existing Pavement	0	\$3.00 SF	\$0.00	
4.	Remove Irrigation Culvert	0	\$16.67 EA	\$0.00	
5.	Rough Grading - Street Right-of-Way	2,342	\$4.50 CY	\$10,539.00	
6.	Street Fine Grading	67,581	\$0.40 SF	\$27,032.40	
7.	Erosion Control Improvements	2	\$2,000.00 AC	\$4,000.00	
8.	Mobilization - Major Infrastructure	1	\$30,000.00 LS	\$30,000.00	
9.	Traffic Control	40	\$2,200.00 DAY	\$88,000.00	
10.	4.0" AC over 14.5" AB Pavement	67,581	\$5.10 SF	\$344,663.10	
11.	3" AC Grind and Overlay	77,842	\$2.00 SF	\$155,684.00	
12.	6" Vertical Curb and Gutter	2,494	\$19.50 LF	\$48,633.00	
13.	5" PCC Concrete Walk (Includes Ramps and Returns)	19,518	\$5.00 SF	\$97,590.00	
14.	ADA Ramp (Labor and Truncated Domes Only)	11	\$1,900.00 EA	\$20,900.00	
15.	200 Watt Electrolier	9	\$6,166.67 EA	\$55,500.00	
16.	Street Monuments	0	\$310.00 EA	\$0.00	
17.	Traffic Delineation (Striping and Stop bars)	13,221	\$1.75 EA	\$23,136.75	
18.	Traffic Arrows	24	\$450.00 EA	\$10,800.00	
19.	Street Name and Directional Signs	4	\$380.00 EA	\$1,520.00	
20.	Landscape w/ Irrigation (Streetscape)	15,710	\$5.00 SF	\$78,550.00	
21.	Entry Monument (Minor)	1	\$50,000.00 EA	\$50,000.00	
22.	Street Barricade	5	\$750.00 EA	\$3,750.00	
23.	Joint Trench Main	2,510	\$150.00 LF	\$376,500.00	
24.	Relocation of Overhead Utilities Poles	1	\$25,000.00 EA	\$25,000.00	
	1		/	+ -,	

CONSTRUCTION SUB-TOTAL ===> \$1,481,798.25

CONTINGENCY - 10% ===> \$148,179.83 CONSTRUCTION TOTAL ===> \$1,629,978.08

SOFT COSTS - 35% ===> \$570,492.33 CONSTRUCTION GRAND TOTAL ===> \$2,200,470.40

Printed: 2/28/2019 Page 32 of 88 ITEM DESCRIPTION QUANTITY UNIT COST COST

Off-Site Eight Mile Road Street Improvements from Ham Road to Leach Road

A. HAM ROAD TO LEACH ROAD

,				
1.	Street Improvements Clearing, Grubbing, and Disposal	1	\$15,000.00 LS	\$15,000.00
2.	Sawcut Existing Pavement	0	\$2.00 LF	\$0.00
3.	Remove Existing Pavement	0	\$3.00 SF	\$0.00
4.	Remove Irrigation Culvert	0	\$16.67 EA	\$0.00
5.	Rough Grading - Street Right-of-Way	3,142	\$4.50 CY	\$14,139.00
6.	Street Fine Grading	41,241	\$0.40 SF	\$16,496.40
7.	SWPPP Maintenance	1	\$7,500.00 LS	\$7,500.00
8.	Traffic Control	40	\$2,200.00 DAY	\$88,000.00
9.	6" Vertical Curb and Gutter	1,511	\$19.50 LF	\$29,464.50
10.	8" Median Curb	0	\$18.60 LF	\$0.00
11.	5" PCC Concrete Walk (Includes Ramps and Returns)	8,081	\$5.00 SF	\$40,405.00
12.	ADA Ramp (Labor and Truncated Domes Only)	2	\$1,900.00 EA	\$3,800.00
13.	4.0" AC over 14.5" AB Pavement	41,241	\$5.10 SF	\$210,329.10
14.	3" AC Grind and Overlay	66,968	\$2.00 SF	\$133,936.00
15.	Street Monuments	0	\$310.00 EA	\$0.00
16.	Landscape w/ Irrigation (Streetscape)	5,182	\$5.00 SF	\$25,910.00
17.	200 Watt Electrolier	5	\$6,166.67 EA	\$30,833.33
18.	Traffic Delineation (Striping and Stop bars)	7,725	\$1.75 EA	\$13,518.75
19.	Traffic Arrows	10	\$450.00 EA	\$4,500.00
20.	Joint Trench Main	1,440	\$150.00 LF	\$216,000.00
21.	Relocation of Overhead Utilities Poles	0	\$25,000.00 EA	\$0.00
22.	Right of Way Dedication at AT&T and Bragg Frontage	0	\$8.00 SF	\$0.00

CONSTRUCTION SUB-TOTAL ===> \$849,832.08

CONTINGENCY - 10% ===> \$84,983.21 CONSTRUCTION TOTAL ===> \$934,815.29

SOFT COSTS - 35% ===> <u>\$327,185.35</u> CONSTRUCTION GRAND TOTAL ===> \$1,262,000.64

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ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
	Traffic Signal Improvements Only at the Inte	rsection of 8-Mile	Road and Road "C"	
A.	TRAFFIC SIGNAL AT ROAD "C":			
1.	Traffic Signal and Controls	1	\$350,000.00 EA	\$350,000.00
		CONSTRUCTION	ON SUB-TOTAL ===>	\$350,000.00
		CONT	INGENCY - 10% ===>_	\$35,000.00
			UCTION TOTAL ===>	\$385,000.00
		SOF	T COSTS - 35% ===> _	\$134,750.00
		CONSTRUCTION	GRAND TOTAL ===>	\$519,750.00

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ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
	Traffic Signal Improvements Only at the Intersect	on of 8-Mile	Road and Leach Road	
A.	TRAFFIC SIGNAL AT LEACH ROAD:			
1.	Traffic Signal and Controls	1	\$350,000.00 EA	\$350,000.00
	С	ONSTRUCTION	ON SUB-TOTAL ===>	\$350,000.00
		CONTI	NGENCY - 10% ===>_	\$35,000.00
			UCTION TOTAL ===>	\$385,000.00
		SOF	T COSTS - 35% ===> _	\$134,750.00
	CON	STRUCTION	GRAND TOTAL ===>	\$519,750.00

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ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
	RTD Bus Stop along Eight-Mile Road adjace	ent to Comme	rcial Land Use	
A.	RTD BUS STOP:			
1.	RTD Bus Stop	1	\$17,500.00 EA	\$17,500.00
	С	ONSTRUCTIO	ON SUB-TOTAL ===>	\$17,500.00
		CONTI	NGENCY - 10% ===>	\$1,750.00
		CONSTRU	ICTION TOTAL ===>	\$19,250.00
		SOFT	「COSTS - 35% ===>	\$6,737.50
	CON	ISTRUCTION (GRAND TOTAL ===>	\$25.987.50

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Tra Vigne (West & East)

Engineer's Estimate of Probable Cost

West Lane - 8 Mile Total Int	tersection Improvements
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ITEM **DESCRIPTION UNIT COST** COST QUANTITY

West Lane and Eight Mile Road Intersection Street Improvements and Traffic Signal:

WEST LANE AND EIGH MILE ROAD IMPROVEMENTS

1.	3" AC Grind and Overlay	26,844	\$2.00 SF	\$53,688.00
2.	Striping - Intersection	1	\$10,000.00 LS	\$10,000.00
3.	Traffic Signal and Controls	1	\$350,000.00 EA	\$350,000.00

CONSTRUCTION SUB-TOTAL ===> \$413,688.00

CONTINGENCY - 10% ===> ___ **CONSTRUCTION TOTAL ===>** \$455,056.80

SOFT COSTS - 35% ===> _ \$159,269.88

\$614,326.68 **CONSTRUCTION GRAND TOTAL ===>**

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Tra Vigne (West & East)

	Engineer's Estimate of Probable Cost						
	West Lane - 8-Mile PFF Street Improvemen	ts Available	for Fee Credits				
ITEM	TEM DESCRIPTION QUANTITY UNIT COST COST						
	West Lane and Eight Mile Road Intersection Street Improvements and Traffic Signal:						
A.	A. WEST LANE AND EIGH MILE ROAD IMPROVEMENTS						
1.	3" AC Grind and Overlay	26,844	\$2.00 SF	\$53,688.00			
2.	Striping - Intersection	1	\$10,000.00 LS	\$10,000.00			
3.	Traffic Signal and Controls	1	\$350,000.00 EA	\$350,000.00			

CONSTRUCTION SUB-TOTAL ===> \$413,688.00

CONTINGENCY - 10% ===> <u>\$41,368.80</u> CONSTRUCTION TOTAL ===> \$455,056.80

SOFT COSTS - 35% ===> \$159,269.88 CONSTRUCTION GRAND TOTAL ===> \$614,326.68

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Tra Vigne (West & East)Engineer's Estimate of Probable Cost

	<u> </u>	ate of Probable Cost			
	West Lane - 8-Mile Developer Responsible Intersection Improvements				
ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST	
	West Lane and Eight Mile Road Intersec	tion Street Improveme	nts and Traffic Signal:		
A.	WEST LANE AND EIGH MILE ROAD IMPROVEME	INTS			
1.	3" AC Grind and Overlay	0	\$2.00 SF	\$0.00	
2.	Striping - Intersection	0	\$10,000.00 LS	\$0.00	
3.	Traffic Signal and Controls	0	\$350,000.00 EA	\$0.00	
		CONSTRUCTION	ON SUB-TOTAL ===>	\$0.00	
		CONT	INGENCY - 10% ===> _	\$0.00	
		CONSTR	UCTION TOTAL ===>	\$0.00	
		SOF	T COSTS - 35% ===> _	\$0.00	
		CONSTRUCTION	GRAND TOTAL ===>	\$0.00	

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Tra Vigne (West & East)

	Engineer's Estimate of Prol	bable Cost		
	Total Off-Site Major Utility Infrastruc	cture Improve	ements	
ITEM	I DESCRIPTION	QUANTITY	UNIT COST	COST
	Sanitary Sewer Infrasti	<u>ructure</u>		
24" S	ewer Main from the Existing Manhole North of McNair High	School east t	o West Lane	
1.	24" PVC - Sanitary Sewer	3,564	\$126.67 LF	\$451,440.00
2.	60" - Sanitary Sewer Manhole	8	\$6,000.00 EA	\$48,000.00
3.	Clearing, Grubbing, and Disposal	2	\$995.00 AC	\$1,990.00
4.	Connect to Existing Sewer Manhole	1	\$4,500.00 EA	\$4,500.00
5.	24" West Lane Crossing	1	\$25,000.00 LS	\$25,000.00
6.	Stub and Plug Proposed Sanitary Sewer Line	1	\$2,500.00 EA	\$2,500.00
7.	24" Sewer Extension Restoration	2	\$1,000.00 AC	\$2,000.00
			SUB-TOTAL ===>_	\$535,430.00
24" S	ewer Main along West Lane from Bear Creek to Road "A"			
1.	24" PVC - Sanitary Sewer (Trench and Repatch)	1,692	\$188.33 LF	\$318,660.00
2.	60" - Sanitary Sewer Manhole	3	\$6,000.00 EA	\$18,000.00
			SUB-TOTAL ===>	\$336,660.00
	SANITARY SEWER INFF	RASTRUCTU	===>	\$872,090.00
			_	· ,
		CONTI	NGENCY - 10% ===>_	\$87,209.00
			JCTION TOTAL ===>	\$959,299.00
		SOF	T COSTS - 35% ===> _	\$335,754.65
		1	GRAND TOTAL ===>	\$1,295,053.65

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ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
	Potable Water Sy	ystem Infrastructure		
12" W	ater Main in Eight Mile Road from Marlette Road to	o Lower Sacramento Ro	oad	
1.	Traffic Control	10	\$2,200.00 DAY	\$22,000.00
2.	12" PVC - Water (Trench and Repatch)	2,057	\$110.00 LF	\$226,270.00
3.	Hydrant Bury, Valve, and Tee	2	\$5,200.00 EA	\$10,400.00
4.	12" Water Connection	1	\$6,000.00 EA	\$6,000.00
			SUB-TOTAL ===>	\$264,670.00
24" W	ater Main in Eight Mile Road from Lower Sacrame	nto Road to West Lane		
1.	Traffic Control	15	\$2,200.00 DAY	\$33,000.00
2.	24" PVC - Water (Trench and Repatch)	4,140	\$170.00 LF	\$703,800.00
3.	Hydrant Bury, Valve, and Tee	6	\$5,200.00 EA	\$31,200.00
4.	Blow-off Valve	1	\$4,000.00 EA	\$4,000.00
			SUB-TOTAL ===>	\$772,000.00
24" W	ater Main in Eight Mile Road from West Lane to Ha	am Road		
1.	24" PVC - Water (Trench and Repatch)	2,588	\$170.00 LF	\$439,960.00
2.	Hydrant Bury, Valve, and Tee	5	\$5,200.00 EA	\$26,000.00
3.	Blow-off Valve	1	\$4,000.00 EA	\$4,000.00
4.	24" Water Connection	1	\$12,000.00 EA	\$12,000.00
			SUB-TOTAL ===>	\$481,960.00
			-	, . ,
	Vater Main in Eight Mile Road from Ham Road to Ea			4007.000.00
1.	24" PVC - Water (Trench and Repatch)	2,340	\$170.00 LF	\$397,800.00
2.	Hydrant Bury, Valve, and Tee	5	\$5,200.00 EA	\$26,000.00
3.	Blow-off Valve	1	\$4,000.00 EA	\$4,000.00
4.	24" Water Connection	1 1	\$12,000.00 EA	\$12,000.00
			SUB-TOTAL ===>	\$439,800.00
24" W	ater Main in West Lane from Eight Mile Road to Be	ear Creek Undercrossir	na	
1.	24" PVC - Water (Trench and Repatch)	4,655	\$170.00 LF	\$791,350.00
2.	Hydrant Bury, Valve, and Tee	15	\$5,200.00 EA	\$78,000.00
3.	Blow-off Valve	10	\$4,000.00 EA	\$40,000.00
4.	24" Water Connection	1	\$12,000.00 EA	\$12,000.00
			SUB-TOTAL ===>	\$921,350.00
	POTABLE WATER SYS	TEM INFRASTRUCTUR	RE SUB-TOTAL ===>	\$2,879,780.00
		CONTIN	NGENCY - 10% ===>	\$287,978.00
			ICTION TOTAL ===>	\$3,167,758.00

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\$144,278.75

\$556,503.75

SOFT COSTS - 35% ===> _

GRAND TOTAL ===>

ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST			
	West lane / Bear Creek 24" Water Crossing Infrastructure						
24" W	ater Main Undercrossing along West Lane under Bear Cre	ek					
1.	Traffic Control	25	\$2,200.00 DAY	\$55,000.00			
2.	Boring Pit Construction (incl. Shoring) - North Side	1	\$45,000.00 LS	\$45,000.00			
3.	Boring Pit Construction (incl.Shoring) - South Side	1	\$35,000.00 LS	\$35,000.00			
4.	27" HDPE Horizontal Drill	250	\$500.00 LF	\$125,000.00			
5.	24" PVC - Water (Fittings for Connections)	300	\$150.00 LF	\$45,000.00			
6.	Dewatering	1	\$20,000.00 LS	\$20,000.00			
7.	Connection to Existing 24" Main in West Lane	1	\$25,000.00 LS	\$25,000.00			
8.	Street Restoration	550	\$45.00 LF	\$24,750.00			
			SUB-TOTAL ===>	\$374,750.00			
	WATER LINE - WEST LANE/BEAR CREEK WA	TER CROSSIN	IG SUB-TOTAL ===>	\$374,750.00			
CONTINGENCY - 10% ===> = CONSTRUCTION TOTAL ===>			\$37,475.00 \$412,225.00				

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Tra Vigne (West & East)

Engineer's	Estimate	of Probabl	e Cost
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	Engineer's Estimate of Probable Cost Reimbursable Off-Site Major Utility Infrastructure Improvements				
ITEM	DESCRIPTION		UNIT COST	COST	
IIEW	DESCRIPTION	QUANTITY	UNIT COST	COST	
	Sanitary Sewer Infras	tructure			
	Cost difference between oversized proposed 24" PVC Sewer Main versus required 12" PVC Sewer Main				
The second secon					
24"- S	24"- Sewer Maing from the Existing Manhole North of McNair High School east to West Lane				
1.	24" PVC - 12" PVC - Sanitary Sewer	3,564	\$84.67 LF	\$301,752.00	
2.	60" - 48" Sanitary Sewer Manhole	8	\$3,200.00 EA	\$25,600.00	
3.	Clearing, Grubbing, and Disposal	0	\$995.00 AC	\$0.00	
4.	Connect to Existing Sewer Manhole	1	\$4,500.00 EA	\$4,500.00	
5.	24" - 12" West Lane Crossing	1	\$12,500.00 LS	\$12,500.00	
6.	Stub and Plug Proposed Sanitary Sewer Line	0	\$2,500.00 EA	\$0.00	
7.	24" Sewer Extension Restoration	0	\$1,000.00 AC	\$0.00	
			SUB-TOTAL ===>	\$344,352.00	
			-		
24" S	ewer Main from along West Lane from Bear Creek to Road	"A"			
1.	24" PVC - 12" PVC Sanitary Sewer (Trench and Repatch)	1,692	\$84.67 LF	\$143,267.28	
2.	60" - 48" Sanitary Sewer Manhole	3	\$3,200.00 EA	\$9,600.00	
			,		
			SUB-TOTAL ===>	\$152,867.28	
			=		
	SANITARY SEWER INF	RASTRUCTU	RE SUB-TOTAL ===>	\$497,219.28	
			-		
		CONTI	NGENCY - 10% ===> _	\$49,721.93	
CONSTRUCTION TOTAL ===>			\$546,941.21		
				•	
		SOF	T COSTS - 35% ===>_	\$191,429.42	
			GRAND TOTAL ===>	\$738,370.63	
				•	

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ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
	Potable Water Systen	n Infrastructure		
(Cost difference between oversized proposed 24" / 30" V		s required 12" PVC Wa	ater Mains
12" W	/ater Main in Eight Mile Road from Marlette Road to Lov	wer Sacramento R	oad	
1.	Traffic Control	0	\$2,200.00 DAY	\$0.00
2.	12" PVC - Water (Trench and Repatch)	0	\$110.00 LF	\$0.00
3.	Hydrant Bury, Valve, and Tee	0	\$5,200.00 EA	\$0.00
4.	12" Water Connection	0	\$6,000.00 EA	\$0.00
			·	
			SUB-TOTAL ===>	\$0.00
24" W	/ater Main in Eight Mile Road from Lower Sacramento F	Road to West Lane		
1.	Traffic Control	0	\$2,200.00 DAY	\$0.00
2.	24" PVC - 12" PVC Water (Trench and Repatch)	4,140	\$60.00 LF	\$248,400.00
3.	Hydrant Bury, Valve, and Tee	0	\$5,200.00 EA	\$0.00
4.	Blow-off Valve	0	\$4,000.00 EA	\$0.00
			SUB-TOTAL ===>	\$248,400.00
			30D-101AL ===>_	Ψ240,400.00
	Vater Main in Eight Mile Road from West Lane to Ham R		***	* 455.000.00
1.	24" PVC - 12" PVC Water (Trench and Repatch)	2,588	\$60.00 LF	\$155,280.00
2.	Hydrant Bury, Valve, and Tee	0	\$5,200.00 EA	\$0.00
3.	Blow-off Valve	0	\$4,000.00 EA	\$0.00
4.	24" - 12" Water Connection	1	\$6,000.00 EA	\$6,000.00
			SUB-TOTAL ===>	\$161,280.00
24" W	/ater Main in Eight Mile Road from Ham Road to East E⊩	nd of Tra Vigne Ea	ıst	
1.	24" PVC - 12" PVC Water (Trench and Repatch)	2,340	\$60.00 LF	\$140,400.00
2.	Hydrant Bury, Valve, and Tee	0	\$5,200.00 EA	\$0.00
3.	Blow-off Valve	0	\$4,000.00 EA	\$0.00
4.	24" - 12" Water Connection	1	\$6,000.00 EA	\$6,000.00
			SUB-TOTAL ===>	\$146,400.00
0.411.14				<u> </u>
	Vater Main in West Lane from Eight Mile Road to Bear C			#070 000 00
1.	24" PVC - 12" PVC Water (Trench and Repatch)	4,655	\$60.00 LF	\$279,300.00
<u>2.</u> 3.	Hydrant Bury, Valve, and Tee Blow-off Valve	0	\$5,200.00 EA \$4,000.00 EA	\$0.00 \$0.00
4.	24" - 12" Water Connection	1	\$6,000.00 EA	\$6,000.00
4.	24 - 12 Water Connection	ı	φο,000.00 ΕΑ	φο,υυυ.υυ
			SUB-TOTAL ===>	\$285,300.00
	POTABLE WATER SYSTEM	INFRASTRUCTUE	RE SUB-TOTAL ===>	\$841,380.00
		CONTU	NGENCY - 10% ===>_	\$84,138.00
			JCTION TOTAL ===>	\$925,518.00
				,
			COSTS - 35% ===> =	
		(GRAND TOTAL ===>	\$1,249,449.30

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ITEM DESCRIPTION QUANTITY UNIT COST COST

West lane / Bear Creek 24" Water Crossing Infrastructure Cost difference between oversized proposed 24" / 30" Water Mains versus required 12" PVC Water Mains

24" Water Main Undercrossing along West Lane under Bear Creek

1.	Traffic Control	0	\$2,200.00 DAY	\$0.00
2.	Boring Pit Construction (incl. Shoring) - North Side	0	\$45,000.00 LS	\$0.00
3.	Boring Pit Construction (incl.Shoring) - South Side	0	\$35,000.00 LS	\$0.00
4.	27" HDPE - 18" HDPE Horizontal Drill	250	\$150.00 LF	\$37,500.00
5.	24" PVC - 12" PVC - Water (Fittings for Connections)	500	\$75.00 LF	\$37,500.00
6.	Dewatering	0	\$20,000.00 LS	\$0.00
7.	Connection to Existing 24" Main in West Lane	1	\$25,000.00 LS	\$25,000.00
8.	Street Restoration	0	\$45.00 LF	\$0.00

SUB-TOTAL ===> \$100,000.00

WATER LINE - WEST LANE/BEAR CREEK WATER CROSSING SUB-TOTAL ===> \$100,000.00

CONTINGENCY - 10% ===> \$10,000.00 CONSTRUCTION TOTAL ===> \$110,000.00

> SOFT COSTS - 35% ===> \$38,500.00 GRAND TOTAL ===> \$148,500.00

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Tra Vigne (West & East)
Engineer's Estimate of Probable Cost
Off-Site Mitigation Improvements

	DECODIDE		LINIT COST	222
ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
	Part I - Morada Lane - De	dicated Right-Turn L	ane_	
A.	SITE PREPARATION AND GRADING			
1.	Clearing, Grubbing, and Disposal	1	\$995.00 AC	\$995.00
2.	Remove Existing Pavement	583	\$3.00 SF	\$1,749.00
3.	Sawcut Existing Pavement	583	\$2.00 LF	\$1,166.00
4.	Traffic Control	10	\$2,200.00 DAY	\$22,000.00
5.	Rough Grading - Street Right-of-Way	271	\$4.50 CY	\$1,220.00
6.	Street Fine Grading	7,320	\$0.40 SF	\$2,928.00
			SUB-TOTAL ===>	\$30,058.00
В.	EROSION CONTROL			
1.	Temporary Straw Wattle	600.0	\$1.63 LF	\$975.00
			SUB-TOTAL ===>	\$975.00
			00B 101AE>_	ψ570.00
C.	STREETS			
1.	4.0" AC over 14.5" AB Pavement	7,320	\$5.10 SF	\$37,332.00
			SUB-TOTAL ===>	\$37,332.00
			00B 101AE>_	ψον,σοΣ.σο
D.	STRIPING AND SIGNAGE			
1.	Remove Striping	400	\$1.00 LS	\$400.00
2.	Remove Arrows	1	\$200.00 LS	\$200.00
3.	Traffic Arrows	5	\$450.00 EA	\$2,250.00
4.	Traffic Delineation	820	\$1.75 LF	\$1,435.00
5.	Modified Traffic Signal and Controls	1	\$150,000.00 EA	\$150,000.00
			SUB-TOTAL ===>	\$154,285.00

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PART 1 - SUB-TOTAL ===>

\$222,650.00

ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
	Part II - Lower Sacramento Road Ir	ntersection Mod	ifications	
Α.	SITE PREPARATION AND GRADING			
1.	Clearing, Grubbing, and Disposal	1	\$995.00 AC	\$995.00
2.	Remove Existing Pavement	243	\$3.00 SF	\$729.00
3.	Sawcut Existing Pavement	243	\$2.00 LF	\$486.00
4.	Traffic Control	10	\$2,200.00 DAY	\$22,000.00
5.	Rough Grading - Street Right-of-Way	104	\$4.50 CY	\$468.75
6.	Street Fine Grading	2,500	\$0.40 SF	\$1,000.00
	<u> </u>	, , ,	SUB-TOTAL ===>	\$25,678.75
В.	EROSION CONTROL			
1.	Temporary Straw Wattle	250.0	\$1.63 LF	\$406.25
			SUB-TOTAL ===>	\$406.25
C.	STREETS			
1.	4.0" AC over 14.5" AB Pavement	2,500	\$5.10 SF	\$12,750.00
			SUB-TOTAL ===>	\$12,750.00
D.	STRIPING AND SIGNAGE			
1.	Remove Striping	150	\$1.00 LS	\$150.00
2.	Traffic Arrows	2	\$450.00 EA	\$900.00
3.	Traffic Delineation	225	\$1.75 LF	\$393.75
4.	Modified Traffic Signal and Controls	1	\$150,000.00 EA	\$150,000.00
			SUB-TOTAL ===>	\$151,443.75
		PART 2	- SUB-TOTAL ===>	\$190,278.75
		CONSTRUCTIO	N SUB-TOTAL ===>	\$412,928.75
CONTINGENCY - 10% ===> _			\$41,292.88	
	CONSTRUCTION TOTAL ===>			\$454,221.63
	SOFT COSTS - 35% ===>_		\$158,977.57	
		C	GRAND TOTAL ===>	\$613,199.19
			TOTAL LOTS ===>	1,212
		C	OST PER LOT ===>	\$505.94

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Tra Vigne (West & East)

	Engineer's Estimate of Probable Cost				
	Tra Vigne West In-Tract Majo	r Infrastructu	re		
ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST	
	Shared Storm Drain Pipes, Basin, and P	umn Station	nfraetructure		
	onared Storm Drain Fipes, Dasin, and F	unip Station	illiastructure		
Storn	n Drainage Base Pump Station, Infrastructure, and Treatme	ent			
1. Basin Pump Station, Treatment Equipment, & Basin Piping 1 \$1,000,000.00 LS					
			SUB-TOTAL ===>	\$1,000,000.00	
_					
	n Drainage Basin Construction		****		
1.	Clearing, Grubbing, and Disposal	5.1	\$995.00 AC	\$5,074.50	
2.	Rough Grading - Basin	57,700	\$3.00 CY	\$173,100.00	
3.	Park / Basin Fine Grading	222,200	\$0.15 SF	\$33,330.00	
			SUB-TOTAL ===>	6011 504 50	
			SUB-101AL ===>	\$211,504.50	
Storn	n Drainage Basin Fencing, Landscaping and Erosion Contr	ol			
1.	Basin Decorative Fencing and Security (signs) Features	1,270	\$30.00 LF	\$38,100.00	
2.	Erosion Control Improvements	5.1	\$2,000.00 AC	\$10,200.00	
3.	Landscape w/o Irrigation (Basin Hydroseeding)	222,200	\$0.45 SF	\$99,990.00	
	zanassaps me migation (zasii ri) ansossamig)		φοιτο στ	φοσ,σσσ.σσ	
			SUB-TOTAL ===>	\$148,290.00	
				ψ1.10, <u>_</u> 00.00	
		CONSTRUCTI	ON SUB-TOTAL ===>	\$1,359,794.50	
			INGENCY - 10% ===>		
			UCTION TOTAL ===>		
		-		. , , ,	
		SOF	T COSTS - 35% ===>	\$523,520.88	
			GRAND TOTAL ===>	\$2,019,294.83	

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TOTAL LOTS ===> <u>794</u> COST PER LOT ===> \$1,010.10

ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
	Tra Vigne West Oversized Backbone Wa	iter System Im	<u>iprovements</u>	
Oversi	zed Water System for Road "A" - Segments (A1), (A2), and	I (A 3)		
	16" PVC - Water	2,469	\$80.00 LF	\$197,520.00
	16" Butterfly Valve	5	\$4,000.00 EA	\$20,000.00
	To Buttorny Parto		Ψ1,000.00 Σ/1	Ψ20,000.00
			SUB-TOTAL ===>	\$217,520.00
			_	
	zed Water System for Road "B" - Segment (B)		400.001.5	
	18" PVC - Water	914	\$90.00 LF	\$82,260.00
2.	18" Butterfly Valve	1	\$4,500.00 EA	\$4,500.00
			SUB-TOTAL ===>	\$86,760.00
			30D-101AL>_	φου,7ου.ου
Oversi	zed Water System for Road "C" - Segments (C1), (C2), (C3), (C4), and (C	5)	
	18" PVC - Water	520	\$90.00 LF	\$46,800.00
2.	18" Butterfly Valve	2	\$4,500.00 EA	\$9,000.00
3.	16" PVC - Water	1,250	\$80.00 LF	\$100,000.00
4.	16" Butterfly Valve	6	\$4,000.00 EA	\$24,000.00
			SUB-TOTAL ===>	\$179,800.00
0		(DD4) (E	(DO) (DDO) (AA) amal	(FF)
	zed Water System for Roads "AA", "BB" AND "FF" - Segm 16" PVC - Water	500	\$80.00 LF	\$40,000.00
	16" Butterfly Valve	4	\$4,000.00 EA	\$16,000.00
۷.	To Bulletily valve	4	φ4,000.00 LA	φ10,000.00
			SUB-TOTAL ===>	\$56,000.00
				400,000.00
	(CONSTRUCTIO	N SUB-TOTAL ===>	\$540,080.00
		CONTI	NGENCY - 10% ===> _	\$54,008.00
		CONSTRU	JCTION TOTAL ===>	\$594,088.00
			Γ COSTS - 35% ===> _	
		(GRAND TOTAL ===>	\$802,018.80

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ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
	Tra Vigne West In-Tract Parks, Landscaping, C	pen Space, and Recr	eational Improveme	<u>ents</u>

In-Tract Park Landscaping Improvements (Does Not Include Major Amenities)

1.	Landscape w/ Irrigation (Tra Vigne West - Park A Area)	159,637	\$6.50 SF	\$1,037,640.50
2.	Landscape w/ Irrigation (Tra Vigne West - Park B Area)	251,281	\$6.50 SF	\$1,633,326.50
3.	Landscape w/ Irrigation (Open Space)	610,620	\$0.50 SF	\$305,310.00

SUB-TOTAL ===> \$2,976,277.00

CONSTRUCTION SUB-TOTAL ===> \$2,976,277.00 CONTINGENCY - 10% ===> \$297,627.70 CONSTRUCTION TOTAL ===> \$3,273,904.70

SOFT COSTS - 35% ===> \$\frac{\$1,145,866.65}{\$4,419,771.35}\$

TOTAL LOTS ===> <u>794</u> COST PER LOT ===> \$5,566.46

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Tra Vigne (West & East)
Engineer's Estimate of Probable Cost

Tra Vigne West In-Tract Major Infrastructure Available for PFF Fee Credits and Reimbursements				
ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
	Shared Storm Drain Pipes, Basin, and P	ump Station	<u>Infrastructure</u>	
Storm	n Drainage Base Pump Station, Infrastructure, and Treatme	ent		
1.	Basin Pump Station, Treatment Equipment, & Basin Piping	0	\$1,000,000.00 LS	\$0.00
			SUB-TOTAL ===>	\$0.00
Storm	n Drainage Basin Construction			
1.	Clearing, Grubbing, and Disposal	0	\$995.00 AC	\$0.00
2.	Rough Grading - Basin	0	\$3.00 CY	\$0.00
3.	Park / Basin Fine Grading	0	\$0.15 SF	\$0.00
			SUB-TOTAL ===>	\$0.00
Storm	n Drainage Basin Fencing, Landscaping and Erosion Contr	ol		
1.	Basin Decorative Fencing and Security (signs) Features	0	\$30.00 LF	\$0.00
2.	Erosion Control Improvements	0	\$2,000.00 AC	\$0.00
3.	Landscape w/o Irrigation (Basin Hydroseeding)	0	\$0.45 SF	\$0.00
			SUB-TOTAL ===>	\$0.00
		CONSTRUCT	ION SUB-TOTAL ===>	\$0.00
			TINGENCY - 10% ===>	\$0.00
			RUCTION TOTAL ===>	\$0.00
SOFT COSTS - 35% ===>			\$0.00	
			GRAND TOTAL ===>	\$0.00
			TOTAL LOTS ===>	794
			COST PER LOT ===>	\$0.00

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TOTAL LOTS ===> <u>794</u> COST PER LOT ===> \$274.74

ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
	Tra Vigne West Oversized Bac	kbone Water System Imj	orovements .	
Oversized Wate	er System for Road "A" - Segments (A1)	(A2), and (A3)		
	- 12" PVC - Water	2,469	\$20.00 LF	\$49,380.00
2. 16" Butte	rfly Valve - 12" Butterfly Valve	5	\$1,000.00 EA	\$5,000.00
			SUB-TOTAL ===>	\$54,380.00
	er System for Road "B" - Segment (B)			
	- 12" PVC - Water	914	\$30.00 LF	\$27,420.00
2. 18" Butte	erfly Valve - 12" Butterfly Valve	1	\$1,500.00 EA	\$1,500.00
			SUB-TOTAL ===>	\$28,920.00
0 10" Dutto				
	erfly Valve - 12" Butterfly Valve	1 250	\$1,500.00 EA	\$3,000.00
3. 16" PVC	- 12" PVC - Water erfly Valve - 12" Butterfly Valve	1,250 6	\$20.00 LF \$1,000.00 EA	\$25,000.00
3. 16" PVC	- 12" PVC - Water	1,250	\$20.00 LF	\$25,000.00 \$6,000.00 \$49,600.00
3. 16" PVC 4. 16" Butte	- 12" PVC - Water erfly Valve - 12" Butterfly Valve er System for Roads "AA", "BB" AND "F	1,250	\$20.00 LF \$1,000.00 EA SUB-TOTAL ===> B2), (BB3), (AA), and (\$25,000.00 \$6,000.00 \$49,600.0 0
3. 16" PVC 4. 16" Butte Dversized Wate 1. 16" PVC	- 12" PVC - Water erfly Valve - 12" Butterfly Valve er System for Roads "AA", "BB" AND "F - 12" PVC - Water	1,250 6 F" - Segments (BB1), (BI	\$20.00 LF \$1,000.00 EA SUB-TOTAL ===> _ B2), (BB3), (AA), and (\$20.00 LF	\$25,000.00 \$6,000.00 \$49,600.00 FF) \$10,000.00
3. 16" PVC 4. 16" Butte Dversized Wate 1. 16" PVC	- 12" PVC - Water erfly Valve - 12" Butterfly Valve er System for Roads "AA", "BB" AND "F	1,250 6 F" - Segments (BB1), (BI	\$20.00 LF \$1,000.00 EA SUB-TOTAL ===> B2), (BB3), (AA), and (\$25,000.00 \$6,000.00 \$49,600.0 FF) \$10,000.00
3. 16" PVC 4. 16" Butte Oversized Wate 1. 16" PVC	- 12" PVC - Water erfly Valve - 12" Butterfly Valve er System for Roads "AA", "BB" AND "F - 12" PVC - Water	1,250 6 F" - Segments (BB1), (BI	\$20.00 LF \$1,000.00 EA SUB-TOTAL ===> _ B2), (BB3), (AA), and (\$20.00 LF	\$25,000.00 \$6,000.00 \$49,600.00 FF) \$10,000.00 \$4,000.00
3. 16" PVC 4. 16" Butte Oversized Wate 1. 16" PVC	- 12" PVC - Water erfly Valve - 12" Butterfly Valve er System for Roads "AA", "BB" AND "F - 12" PVC - Water	1,250 6 F" - Segments (BB1), (BI 500 4	\$20.00 LF \$1,000.00 EA SUB-TOTAL ===> B2), (BB3), (AA), and (\$20.00 LF \$1,000.00 EA SUB-TOTAL ===>	\$25,000.00 \$6,000.00 \$49,600.00 FF) \$10,000.00 \$4,000.00
3. 16" PVC 4. 16" Butte Oversized Wate 1. 16" PVC	- 12" PVC - Water erfly Valve - 12" Butterfly Valve er System for Roads "AA", "BB" AND "F - 12" PVC - Water	1,250 6 F" - Segments (BB1), (BI 500 4	\$20.00 LF \$1,000.00 EA SUB-TOTAL ===> B2), (BB3), (AA), and (\$20.00 LF \$1,000.00 EA SUB-TOTAL ===>	\$25,000.00 \$6,000.00 \$49,600.00 FF) \$10,000.00 \$4,000.00 \$14,000.00
3. 16" PVC 4. 16" Butte Oversized Wate 1. 16" PVC	- 12" PVC - Water erfly Valve - 12" Butterfly Valve er System for Roads "AA", "BB" AND "F - 12" PVC - Water	1,250 6 F" - Segments (BB1), (BI 500 4 CONSTRUCTION	\$20.00 LF \$1,000.00 EA SUB-TOTAL ===> B2), (BB3), (AA), and (\$20.00 LF \$1,000.00 EA SUB-TOTAL ===>	\$25,000.00 \$6,000.00 \$49,600.00 FF) \$10,000.00 \$4,000.00 \$14,000.00 \$146,900.00 \$14,690.00
3. 16" PVC 4. 16" Butte Oversized Wate 1. 16" PVC	- 12" PVC - Water erfly Valve - 12" Butterfly Valve er System for Roads "AA", "BB" AND "F - 12" PVC - Water	T,250 6 F" - Segments (BB1), (BI 500 4 CONSTRUCTION CONSTRUCTION CONSTRUCTION CONSTRUCTION CONSTRUCTION	\$20.00 LF \$1,000.00 EA SUB-TOTAL ===> B2), (BB3), (AA), and (\$20.00 LF \$1,000.00 EA SUB-TOTAL ===> N SUB-TOTAL ===> IGENCY - 10% ===>	\$25,000.00 \$6,000.00 \$49,600.0 0

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Landscape w/ Irrigation (Tra Vigne West - Park B Area)

Landscape w/ Irrigation (Open Space)

ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST		
Tra Vigne West In-Tract Parks, Landscaping, Open Space, and Recreational Improvements						
In-Tract Park Landscaping Improvements (Does Not Include Major Amenities)						
	Landscape w/ Irrigation (Tra Vigne West - Park A Area)	159,637	\$6.50 SF	\$1,037,640.50		

251,281

610,620

SUB-TOTAL ===> \$2,976,277.00

\$1,633,326.50

\$305,310.00

CONSTRUCTION SUB-TOTAL ===> \$2,976,277.00 CONTINGENCY - 10% ===> \$297,627.70 CONSTRUCTION TOTAL ===> \$3,273,904.70

\$6.50 SF

\$0.50 SF

SOFT COSTS - 35% ===> \$\frac{\$1,145,866.65}{\$4,419,771.35}\$

TOTAL LOTS ===> 794 COST PER LOT ===> \$5,566.46

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Tra Vigne West

Engineer's Estimate of Probable Cost Tra Vigne West Backbone In-Tract Improvements

QUANTITY UNIT COST ITEM **DESCRIPTION** COST

Total Tra Vigne West Site Mass Clearing and Rough Grading

SITE PREPARTION AND MASS GRADING

1.	Clearing, Grubbing, and Disposal	200	\$995.00 AC	\$199,000.00
2.	Remove and Dispose of Existing Pavement	1,000	\$3.00 SF	\$3,000.00
3.	Rough Grading - Streets and Super Pads	323,000	\$3.75 CY	\$1,211,250.00
4.	Street Fine Grading	639,000	\$0.40 SF	\$255,600.00
5.	Erosion Control Improvements	200	\$2,000.00 AC	\$400,000.00

SUB-TOTAL ===> \$2,068,850.00

SEGMENT - SUB-TOTAL ===> \$2,068,850.00

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ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
	Backbone Street Improvements for Road "A	\" - Segments (A	11), (A2), and (A3)	
A.	WATER			
1.	8" PVC - Water	1,050	\$25.00 LF	\$26,250.00
2.	8" Gate Valve	9	\$2,000.00 EA	\$18,000.00
3.	Hydrant Bury, Valve, and Tee	9	\$5,200.00 EA	\$46,800.00
4.	Blow-Off Valve	9	\$4,000.00 EA	\$36,000.00
5.	16" Water Connection	1	\$8,000.00 EA	\$8,000.00
			SUB-TOTAL ===>	\$135,050.00
В.	STORM			
1.	36" RCP - Storm Drainage	450	\$90.00 LF	\$40,500.00
2.	30" RCP - Storm Drainage	260	\$75.00 LF	\$19,500.00
3.	24" RCP - Storm Drainage	500	\$60.00 LF	\$30,000.00
4.	18" RCP - Storm Drainage	950	\$45.00 LF	\$42,750.00
5.	12" RCP - Storm Drainage	300	\$30.00 LF	\$9,000.00
6.	Curb Inlet - Stockton Vertical	18	\$3,000.00 EA	\$54,000.00
7.	48" - Storm Drainage Manhole	5	\$3,500.00 EA	\$17,500.00
8.	60" - Storm Drainage Manhole	1	\$5,500.00 EA	\$5,500.00
9.	72" - Storm Drainage Manhole	2	\$7,500.00 EA	\$15,000.00
10.	Stub and Plug Proposed Storm Drainage Line	1	\$1,500.00 EA	\$1,500.00
			SUB-TOTAL ===>	\$235,250.00
C.	SANITARY SEWER			
1.	8" PVC - Sanitary Sewer	970	\$35.00 LF	\$33,950.00
2.	48" - Sanitary Sewer Manhole	8	\$2,800.00 EA	\$22,400.00
3.	Stub and Plug Proposed Sanitary Sewer Line	9	\$2,500.00 EA	\$22,500.00
4.	Connect to Existing Sewer Manhole	1	\$4,500.00 EA	\$4,500.00
			SUB-TOTAL ===>	\$83,350.00
D.	STREETS			
1.	3.5" AC over 11.5" AB Pavement	80,100	\$4.23 SF	\$338,422.50
2.	6" Vertical Curb and Gutter	4,950	\$19.50 LF	\$96,525.00
3.	8" Median Curb	2,000	\$18.60 LF	\$37,200.00
4.	4" PCC Concrete Walk (Includes Ramps and Returns)	24,700	\$4.00 SF	\$98,800.00
5.	ADA Ramp (Labor and Truncated Domes Only)	18	\$1,900.00 EA	\$34,200.00
6.	100 Watt Electrolier	11	\$4,500.00 EA	\$49,500.00
	Street Monuments	7	\$310.00 EA	\$2,170.00
7.	+	4.000	\$1.75 EA	\$8,627.50
7. 8.	Traffic Delineation (Striping and Stop Bars)	4,930	Ψ1.70 Ε/	T -)
	Traffic Delineation (Striping and Stop Bars) Street Name and Directional Signs	4,930	\$380.00 EA	
8.	1 1 5 1 7			\$2,280.00 \$4,500.00

SEGMENT - SUB-TOTAL ===> \$1,496,375.00

SUB-TOTAL ===> \$1,042,725.00

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SEGMENT - SUB-TOTAL ===> \$669,065.00

TEM	DESCRIPTION	QUANTITY	UNIT COST	COST
	Backbone Street Improvements for	Road "B" - Seg	ment (B)	
Α.	WATER			
1.	Hydrant Bury, Valve, and Tee	2	\$5,200.00 EA	\$10,400.00
2.	Blow-off Valve	1	\$4,000.00 EA	\$4,000.00
3.	24" Water Connection	1	\$12,000.00 EA	\$12,000.00
			SUB-TOTAL ===>_	\$26,400.00
В.	STORM			
1.	24" RCP - Storm Drainage	300	\$60.00 LF	\$18,000.00
2.	18" RCP - Storm Drainage	580	\$45.00 LF	\$26,100.00
3.	12" RCP - Storm Drainage	250	\$30.00 LF	\$7,500.00
4.	Curb Inlet - Stockton Vertical	5	\$3,000.00 EA	\$15,000.00
5.	48" - Storm Drainage Manhole	3	\$3,500.00 EA	\$10,500.00
6.	Stub and Plug Proposed Storm Drainage Line	1	\$1,500.00 EA	\$1,500.00
			SUB-TOTAL ===>	\$78,600.00
C	CANITADV CEWED		SUB-TOTAL ===>_	\$78,600.00
C.	SANITARY SEWER 18" PVC - Sanitary Sewer	880	\$79.00 LF	
1.		880		\$69,520.00
1. 2.	18" PVC - Sanitary Sewer 48" - Sanitary Sewer Manhole		\$79.00 LF	\$69,520.00 \$5,600.00
	18" PVC - Sanitary Sewer	2	\$79.00 LF \$2,800.00 EA	\$69,520.00 \$5,600.00 \$10,000.00
2.	18" PVC - Sanitary Sewer48" - Sanitary Sewer ManholeStub and Plug Proposed Sanitary Sewer Line	2 4	\$79.00 LF \$2,800.00 EA \$2,500.00 EA	\$69,520.00 \$5,600.00 \$10,000.00 \$4,500.00
1. 2. 3. 4.	18" PVC - Sanitary Sewer48" - Sanitary Sewer ManholeStub and Plug Proposed Sanitary Sewer Line	2 4	\$79.00 LF \$2,800.00 EA \$2,500.00 EA \$4,500.00 EA	\$69,520.00 \$5,600.00 \$10,000.00 \$4,500.00
1. 2. 3. 4.	18" PVC - Sanitary Sewer 48" - Sanitary Sewer Manhole Stub and Plug Proposed Sanitary Sewer Line Connect to Existing Sewer Manhole	2 4	\$79.00 LF \$2,800.00 EA \$2,500.00 EA \$4,500.00 EA	\$69,520.00 \$5,600.00 \$10,000.00 \$4,500.00 \$89,620.00
1. 2. 3. 4.	18" PVC - Sanitary Sewer 48" - Sanitary Sewer Manhole Stub and Plug Proposed Sanitary Sewer Line Connect to Existing Sewer Manhole ROADS	2 4 1	\$79.00 LF \$2,800.00 EA \$2,500.00 EA \$4,500.00 EA SUB-TOTAL ===>	\$69,520.00 \$5,600.00 \$10,000.00 \$4,500.00 \$89,620.00
1. 2. 3. 4. D.	18" PVC - Sanitary Sewer 48" - Sanitary Sewer Manhole Stub and Plug Proposed Sanitary Sewer Line Connect to Existing Sewer Manhole ROADS 3.5" AC over 11.5" AB Pavement	2 4 1	\$79.00 LF \$2,800.00 EA \$2,500.00 EA \$4,500.00 EA SUB-TOTAL ===>	\$69,520.00 \$5,600.00 \$10,000.00 \$4,500.00 \$89,620.00 \$186,745.00 \$29,250.00
1. 2. 3. 4. D. 1. 2.	18" PVC - Sanitary Sewer 48" - Sanitary Sewer Manhole Stub and Plug Proposed Sanitary Sewer Line Connect to Existing Sewer Manhole ROADS 3.5" AC over 11.5" AB Pavement 6" Vertical Curb and Gutter	2 4 1 44,200 1,500	\$79.00 LF \$2,800.00 EA \$2,500.00 EA \$4,500.00 EA SUB-TOTAL ===> \$4.23 SF \$19.50 LF	\$69,520.00 \$5,600.00 \$10,000.00 \$4,500.00 \$89,620.00 \$186,745.00 \$29,250.00 \$33,480.00
1. 2. 3. 4. D. 1. 2.	18" PVC - Sanitary Sewer 48" - Sanitary Sewer Manhole Stub and Plug Proposed Sanitary Sewer Line Connect to Existing Sewer Manhole ROADS 3.5" AC over 11.5" AB Pavement 6" Vertical Curb and Gutter 8" Median Curb	2 4 1 1 44,200 1,500 1,800	\$79.00 LF \$2,800.00 EA \$2,500.00 EA \$4,500.00 EA SUB-TOTAL ===> \$4.23 SF \$19.50 LF \$18.60 LF	\$69,520.00 \$5,600.00 \$10,000.00 \$4,500.00 \$89,620.00 \$186,745.00 \$29,250.00 \$33,480.00 \$57,600.00
1. 2. 3. 4. D. 1. 2. 3. 4.	18" PVC - Sanitary Sewer 48" - Sanitary Sewer Manhole Stub and Plug Proposed Sanitary Sewer Line Connect to Existing Sewer Manhole ROADS 3.5" AC over 11.5" AB Pavement 6" Vertical Curb and Gutter 8" Median Curb 4" PCC Concrete Walk (Includes Ramps and Returns)	2 4 1 1 44,200 1,500 1,800 14,400	\$79.00 LF \$2,800.00 EA \$2,500.00 EA \$4,500.00 EA SUB-TOTAL ===> \$4.23 SF \$19.50 LF \$18.60 LF \$4.00 SF	\$69,520.00 \$5,600.00 \$10,000.00 \$4,500.00 \$89,620.00 \$186,745.00 \$29,250.00 \$33,480.00 \$57,600.00 \$11,400.00
1. 2. 3. 4. D. 1. 2. 3. 4.	18" PVC - Sanitary Sewer 48" - Sanitary Sewer Manhole Stub and Plug Proposed Sanitary Sewer Line Connect to Existing Sewer Manhole ROADS 3.5" AC over 11.5" AB Pavement 6" Vertical Curb and Gutter 8" Median Curb 4" PCC Concrete Walk (Includes Ramps and Returns) ADA Ramp (Labor and Truncated Domes Only)	2 4 1 1 44,200 1,500 1,800 14,400 6	\$79.00 LF \$2,800.00 EA \$2,500.00 EA \$4,500.00 EA SUB-TOTAL ===> \$4.23 SF \$19.50 LF \$18.60 LF \$4.00 SF \$1,900.00 EA	\$69,520.00 \$5,600.00 \$10,000.00 \$4,500.00 \$89,620.00 \$186,745.00 \$29,250.00 \$33,480.00 \$57,600.00 \$11,400.00 \$18,000.00
1. 2. 3. 4. D. 1. 2. 3. 4. 5.	18" PVC - Sanitary Sewer 48" - Sanitary Sewer Manhole Stub and Plug Proposed Sanitary Sewer Line Connect to Existing Sewer Manhole ROADS 3.5" AC over 11.5" AB Pavement 6" Vertical Curb and Gutter 8" Median Curb 4" PCC Concrete Walk (Includes Ramps and Returns) ADA Ramp (Labor and Truncated Domes Only) 100 Watt Electrolier	2 4 1 1 44,200 1,500 1,800 14,400 6 4	\$79.00 LF \$2,800.00 EA \$2,500.00 EA \$4,500.00 EA SUB-TOTAL ===> \$4.23 SF \$19.50 LF \$18.60 LF \$4.00 SF \$1,900.00 EA \$4,500.00 EA	\$69,520.00 \$5,600.00 \$10,000.00 \$4,500.00 \$89,620.00 \$186,745.00 \$29,250.00 \$33,480.00 \$57,600.00 \$11,400.00 \$18,000.00 \$620.00
1. 2. 3. 4. 1. 2. 3. 4. 5. 6. 7.	18" PVC - Sanitary Sewer 48" - Sanitary Sewer Manhole Stub and Plug Proposed Sanitary Sewer Line Connect to Existing Sewer Manhole ROADS 3.5" AC over 11.5" AB Pavement 6" Vertical Curb and Gutter 8" Median Curb 4" PCC Concrete Walk (Includes Ramps and Returns) ADA Ramp (Labor and Truncated Domes Only) 100 Watt Electrolier Street Monuments	2 4 1 1 44,200 1,500 1,800 14,400 6 4 2	\$79.00 LF \$2,800.00 EA \$2,500.00 EA \$4,500.00 EA SUB-TOTAL ===> \$4.23 SF \$19.50 LF \$18.60 LF \$4.00 SF \$1,900.00 EA \$4,500.00 EA \$310.00 EA	\$69,520.00 \$5,600.00 \$10,000.00 \$4,500.00 \$89,620.00 \$186,745.00 \$29,250.00 \$33,480.00 \$57,600.00 \$11,400.00 \$18,000.00 \$3,080.00
1. 2. 3. 4. 1. 2. 3. 4. 5. 6. 7. 8. 9.	18" PVC - Sanitary Sewer 48" - Sanitary Sewer Manhole Stub and Plug Proposed Sanitary Sewer Line Connect to Existing Sewer Manhole ROADS 3.5" AC over 11.5" AB Pavement 6" Vertical Curb and Gutter 8" Median Curb 4" PCC Concrete Walk (Includes Ramps and Returns) ADA Ramp (Labor and Truncated Domes Only) 100 Watt Electrolier Street Monuments Traffic Delineation (Striping and Stop bars)	2 4 1 1 44,200 1,500 1,800 14,400 6 4 2 1,760	\$79.00 LF \$2,800.00 EA \$2,500.00 EA \$4,500.00 EA SUB-TOTAL ===> \$4.23 SF \$19.50 LF \$18.60 LF \$4.00 SF \$1,900.00 EA \$4,500.00 EA \$310.00 EA \$1.75 EA	\$69,520.00 \$5,600.00 \$10,000.00 \$4,500.00 \$89,620.00 \$186,745.00 \$29,250.00 \$33,480.00 \$57,600.00 \$11,400.00 \$18,000.00 \$620.00 \$3,080.00 \$1,520.00
1. 2. 3. 4. 1. 2. 3. 4. 5. 6. 7.	18" PVC - Sanitary Sewer 48" - Sanitary Sewer Manhole Stub and Plug Proposed Sanitary Sewer Line Connect to Existing Sewer Manhole ROADS 3.5" AC over 11.5" AB Pavement 6" Vertical Curb and Gutter 8" Median Curb 4" PCC Concrete Walk (Includes Ramps and Returns) ADA Ramp (Labor and Truncated Domes Only) 100 Watt Electrolier Street Monuments Traffic Delineation (Striping and Stop bars) Street Name and Directional Signs	2 4 1 1 44,200 1,500 1,800 14,400 6 4 2 1,760 4	\$79.00 LF \$2,800.00 EA \$2,500.00 EA \$4,500.00 EA SUB-TOTAL ===> \$4.23 SF \$19.50 LF \$18.60 LF \$4.00 SF \$1,900.00 EA \$4,500.00 EA \$4,500.00 EA \$310.00 EA \$310.00 EA \$310.00 EA	\$78,600.00 \$69,520.00 \$5,600.00 \$10,000.00 \$4,500.00 \$89,620.00 \$186,745.00 \$29,250.00 \$33,480.00 \$57,600.00 \$11,400.00 \$18,000.00 \$1,520.00 \$750.00 \$132,000.00

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ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
	Backbone Street Improvements for Road "C" - Se	egments (C1), (C	C2), (C3), (C4), and (C	<u>5)</u>
A.	WATER			
1.	12" PVC - Water	1,290	\$60.00 LF	\$77,400.00
2.	12" Butterfly Valve	6	\$3,000.00 EA	\$18,000.00
3.	Blow-off Valve	9	\$4,000.00 EA	\$36,000.00
4.	Hydrant Bury, Valve, and Tee	2	\$5,200.00 EA	\$10,400.00
5.	24" Water Connection	1	\$12,000.00 EA	\$12,000.00
			SUB-TOTAL ===>_	\$153,800.00
В.	STORM			
1.	60" RCP - Storm Drainage	520	\$150.00 LF	\$78,000.00
2.	48" RCP - Storm Drainage	1,280	\$120.00 LF	\$153,600.00
3.	36" RCP - Storm Drainage	400	\$90.00 LF	\$36,000.00
4.	30" RCP - Storm Drainage	380	\$75.00 LF	\$28,500.00
5.	18" RCP - Storm Drainage	500	\$45.00 LF	\$22,500.00
6.	12" RCP - Storm Drainage	1,040	\$30.00 LF	\$31,200.00
7.	Curb Inlet - Stockton Vertical	26	\$3,000.00 EA	\$78,000.00
8.	48" - Storm Drainage Manhole	1	\$3,500.00 EA	\$3,500.00
9.	60" - Storm Drainage Manhole	1	\$5,500.00 EA	\$5,500.00
10.	72" - Storm Drainage Manhole	8	\$7,500.00 EA	\$60,000.00
11.	Stub and Plug Proposed Storm Drainage Line	2	\$1,500.00 EA	\$3,000.00
			SUB-TOTAL ===>	\$499,800.00
C.	SANITARY SEWER			
1.	18" PVC - Sanitary Sewer	770	\$79.00 LF	\$60,830.00
2.	12" PVC - Sanitary Sewer	1,270	\$42.00 LF	\$53,340.00
3.	10" PVC - Sanitary Sewer	150	\$38.50 LF	\$5,775.00
4.	8" PVC - Sanitary Sewer	200	\$35.00 LF	\$7,000.00
5.	48" - Sanitary Sewer Manhole	7	\$2,800.00 EA	\$19,600.00
6.	60" - Sanitary Sewer Manhole	3	\$6,000.00 EA	\$18,000.00
7.	Stub and Plug Proposed Sanitary Sewer Line	11	\$2,500.00 EA	\$27,500.00
			SUB-TOTAL ===>	\$192,045.00
D.	ROADS			
1.	3.5" AC over 11.5" AB Pavement	86,700	\$4.23 SF	\$366,307.50
2.	6" Vertical Curb and Gutter	6,090	\$19.50 LF	\$118,755.00
3.	4" PCC Concrete Walk (Includes Ramps and Returns)	30,500	\$4.00 SF	\$122,000.00
4.	ADA Ramp (Labor and Truncated Domes Only)	28	\$1,900.00 EA	\$53,200.00
5.	100 Watt Electrolier	12	\$4,500.00 EA	\$54,000.00
6.	Street Monuments	9	\$310.00 EA	\$2,790.00
7.	Traffic Delineation (Striping and Stop bars)	6,090	\$1.75 EA	\$10,657.50
8.	Street Name and Directional Signs	18	\$380.00 EA	\$6,840.00
9.	Street Barricade	12	\$750.00 EA	\$9,000.00
10.	Joint Trench Main	3,050	\$150.00 LF	\$457,500.00
		,	,	, ,
			SUB-TOTAL ===>	

SEGMENT - SUB-TOTAL ===> \$2,046,695.00

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SEGMENT - SUB-TOTAL ===> \$1,252,564.25

TEM	DESCRIPTION	QUANTITY	UNIT COST	COST
Back	sbone Street Improvements for Roads "AA", "BB" AND "F	Fr" - Segments	(BB1), (BB2), (BB3), (AA), and (FF)
Α.	WATER			
1.	8" PVC - Water	1,805	\$25.00 LF	\$45,125.0
2.	8" Gate Valve	10	\$2,000.00 EA	\$20,000.0
3.	Blow-off Valve	7	\$4,000.00 EA	\$28,000.0
4.	Hydrant Bury, Valve, and Tee	7	\$5,200.00 EA	\$36,400.0
5.	Water Connection	2	\$7,500.00 EA	\$15,000.0
			SUB-TOTAL ===>_	\$144,525.0
В.	STORM			
1.	18" RCP - Storm Drainage	1,050	\$45.00 LF	\$47,250.0
2.	12" RCP - Storm Drainage	720	\$30.00 LF	\$21,600.0
3.	Curb Inlet - Stockton Vertical	19	\$3,000.00 EA	\$57,000.0
4.	Stub and Plug Proposed Storm Drainage Line	1	\$1,500.00 EA	\$1,500.0
5.	48" - Storm Drainage Manhole	6	\$3,500.00 EA	\$21,000.0
			SUB-TOTAL ===>	\$148,350.0
C.	SANITARY SEWER			
1.	15" PVC - Sanitary Sewer	1,930	\$55.00 LF	\$106,150.0
2.	8" PVC - Sanitary Sewer	1,110	\$35.00 LF	\$38,850.0
3.	48" - Sanitary Sewer Manhole	6	\$2,800.00 EA	\$16,800.0
4.	Stub and Plug Proposed Sanitary Sewer Line	8	\$2,500.00 EA	\$20,000.0
5.	Connect to Existing Sewer Manhole	1	\$4,500.00 EA	\$4,500.0
			SUB-TOTAL ===>	\$186,300.0
D.	ROADS		_	
1.	3.5" AC over 11.5" AB Pavement	57,930	\$4.23 SF	\$244,754.2
2.	6" Vertical Curb and Gutter	4,100	\$19.50 LF	\$79,950.0
<u>2.</u> 3.	4" PCC Concrete Walk (Includes Ramps and Returns)	20,500	\$4.00 SF	\$82,000.0
3. 4.	ADA Ramp (Labor and Truncated Domes Only)	16	\$1,900.00 EA	\$30,400.0
		7		
5. 6.	100 Watt Electrolier	5	\$4,500.00 EA	\$31,500.0
о. 7.	Street Monuments Traffic Polinection (Striping and Step bars)		\$310.00 EA	\$1,550.0 \$6,755.0
	Traffic Delineation (Striping and Stop bars)	3,860	\$1.75 EA	\$6,755.0
8.	Street Name and Directional Signs	16	\$380.00 EA	\$6,080.0
9.	Street Barricade Joint Trench Main	1 001	\$750.00 EA \$150.00 LF	\$750.0
	LIOIDI TENCH MAIN	1 11.51	* 150 OO F	4 . / YU
10.	TOTAL MAIN	1,931	Ψ130.00 Ε1	\$289,650.0

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ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
	Backbone Street Improvements for Road "E'	' - Segment (E)	- East of Road "C"	
A.	WATER			
1.	8" PVC - Water	1,200	\$25.00 LF	\$30,000.00
2.	8" Gate Valve	8	\$2,000.00 EA	\$16,000.00
3.	Hydrant Bury, Valve, and Tee	5	\$5,200.00 EA	\$26,000.00
4.	Blow-off Valve	4	\$4,000.00 EA	\$16,000.00
5.	Water Connection	1	\$7,500.00 EA	\$7,500.00
			SUB-TOTAL ===>_	\$95,500.00
В.	STORM			
1.	24" RCP - Storm Drainage	1,200	\$60.00 LF	\$72,000.00
2.	12" RCP - Storm Drainage	600	\$30.00 LF	\$18,000.00
3.	60" - Storm Drainage Manhole	5	\$5,500.00 EA	\$27,500.00
4.	Curb Inlet - Stockton Vertical	15	\$3,000.00 EA	\$45,000.00
5.	Stub and Plug Proposed Storm Drainage Line	1	\$1,500.00 EA	\$1,500.00
			SUB-TOTAL ===>	\$164,000.00
C.	SANITARY SEWER			
1.	8" PVC - Sanitary Sewer	1,200	\$35.00 LF	\$42,000.00
2.	48" - Sanitary Sewer Manhole	5	\$2,800.00 EA	\$14,000.00
3.	Stub and Plug Proposed Sanitary Sewer Line	5	\$2,500.00 EA	\$12,500.00
4.	Connect to Existing Sewer Manhole	1	\$4,500.00 EA	\$4,500.00
			SUB-TOTAL ===>	\$73,000.00
D.	ROADS			
1.	3.5" AC over 11.5" AB Pavement	36,000	\$4.23 SF	\$152,100.00
2.	6" Vertical Curb and Gutter	2,340	\$19.50 LF	\$45,630.00
3.	4" PCC Concrete Walk (Includes Ramps and Returns)	11,700	\$4.00 SF	\$46,800.00
4.	ADA Ramp (Labor and Truncated Domes Only)	9	\$1,900.00 EA	\$17,100.00
5.	100 Watt Electrolier	5	\$4,500.00 EA	\$22,500.00
6.	Street Monuments	3	\$310.00 EA	\$930.00
7.	Traffic Delineation (Striping and Stop bars)	2,400	\$1.75 EA	\$4,200.00
8.	Street Name and Directional Signs	10	\$380.00 EA	\$3,800.00
9.	Street Barricade	1	\$750.00 EA	\$750.00
10.	Joint Trench Main	1,200	\$150.00 LF	\$180,000.00
			SUB-TOTAL ===>	\$473,810.00
		SEGMENT	- SUB-TOTAL ===>	\$806,310.00

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ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
	Backbone Street Improvements for Road	d "T" - Segment	(T1) and (T2)	
A.	WATER			
1.	8" PVC - Water	1,900	\$25.00 LF	\$47,500.00
2.	8" Gate Valve	10	\$2,000.00 EA	\$20,000.00
3.	Blow-off Valve	7	\$4,000.00 EA	\$28,000.00
4.	Hydrant Bury, Valve, and Tee	7	\$5,200.00 EA	\$36,400.00
5.	Water Connection	1	\$7,500.00 EA	\$7,500.00
			SUB-TOTAL ===>_	\$139,400.00
В.	STORM			
1.	60" RCP - Storm Drainage	800	\$150.00 LF	\$120,000.00
2.	42" RCP - Storm Drainage	1,100	\$105.00 LF	\$115,500.00
3.	30" RCP - Storm Drainage	740	\$75.00 LF	\$55,500.00
4.	12" RCP - Storm Drainage	400	\$30.00 LF	\$12,000.00
5.	Curb Inlet - Stockton Vertical	14	\$3,000.00 EA	\$42,000.00
6.	60" - Storm Drainage Manhole	3	\$5,500.00 EA	\$16,500.00
7.	72" - Storm Drainage Manhole	3	\$7,500.00 EA	\$22,500.00
8.	96" - Storm Drainage Manhole	3	\$9,500.00 EA	\$28,500.00
9.	Stub and Plug Proposed Storm Drainage Line	2	\$1,500.00 EA	\$3,000.00
10.	Bubble-up Structure with Rip Rap	1	\$5,500.00 LF	\$5,500.00
			SUB-TOTAL ===>	\$421,000.00
C.	SANITARY SEWER			
1.	8" PVC - Sanitary Sewer	1,900	\$35.00 LF	\$66,500.00
2.	48" - Sanitary Sewer Manhole	7	\$2,800.00 EA	\$19,600.00
3.	Stub and Plug Proposed Sanitary Sewer Line	7	\$2,500.00 EA	\$17,500.00
4.	Connect to Existing Sewer Manhole	1	\$4,500.00 EA	\$4,500.00
			SUB-TOTAL ===>	\$108,100.00
D.	ROADS			
1.	3.5" AC over 11.5" AB Pavement	54,450	\$4.23 SF	\$230,051.25
2.	6" Vertical Curb and Gutter	3,510	\$19.50 LF	\$68,445.00
3.	4" PCC Concrete Walk (Includes Ramps and Returns)	17,550	\$4.00 SF	\$70,200.00
4.	ADA Ramp (Labor and Truncated Domes Only)	8	\$1,900.00 EA	\$15,200.00
5.	100 Watt Electrolier	7	\$4,500.00 EA	\$31,500.00
6.	Street Monuments	5	\$310.00 EA	\$1,550.00
7.	Traffic Delineation (Striping and Stop bars)	3,510	\$1.75 EA	\$6,142.50
8.	Street Name and Directional Signs	12	\$380.00 EA	\$4,560.00
9.	Street Barricade	5	\$750.00 EA	\$3,750.00
10.	Joint Trench Main	1,815	\$150.00 LF	\$272,250.00
			SUB-TOTAL ===>	\$703,648.75

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SEGMENT - SUB-TOTAL ===> \$1,372,148.75

ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
11 - 141	DESCRIPTION	QUANTITI	01111 0001	0031
	In-Tract Parks, Landscaping, Open Space, a	nd Recreation	al Improvements	
Α.	ON-SITE PARKS LANDSCAPING (DOES NOT INCLUDE M	IAJOR AMENI	TIES)	
1.	Landscape w/ Irrigation (Streetscape)	113,420	\$5.00 SF	\$567,100.00
			SUB-TOTAL ===>	\$567,100.00
		PART 8	- SUB-TOTAL ===>	\$567,100.00
	C	ONSTRUCTIO	N SUB-TOTAL ===>	\$10,279,108.00
		CONTIN	IGENCY - 10% ===>	\$1,027,910.80
		CONSTRU	CTION TOTAL ===>	\$11,307,018.80
		SOFT	COSTS - 35% ===>	\$3,957,456.58
			GRAND TOTAL ===>	
			TOTAL LOTS ===>	794
		C	OST PER LOT ===>	

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SUB-TOTAL ===> \$144,250.00

Tra Vigne West Engineer's Estimate of Probable Cost

	Tra Vigne West In-Tract Improvements					
ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST		
	Phase 1 - In-Trac	ct Improvements:				
Α.	STREET GRADING					
1.	Clearing, Grubbing, and Disposal	12.9	\$995.00 AC	\$12,785.75		
2.	Rough Grading - Street Right-of-Way	7,830	\$4.50 CY	\$35,235.00		
3.	Street Fine Grading	140,500	\$0.40 SF	\$56,200.00		
4.	Erosion Control Improvements	16	\$2,000.00 AC	\$31,000.00		
5.	Mobilization - In-Tract	16	\$10,000.00 LS	\$155,000.00		
	MODIFICATION IN TRACE		ψ10,000.00 20	φ.ου,ουσ.ου		
			SUB-TOTAL ===>	\$290,220.75		
			_			
В.	WATER					
1.	8" PVC - Water	2,610	\$25.00 LF	\$65,250.00		
2.	8" Gate Valve	9	\$2,000.00 EA	\$18,000.00		
3.	Hydrant Bury, Valve, and Tee	7	\$5,200.00 EA	\$36,400.00		
4.	Blow-Off Valve	1	\$4,000.00 EA	\$4,000.00		
5.	1" House Service (Meter Not Included)	62	\$850.00 EA	\$52,700.00		
6.	18" Water Connection	2	\$9,000.00 EA	\$18,000.00		
7.	24" Water Connection	1	\$12,000.00 EA	\$12,000.00		
			SUB-TOTAL ===>	\$206,350.00		
_	OTO DIA					
<u>C.</u>	STORM 12" RCP - Storm Drainage	1,100	\$30.00 LF	ФОО 000 00		
1.	Curb Inlet - Stockton Vertical	1,100	\$3,000.00 EA	\$33,000.00		
<u>2.</u> 3.			. ,	\$39,000.00		
4.	48" - Storm Drainage Manhole	2 2	\$3,500.00 EA \$3,000.00 EA	\$7,000.00		
4.	Connect to Existing Storm Manhole	2	\$3,000.00 EA	\$6,000.00		
			SUB-TOTAL ===>	\$85,000.00		
			· <u>-</u>	. ,		
D.	SANITARY SEWER					
1.	8" PVC - Sanitary Sewer	2,290	\$35.00 LF	\$80,150.00		
2.	48" - Sanitary Sewer Manhole	8	\$2,800.00 EA	\$22,400.00		
3.	Lateral Service Connection	62	\$600.00 EA	\$37,200.00		
4.	Connect to Existing Sewer Manhole	1	\$4,500.00 EA	\$4,500.00		

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ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
E.	ROADS			
1.	3.0" AC over 9.0" AB Pavement	78,000	\$3.45 SF	\$269,100.00
2.	6" Vertical Curb and Gutter	4,950	\$19.50 LF	\$96,525.00
3.	4" PCC Concrete Walk (Includes Ramps and Returns)	24,700	\$4.00 SF	\$98,800.00
4.	ADA Ramp (Labor and Truncated Domes Only)	12	\$1,900.00 EA	\$22,800.00
5.	100 Watt Electrolier	9	\$4,500.00 EA	\$40,500.00
6.	Street Monuments	6	\$310.00 EA	\$1,860.00
7.	Traffic Delineation (Striping and Stop Bars)	4,950	\$1.75 EA	\$8,662.50
8.	Street Name and Directional Signs	9	\$380.00 EA	\$3,420.00
9.	Joint Trench	62	\$7,500.00 EA	\$465,000.00
10.	Landscape w/ Irrigation (Streetscape)	26,100	\$5.00 SF	\$130,500.00

SUB-TOTAL ===> \$1,137,167.50

Phase 1 - SUB-TOTAL ===> \$1,862,988.25

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ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST		
Phase 2 - In-Tract Improvements:						
	OTREET ORADINO					
A	STREET GRADING	11.0	Φ00E 00 AC	Ф11 144 OO		
<u>1.</u> 2.	Clearing, Grubbing, and Disposal	11.2 7.260	\$995.00 AC \$4.50 CY	\$11,144.00 \$32,670.00		
3.	Rough Grading - Street Right-of-Way Street Fine Grading	130,500	\$0.40 SF	\$52,200.00		
<u>3.</u> 4.	Erosion Control Improvements	130,300	\$2,000.00 AC	\$24,200.00		
5.	Mobilization - In-Tract	1	\$10,000.00 LS	\$10,000.00		
	MODIFIZATION - IN-Tract	l	\$10,000.00 LS	φ10,000.00		
			SUB-TOTAL ===>	\$130,214.00		
В.	WATER					
1.	8" PVC - Water	2,420	\$25.00 LF	\$60,500.00		
2.	8" Gate Valve	10	\$2,000.00 EA	\$20,000.00		
3.	Hydrant Bury, Valve, and Tee	7	\$5,200.00 EA	\$36,400.00		
4.	Blow-Off Valve	1	\$4,000.00 EA	\$4,000.00		
5.	1" House Service (Meter Not Included)	66	\$850.00 EA	\$56,100.00		
6.	Water Connection	1	\$7,500.00 EA	\$7,500.00		
			SUB-TOTAL ===>	\$184,500.00		
C.	STORM					
1.	12" RCP - Storm Drainage	610	\$30.00 LF	\$18,300.00		
2.	24" RCP - Storm Drainage	790	\$60.00 LF	\$47,400.00		
3.	Curb Inlet - Stockton Vertical	12	\$3,000.00 EA	\$36,000.00		
4.	48" - Storm Drainage Manhole	3	\$3,500.00 EA	\$10,500.00		
5.	60" - Storm Drainage Manhole	3	\$5,500.00 EA	\$16,500.00		
6.	Connect to Existing Storm Manhole	2	\$3,000.00 EA	\$6,000.00		
			SUB-TOTAL ===>	\$134,700.00		
D.	SANITARY SEWER		_			
1.	8" PVC - Sanitary Sewer	2,395	\$35.00 LF	\$83,825.00		
2.	48" - Sanitary Sewer Manhole	7	\$2,800.00 EA	\$19,600.00		
3.	Lateral Service Connection	66	\$600.00 EA	\$39,600.00		
4.	Connect to Existing Sewer Manhole	2	\$4,500.00 EA	\$9,000.00		
5.	Stub and Plug Proposed Sanitary Sewer Line	1	\$2,500.00 EA	\$2,500.00		
-	, ,	1				

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ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
E.	ROADS			
1.	3.0" AC over 9.0" AB Pavement	72,600	\$3.45 SF	\$250,470.00
2.	6" Vertical Curb and Gutter	4,710	\$19.50 LF	\$91,845.00
3.	4" PCC Concrete Walk (Includes Ramps and Returns)	23,550	\$4.00 SF	\$94,200.00
4.	ADA Ramp (Labor and Truncated Domes Only)	14	\$1,900.00 EA	\$26,600.00
5.	100 Watt Electrolier	9	\$4,500.00 EA	\$40,500.00
6.	Street Monuments	5	\$310.00 EA	\$1,550.00
7.	Traffic Delineation (Striping and Stop Bars)	4,710	\$1.75 EA	\$8,242.50
8.	Street Name and Directional Signs	10	\$380.00 EA	\$3,800.00
9.	Joint Trench	66	\$7,500.00 EA	\$495,000.00
10.	Landscape w/ Irrigation (Streetscape)	24,200	\$5.00 SF	\$121,000.00

SUB-TOTAL ===> \$1,133,207.50

Phase 2 - SUB-TOTAL ===> \$1,737,146.50

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ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
	Phase 3 - In-Tract Imp	rovements:		
Α.	STREET GRADING			
1.	Clearing, Grubbing, and Disposal	13.7	\$995.00 AC	\$13,631.50
2.	Rough Grading - Street Right-of-Way	4,750	\$4.50 CY	\$21,375.00
3.	Street Fine Grading	127,900	\$0.40 SF	\$51,160.00
4.	Erosion Control Improvements	16	\$2,000.00 AC	\$32,000.00
5.	Mobilization - In-Tract	1	\$10,000.00 LS	\$10,000.00
			SUB-TOTAL ===>	\$128,166.50
В.	WATER		_	
1.	8" PVC - Water	2,370	\$25.00 LF	\$59,250.00
2.	8" Gate Valve	8	\$2,000.00 EA	\$16,000.00
3.	Hydrant Bury, Valve, and Tee	7	\$5,200.00 EA	\$36,400.00
4.	Blow-Off Valve	1	\$4,000.00 EA	\$4,000.00
5.	1" House Service (Meter Not Included)	76	\$850.00 EA	\$64,600.00
6.	Water Connection	2	\$7,500.00 EA	\$15,000.00
			SUB-TOTAL ===>	\$195,250.00
			30B-101AL ===>_	\$195,250.0C
C. 1.	STORM 12" RCP - Storm Drainage	1,540	Ф00 00 I F	* 40 000 0
				せんに ついい い
		,	\$30.00 LF	
2.	Curb Inlet - Stockton Vertical	14	\$3,000.00 EA	\$42,000.00
2. 3.	Curb Inlet - Stockton Vertical 48" - Storm Drainage Manhole	14	\$3,000.00 EA \$3,500.00 EA	\$42,000.00 \$21,000.00
2.	Curb Inlet - Stockton Vertical	14	\$3,000.00 EA	\$42,000.00 \$21,000.00
2. 3.	Curb Inlet - Stockton Vertical 48" - Storm Drainage Manhole	14	\$3,000.00 EA \$3,500.00 EA	\$42,000.00 \$21,000.00 \$6,000.00
2. 3. 4.	Curb Inlet - Stockton Vertical 48" - Storm Drainage Manhole Connect to Existing Storm Manhole	14	\$3,000.00 EA \$3,500.00 EA \$3,000.00 EA	\$42,000.00 \$21,000.00 \$6,000.00
2. 3. 4. D.	Curb Inlet - Stockton Vertical 48" - Storm Drainage Manhole Connect to Existing Storm Manhole SANITARY SEWER	14 6 2	\$3,000.00 EA \$3,500.00 EA \$3,000.00 EA SUB-TOTAL ===>	\$42,000.00 \$21,000.00 \$6,000.00 \$115,200.00
2. 3. 4. D. 1.	Curb Inlet - Stockton Vertical 48" - Storm Drainage Manhole Connect to Existing Storm Manhole SANITARY SEWER 8" PVC - Sanitary Sewer	14 6 2	\$3,000.00 EA \$3,500.00 EA \$3,000.00 EA SUB-TOTAL ===>	\$42,000.00 \$21,000.00 \$6,000.00 \$115,200.00 \$82,600.00
2. 3. 4. D. 1. 2.	Curb Inlet - Stockton Vertical 48" - Storm Drainage Manhole Connect to Existing Storm Manhole SANITARY SEWER 8" PVC - Sanitary Sewer 48" - Sanitary Sewer Manhole	2,360 8	\$3,000.00 EA \$3,500.00 EA \$3,000.00 EA SUB-TOTAL ===> \$35.00 LF \$2,800.00 EA	\$42,000.00 \$21,000.00 \$6,000.00 \$115,200.00 \$82,600.00 \$22,400.00
2. 3. 4. D. 1. 2.	Curb Inlet - Stockton Vertical 48" - Storm Drainage Manhole Connect to Existing Storm Manhole SANITARY SEWER 8" PVC - Sanitary Sewer 48" - Sanitary Sewer Manhole Lateral Service Connection	2,360 8 76	\$3,000.00 EA \$3,500.00 EA \$3,000.00 EA SUB-TOTAL ===> \$35.00 LF \$2,800.00 EA \$600.00 EA	\$42,000.00 \$21,000.00 \$6,000.00 \$115,200.00 \$82,600.00 \$22,400.00 \$45,600.00
2. 3. 4. D. 1. 2.	Curb Inlet - Stockton Vertical 48" - Storm Drainage Manhole Connect to Existing Storm Manhole SANITARY SEWER 8" PVC - Sanitary Sewer 48" - Sanitary Sewer Manhole	2,360 8	\$3,000.00 EA \$3,500.00 EA \$3,000.00 EA SUB-TOTAL ===> \$35.00 LF \$2,800.00 EA	\$42,000.00 \$21,000.00 \$6,000.00 \$115,200.00 \$82,600.00 \$22,400.00 \$45,600.00
2. 3. 4. D. 1. 2.	Curb Inlet - Stockton Vertical 48" - Storm Drainage Manhole Connect to Existing Storm Manhole SANITARY SEWER 8" PVC - Sanitary Sewer 48" - Sanitary Sewer Manhole Lateral Service Connection	2,360 8 76	\$3,000.00 EA \$3,500.00 EA \$3,000.00 EA SUB-TOTAL ===> \$35.00 LF \$2,800.00 EA \$600.00 EA	\$46,200.00 \$42,000.00 \$21,000.00 \$6,000.00 \$115,200.00 \$22,400.00 \$45,600.00 \$9,000.00
2. 3. 4. D. 1. 2.	Curb Inlet - Stockton Vertical 48" - Storm Drainage Manhole Connect to Existing Storm Manhole SANITARY SEWER 8" PVC - Sanitary Sewer 48" - Sanitary Sewer Manhole Lateral Service Connection Connect to Existing Sewer Manhole ROADS	2,360 8 76 2	\$3,000.00 EA \$3,500.00 EA \$3,000.00 EA SUB-TOTAL ===> \$35.00 LF \$2,800.00 EA \$600.00 EA \$4,500.00 EA SUB-TOTAL ===>	\$42,000.00 \$21,000.00 \$6,000.00 \$115,200.00 \$82,600.00 \$22,400.00 \$45,600.00 \$9,000.00
2. 3. 4. D. 1. 2. 3. 4.	Curb Inlet - Stockton Vertical 48" - Storm Drainage Manhole Connect to Existing Storm Manhole SANITARY SEWER 8" PVC - Sanitary Sewer 48" - Sanitary Sewer Manhole Lateral Service Connection Connect to Existing Sewer Manhole ROADS 3.0" AC over 9.0" AB Pavement	2,360 8 76 2	\$3,000.00 EA \$3,500.00 EA \$3,000.00 EA SUB-TOTAL ===> \$35.00 LF \$2,800.00 EA \$600.00 EA \$4,500.00 EA \$4,500.00 EA	\$42,000.00 \$21,000.00 \$6,000.00 \$115,200.00 \$82,600.00 \$22,400.00 \$45,600.00 \$9,000.00 \$159,600.00
2. 3. 4. D. 1. 2. 3. 4.	Curb Inlet - Stockton Vertical 48" - Storm Drainage Manhole Connect to Existing Storm Manhole SANITARY SEWER 8" PVC - Sanitary Sewer 48" - Sanitary Sewer Manhole Lateral Service Connection Connect to Existing Sewer Manhole ROADS 3.0" AC over 9.0" AB Pavement 6" Vertical Curb and Gutter	2,360 8 76 2	\$3,000.00 EA \$3,500.00 EA \$3,000.00 EA SUB-TOTAL ===> \$35.00 LF \$2,800.00 EA \$600.00 EA \$4,500.00 EA SUB-TOTAL ===> \$3.45 SF \$19.50 LF	\$42,000.00 \$21,000.00 \$6,000.00 \$115,200.00 \$82,400.00 \$45,600.00 \$9,000.00 \$159,600.00 \$245,295.00 \$92,430.00
2. 3. 4. D. 1. 2. 3. 4.	Curb Inlet - Stockton Vertical 48" - Storm Drainage Manhole Connect to Existing Storm Manhole SANITARY SEWER 8" PVC - Sanitary Sewer 48" - Sanitary Sewer Manhole Lateral Service Connection Connect to Existing Sewer Manhole ROADS 3.0" AC over 9.0" AB Pavement 6" Vertical Curb and Gutter 4" PCC Concrete Walk (Includes Ramps and Returns)	2,360 8 76 2 71,100 4,740 23,700	\$3,000.00 EA \$3,500.00 EA \$3,000.00 EA SUB-TOTAL ===> \$35.00 LF \$2,800.00 EA \$600.00 EA \$4,500.00 EA SUB-TOTAL ===> \$3.45 SF \$19.50 LF \$4.00 SF	\$42,000.00 \$21,000.00 \$6,000.00 \$115,200.00 \$82,600.00 \$22,400.00 \$45,600.00 \$9,000.00 \$159,600.00 \$245,295.00 \$92,430.00 \$94,800.00
2. 3. 4. D. 1. 2. 3. 4. E. 1. 2. 3. 4.	Curb Inlet - Stockton Vertical 48" - Storm Drainage Manhole Connect to Existing Storm Manhole SANITARY SEWER 8" PVC - Sanitary Sewer 48" - Sanitary Sewer Manhole Lateral Service Connection Connect to Existing Sewer Manhole ROADS 3.0" AC over 9.0" AB Pavement 6" Vertical Curb and Gutter 4" PCC Concrete Walk (Includes Ramps and Returns) ADA Ramp (Labor and Truncated Domes Only)	2,360 8 76 2 71,100 4,740 23,700 12	\$3,000.00 EA \$3,500.00 EA \$3,000.00 EA SUB-TOTAL ===> \$35.00 LF \$2,800.00 EA \$600.00 EA \$4,500.00 EA \$4,500.00 EA \$1,500 LF \$1,900.00 EA	\$42,000.00 \$21,000.00 \$6,000.00 \$115,200.00 \$115,200.00 \$22,400.00 \$45,600.00 \$9,000.00 \$159,600.00 \$245,295.00 \$92,430.00 \$94,800.00 \$22,800.00
2. 3. 4. D. 1. 2. 3. 4. E. 1. 2. 3. 4. 5.	Curb Inlet - Stockton Vertical 48" - Storm Drainage Manhole Connect to Existing Storm Manhole SANITARY SEWER 8" PVC - Sanitary Sewer 48" - Sanitary Sewer Manhole Lateral Service Connection Connect to Existing Sewer Manhole ROADS 3.0" AC over 9.0" AB Pavement 6" Vertical Curb and Gutter 4" PCC Concrete Walk (Includes Ramps and Returns) ADA Ramp (Labor and Truncated Domes Only) 100 Watt Electrolier	2,360 8 76 2 71,100 4,740 23,700 12 10	\$3,000.00 EA \$3,500.00 EA \$3,000.00 EA SUB-TOTAL ===> \$35.00 LF \$2,800.00 EA \$600.00 EA \$4,500.00 EA \$4,500.00 EA \$1,900.00 EA \$1,900.00 EA \$4,500.00 EA	\$42,000.00 \$21,000.00 \$6,000.00 \$115,200.00 \$115,200.00 \$22,400.00 \$45,600.00 \$9,000.00 \$159,600.00 \$92,430.00 \$94,800.00 \$22,800.00 \$45,000.00
2. 3. 4. D. 1. 2. 3. 4. E. 1. 2. 3. 4. 5. 6.	Curb Inlet - Stockton Vertical 48" - Storm Drainage Manhole Connect to Existing Storm Manhole SANITARY SEWER 8" PVC - Sanitary Sewer 48" - Sanitary Sewer Manhole Lateral Service Connection Connect to Existing Sewer Manhole ROADS 3.0" AC over 9.0" AB Pavement 6" Vertical Curb and Gutter 4" PCC Concrete Walk (Includes Ramps and Returns) ADA Ramp (Labor and Truncated Domes Only) 100 Watt Electrolier Street Monuments	2,360 8 76 2 71,100 4,740 23,700 12 10 6	\$3,000.00 EA \$3,500.00 EA \$3,500.00 EA \$3,000.00 EA SUB-TOTAL ===> \$35.00 LF \$2,800.00 EA \$600.00 EA \$4,500.00 EA SUB-TOTAL ===> \$3.45 SF \$19.50 LF \$4.00 SF \$1,900.00 EA \$4,500.00 EA \$4,500.00 EA \$310.00 EA	\$42,000.00 \$21,000.00 \$6,000.00 \$115,200.00 \$115,200.00 \$22,400.00 \$45,600.00 \$9,000.00 \$159,600.00 \$92,430.00 \$94,800.00 \$45,000.00 \$1,860.00
2. 3. 4. D. 1. 2. 3. 4. E. 1. 2. 3. 4. 5. 6. 7.	Curb Inlet - Stockton Vertical 48" - Storm Drainage Manhole Connect to Existing Storm Manhole SANITARY SEWER 8" PVC - Sanitary Sewer 48" - Sanitary Sewer Manhole Lateral Service Connection Connect to Existing Sewer Manhole ROADS 3.0" AC over 9.0" AB Pavement 6" Vertical Curb and Gutter 4" PCC Concrete Walk (Includes Ramps and Returns) ADA Ramp (Labor and Truncated Domes Only) 100 Watt Electrolier Street Monuments Traffic Delineation (Striping and Stop Bars)	2,360 8 76 2 71,100 4,740 23,700 12 10 6 4,740	\$3,000.00 EA \$3,500.00 EA \$3,000.00 EA \$3,000.00 EA SUB-TOTAL ===> \$35.00 LF \$2,800.00 EA \$600.00 EA \$4,500.00 EA \$1,500.00 EA \$4,500.00 EA \$1,900.00 EA \$4,500.00 EA \$1,900.00 EA \$310.00 EA \$310.00 EA \$310.00 EA	\$42,000.00 \$21,000.00 \$6,000.00 \$115,200.00 \$115,200.00 \$22,400.00 \$45,600.00 \$9,000.00 \$159,600.00 \$92,430.00 \$94,800.00 \$22,800.00 \$45,000.00 \$1,860.00 \$8,295.00
2. 3. 4. D. 1. 2. 3. 4. 1. 2. 3. 4. 5. 6. 7. 8.	Curb Inlet - Stockton Vertical 48" - Storm Drainage Manhole Connect to Existing Storm Manhole SANITARY SEWER 8" PVC - Sanitary Sewer 48" - Sanitary Sewer Manhole Lateral Service Connection Connect to Existing Sewer Manhole ROADS 3.0" AC over 9.0" AB Pavement 6" Vertical Curb and Gutter 4" PCC Concrete Walk (Includes Ramps and Returns) ADA Ramp (Labor and Truncated Domes Only) 100 Watt Electrolier Street Monuments Traffic Delineation (Striping and Stop Bars) Street Name and Directional Signs	2,360 8 76 2 71,100 4,740 23,700 12 10 6 4,740 8	\$3,000.00 EA \$3,500.00 EA \$3,000.00 EA \$3,000.00 EA SUB-TOTAL ===> \$35.00 LF \$2,800.00 EA \$600.00 EA \$4,500.00 EA SUB-TOTAL ===> \$3.45 SF \$19.50 LF \$4.00 SF \$1,900.00 EA \$4,500.00 EA \$4,500.00 EA \$310.00 EA \$310.00 EA \$310.00 EA	\$42,000.00 \$21,000.00 \$6,000.00 \$115,200.00 \$22,400.00 \$45,600.00 \$9,000.00 \$159,600.00 \$92,430.00 \$94,800.00 \$22,800.00 \$45,000.00 \$45,000.00 \$3,040.00 \$3,040.00
2. 3. 4. D. 1. 2. 3. 4. E. 1. 2. 3. 4. 5. 6. 7.	Curb Inlet - Stockton Vertical 48" - Storm Drainage Manhole Connect to Existing Storm Manhole SANITARY SEWER 8" PVC - Sanitary Sewer 48" - Sanitary Sewer Manhole Lateral Service Connection Connect to Existing Sewer Manhole ROADS 3.0" AC over 9.0" AB Pavement 6" Vertical Curb and Gutter 4" PCC Concrete Walk (Includes Ramps and Returns) ADA Ramp (Labor and Truncated Domes Only) 100 Watt Electrolier Street Monuments Traffic Delineation (Striping and Stop Bars)	2,360 8 76 2 71,100 4,740 23,700 12 10 6 4,740	\$3,000.00 EA \$3,500.00 EA \$3,000.00 EA \$3,000.00 EA SUB-TOTAL ===> \$35.00 LF \$2,800.00 EA \$600.00 EA \$4,500.00 EA \$1,500.00 EA \$4,500.00 EA \$1,900.00 EA \$4,500.00 EA \$1,900.00 EA \$310.00 EA \$310.00 EA \$310.00 EA	\$42,000.00 \$21,000.00 \$6,000.00 \$115,200.00 \$115,200.00 \$22,400.00 \$45,600.00 \$9,000.00 \$159,600.00 \$92,430.00 \$94,800.00 \$22,800.00 \$45,000.00 \$1,860.00 \$8,295.00

SUB-TOTAL ===> \$1,204,520.00

Phase 3 - SUB-TOTAL ===> \$1,802,736.50

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ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
	Phase 4 - In-Tr	act Improvements:		
٨	STREET GRADING			
A.	Clearing, Grubbing, and Disposal	11.0	\$995.00 AC	\$10,945.00
2.	Rough Grading - Street Right-of-Way	5,460	\$4.50 CY	\$24,570.00
3.	Street Fine Grading	98,280	\$0.40 SF	\$39,312.00
4.	Erosion Control Improvements	12	\$2,000.00 AC	\$24,600.00
5.	Mobilization - In-Tract	12	\$10,000.00 LS	\$10,000.00
<u> </u>	MODINZATION - III-MACT	Į į	\$10,000.00 LS	φ10,000.00
			SUB-TOTAL ===>_	\$109,427.00
В.	WATER			
1.	8" PVC - Water	1,820	\$25.00 LF	\$45,500.00
2.	8" Gate Valve	9	\$2,000.00 EA	\$18,000.00
3.	Hydrant Bury, Valve, and Tee	6	\$5,200.00 EA	\$31,200.00
4.	Blow-Off Valve	1	\$4,000.00 EA	\$4,000.00
5.	1" House Service (Meter Not Included)	59	\$850.00 EA	\$50,150.00
6.	Water Connection	2	\$7,500.00 EA	\$15,000.00
			SUB-TOTAL ===>_	\$163,850.00
C.	STORM	, , , , , , , , , , , , , , , , , , ,		
1.	30" RCP - Storm Drainage	250	\$75.00 LF	\$18,750.00
2.	12" RCP - Storm Drainage	910	\$30.00 LF	\$27,300.00
3.	Curb Inlet - Stockton Vertical	15	\$3,000.00 EA	\$45,000.00
4.	72" - Storm Drainage Manhole	1	\$7,500.00 EA	\$7,500.00
5.	48" - Storm Drainage Manhole	5	\$3,500.00 EA	\$17,500.00
6.	Connect to Existing Storm Manhole	2	\$3,000.00 EA	\$6,000.00
			SUB-TOTAL ===>	\$122,050.00
D.	SANITARY SEWER			
1.	8" PVC - Sanitary Sewer	1,820	\$35.00 LF	\$63,700.00
2.	48" - Sanitary Sewer Manhole	7	\$2,800.00 EA	\$19,600.00
3.	Lateral Service Connection	59	\$600.00 EA	\$35,400.00
4.	Connect to Existing Sewer Manhole	2	\$4,500.00 EA	\$9,000.00
			SUB-TOTAL ===>	\$127,700.00

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ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
E.	ROADS			
1.	3.0" AC over 9.0" AB Pavement	54,600	\$3.45 SF	\$188,370.00
2.	6" Vertical Curb and Gutter	3,640	\$19.50 LF	\$70,980.00
3.	4" PCC Concrete Walk (Includes Ramps and Returns)	18,200	\$4.00 SF	\$72,800.00
4.	ADA Ramp (Labor and Truncated Domes Only)	15	\$1,900.00 EA	\$28,500.00
5.	100 Watt Electrolier	7	\$4,500.00 EA	\$31,500.00
6.	Street Monuments	5	\$310.00 EA	\$1,550.00
7.	Traffic Delineation (Striping and Stop Bars)	3,640	\$1.75 EA	\$6,370.00
8.	Street Name and Directional Signs	9	\$380.00 EA	\$3,420.00
9.	Joint Trench	59	\$7,500.00 EA	\$442,500.00
10.	Landscape w/ Irrigation (Streetscape)	18,200	\$5.00 SF	\$91,000.00

SUB-TOTAL ===> \$936,990.00

Phase 4 - SUB-TOTAL ===> \$1,460,017.00

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ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
Phase 5 - In-Tract Improvements:				
^	STREET GRADING			
A.	Clearing, Grubbing, and Disposal	12.1	\$995.00 AC	\$12,039.50
2.	Rough Grading - Street Right-of-Way	5,010	\$4.50 CY	\$22,545.00
3.	Street Fine Grading	90,180	\$0.40 SF	\$36,072.00
4.	Erosion Control Improvements	14	\$2,000.00 AC	\$28,000.00
5.	Mobilization - In-Tract	14	\$10,000.00 LS	\$10,000.00
	MODIIIZALIOTI - III-TTACL	I	\$10,000.00 LS	φ10,000.00
			SUB-TOTAL ===>	\$108,656.50
В.	WATER			
1.	8" PVC - Water	1,670	\$25.00 LF	\$41,750.00
2.	8" Gate Valve	9	\$2,000.00 EA	\$18,000.00
3.	Hydrant Bury, Valve, and Tee	7	\$5,200.00 EA	\$36,400.00
4.	Blow-Off Valve	1	\$4,000.00 EA	\$4,000.00
5.	1" House Service (Meter Not Included)	62	\$850.00 EA	\$52,700.00
6.	Water Connection	4	\$7,500.00 EA	\$30,000.00
			SUB-TOTAL ===>	\$192 950 00
			SUB-101AL ===>_	\$182,850.00
C.	STORM			
1.	30" RCP - Storm Drainage	470	\$75.00 LF	\$35,250.00
2.	12" RCP - Storm Drainage	550	\$30.00 LF	\$16,500.00
3.	Curb Inlet - Stockton Vertical	9	\$3,000.00 EA	\$27,000.00
4.	72" - Storm Drainage Manhole	3	\$7,500.00 EA	\$22,500.00
5.	48" - Storm Drainage Manhole	3	\$3,500.00 EA	\$10,500.00
6.	Connect to Existing Storm Manhole	3	\$3,000.00 EA	\$9,000.00
	Odiffied to Existing Storm Marifiole	3	ψ5,000.00 LA	ψ3,000.00
			SUB-TOTAL ===>	\$120,750.00
				ψ120,700.00
D.	SANITARY SEWER			
1.	8" PVC - Sanitary Sewer	1,670	\$35.00 LF	\$58,450.00
2.	48" - Sanitary Sewer Manhole	5	\$2,800.00 EA	\$14,000.00
3.	Lateral Service Connection	62	\$600.00 EA	\$37,200.00
4.	Connect to Existing Sewer Manhole	3	\$4,500.00 EA	\$13,500.00
			SUB-TOTAL ===>	\$123,150.00

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ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
E.	ROADS			
1.	3.0" AC over 9.0" AB Pavement	50,100	\$3.45 SF	\$172,845.00
2.	6" Vertical Curb and Gutter	3,340	\$19.50 LF	\$65,130.00
3.	4" PCC Concrete Walk (Includes Ramps and Returns)	16,700	\$4.00 SF	\$66,800.00
4.	ADA Ramp (Labor and Truncated Domes Only)	11	\$1,900.00 EA	\$20,900.00
5.	100 Watt Electrolier	6	\$4,500.00 EA	\$27,000.00
6.	Street Monuments	5	\$310.00 EA	\$1,550.00
7.	Traffic Delineation (Striping and Stop Bars)	3,340	\$1.75 EA	\$5,845.00
8.	Street Name and Directional Signs	13	\$380.00 EA	\$4,940.00
9.	Joint Trench	62	\$7,500.00 EA	\$465,000.00
10.	Landscape w/ Irrigation (Streetscape)	16,700	\$5.00 SF	\$83,500.00

SUB-TOTAL ===> \$913,510.00

Phase 5 - SUB-TOTAL ===> \$1,448,916.50

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ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
	Phase 6 - In-Tract Im	provements:		
•	CTREET OR ADINO			
A.	STREET GRADING	15.0	Ф00E 00 AC	Ф1E E00 00
1.	Clearing, Grubbing, and Disposal	15.6	\$995.00 AC	\$15,522.00
2.	Rough Grading - Street Right-of-Way	5,400	\$4.50 CY	\$24,300.00
3.	Street Fine Grading	97,200	\$0.40 SF	\$38,880.00
4.	Erosion Control Improvements	14	\$2,000.00 AC	\$27,000.00
5.	Mobilization - In-Tract	1	\$10,000.00 LS	\$10,000.00
			SUB-TOTAL ===>	\$115,702.00
В.	WATER			
1.	8" PVC - Water	1,800	\$25.00 LF	\$45,000.00
2.	8" Gate Valve	12	\$2,000.00 EA	\$24,000.00
3.	Hydrant Bury, Valve, and Tee	8	\$5,200.00 EA	\$41,600.00
4.	Blow-Off Valve	1	\$4,000.00 EA	\$4,000.00
5.	1" House Service (Meter Not Included)	81	\$850.00 EA	\$68,850.00
6.	Water Connection	6	\$7,500.00 EA	\$45,000.00
			OUD TOTAL	#000 450 00
			SUB-TOTAL ===>_	\$228,450.00
C.	STORM			
1.	12" RCP - Storm Drainage	1,150	\$30.00 LF	\$34,500.00
2.	Curb Inlet - Stockton Vertical	12	\$3,000.00 EA	\$36,000.00
3.	72" - Storm Drainage Manhole	2	\$7,500.00 EA	\$15,000.00
4.	60" - Storm Drainage Manhole	2	\$5,500.00 EA	\$11,000.00
5.	48" - Storm Drainage Manhole	2	\$3,500.00 EA	\$7,000.00
6.	Connect to Existing Storm Manhole	6	\$3,000.00 EA	\$18,000.00
			SUB-TOTAL ===>	\$121,500.00
D.	SANITARY SEWER			
1.	8" PVC - Sanitary Sewer	1,700	\$35.00 LF	\$59,500.00
2.	48" - Sanitary Sewer Manhole	6	\$2,800.00 EA	\$16,800.00
3.	Lateral Service Connection	81	\$600.00 EA	\$48,600.00
4.	Connect to Existing Sewer Manhole	4	\$4,500.00 EA	\$18,000.00
-		<u>.</u>		
			SUB-TOTAL ===>	\$142,900.00

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ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
E.	ROADS			
1.	3.0" AC over 9.0" AB Pavement	54,000	\$3.45 SF	\$186,300.00
2.	6" Vertical Curb and Gutter	3,600	\$19.50 LF	\$70,200.00
3.	4" PCC Concrete Walk (Includes Ramps and Returns)	18,000	\$4.00 SF	\$72,000.00
4.	ADA Ramp (Labor and Truncated Domes Only)	12	\$1,900.00 EA	\$22,800.00
5.	100 Watt Electrolier	10	\$4,500.00 EA	\$45,000.00
6.	Street Monuments	8	\$310.00 EA	\$2,480.00
7.	Traffic Delineation (Striping and Stop Bars)	3,600	\$1.75 EA	\$6,300.00
8.	Street Name and Directional Signs	12	\$380.00 EA	\$4,560.00
9.	Joint Trench	81	\$7,500.00 EA	\$607,500.00
10.	Landscape w/ Irrigation (Streetscape)	18,000	\$5.00 SF	\$90,000.00

SUB-TOTAL ===> \$1,107,140.00

Phase 6 - SUB-TOTAL ===> \$1,715,692.00

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ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
	Phase 7 - In-Trac	t Improvements:		
Α.	STREET GRADING			
1.	Clearing, Grubbing, and Disposal	10.2	\$995.00 AC	\$10,149.00
2.	Rough Grading - Street Right-of-Way	6,360	\$4.50 CY	\$28,620.00
3.	Street Fine Grading	114,480	\$0.40 SF	\$45,792.00
4.	Erosion Control Improvements	11	\$2,000.00 AC	\$21,600.00
5.	Mobilization - In-Tract	1	\$10,000.00 LS	\$10,000.00
			SUB-TOTAL ===>_	\$116,161.00
В.	WATER			
1.	8" PVC - Water	2,120	\$25.00 LF	\$53,000.00
2.	8" Gate Valve	9	\$2,000.00 EA	\$18,000.00
3.	Hydrant Bury, Valve, and Tee	6	\$5,200.00 EA	\$31,200.00
4.	Blow-Off Valve	5	\$4,000.00 EA	\$20,000.00
5.	1" House Service (Meter Not Included)	62	\$850.00 EA	\$52,700.00
6.	Water Connection	2	\$7,500.00 EA	\$15,000.00
			SUB-TOTAL ===>	\$189,900.00
<u>C.</u>	STORM	200	* 45 00 1 5	400,000,00
1.	18" RCP - Storm Drainage	800	\$45.00 LF	\$36,000.00
2.	12" RCP - Storm Drainage	350	\$30.00 LF	\$10,500.00
3.	Curb Inlet - Stockton Vertical	10	\$3,000.00 EA	\$30,000.00
4.	72" - Storm Drainage Manhole	2	\$7,500.00 EA	\$15,000.00
5.	48" - Storm Drainage Manhole	4	\$3,500.00 EA	\$14,000.00
6.	Connect to Existing Storm Manhole	2	\$3,000.00 EA	\$6,000.00
			SUB-TOTAL ===>_	\$111,500.00
D.	SANITARY SEWER			
		0.045	ΦΩΕ ΩΩ Ι.Ε.	Φ74 F7F 00
1.	8" PVC - Sanitary Sewer	2,045	\$35.00 LF	\$71,575.00
1. 2.	8" PVC - Sanitary Sewer 48" - Sanitary Sewer Manhole	2,045	\$35.00 LF \$2,800.00 EA	\$71,575.00
2.	48" - Sanitary Sewer Manhole Lateral Service Connection Connect to Existing Sewer Manhole	8	\$2,800.00 EA	\$22,400.00
2. 3.	48" - Sanitary Sewer Manhole Lateral Service Connection	8 62	\$2,800.00 EA \$600.00 EA	\$22,400.00 \$37,200.00

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ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
E.	ROADS			
1.	3.0" AC over 9.0" AB Pavement	63,600	\$3.45 SF	\$219,420.00
2.	6" Vertical Curb and Gutter	4,240	\$19.50 LF	\$82,680.00
3.	4" PCC Concrete Walk (Includes Ramps and Returns)	21,200	\$4.00 SF	\$84,800.00
4.	ADA Ramp (Labor and Truncated Domes Only)	10	\$1,900.00 EA	\$19,000.00
5.	100 Watt Electrolier	8	\$4,500.00 EA	\$36,000.00
6.	Street Monuments	5	\$310.00 EA	\$1,550.00
7.	Traffic Delineation (Striping and Stop Bars)	4,240	\$1.75 EA	\$7,420.00
8.	Street Name and Directional Signs	8	\$380.00 EA	\$3,040.00
9.	Joint Trench	62	\$7,500.00 EA	\$465,000.00
10.	Landscape w/ Irrigation (Streetscape)	21,200	\$5.00 SF	\$106,000.00

SUB-TOTAL ===> \$1,024,910.00

Phase 7 - SUB-TOTAL ===> \$1,587,646.00

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ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST	
Phase 8 - In-Tract Improvements:					
	OTREET ORANING	_			
<u>A.</u>	STREET GRADING	47.0	# 005.00.40	017.111.00	
1.	Clearing, Grubbing, and Disposal	17.2	\$995.00 AC	\$17,114.00	
2.	Rough Grading - Street Right-of-Way	4,725	\$4.50 CY	\$21,262.50	
3.	Street Fine Grading	85,050	\$0.40 SF	\$34,020.00	
4.	Erosion Control Improvements	18.5	\$2,000.00 AC	\$37,000.00	
5.	Mobilization - In-Tract	1	\$10,000.00 LS	\$10,000.00	
			SUB-TOTAL ===>	\$119,396.50	
_			_		
<u>B.</u>	WATER	4 575	ФОГ 00 I Г	Φ00 075 00	
1.	8" PVC - Water	1,575	\$25.00 LF	\$39,375.00	
2.	8" Gate Valve	8	\$2,000.00 EA	\$16,000.00	
3.	Hydrant Bury, Valve, and Tee	7	\$5,200.00 EA	\$36,400.00	
4.	Blow-Off Valve	2	\$4,000.00 EA	\$8,000.00	
5.	1" House Service (Meter Not Included)	54	\$850.00 EA	\$45,900.00	
6.	Water Connection	4	\$7,500.00 EA	\$30,000.00	
			SUB-TOTAL ===>	\$175,675.00	
				·	
C.	STORM				
1.	24" RCP - Storm Drainage	400	\$60.00 LF	\$24,000.00	
2.	12" RCP - Storm Drainage	975	\$30.00 LF	\$29,250.00	
3.	Curb Inlet - Stockton Vertical	10	\$3,000.00 EA	\$30,000.00	
4.	60" - Storm Drainage Manhole	2	\$5,500.00 EA	\$11,000.00	
5.	48" - Storm Drainage Manhole	3	\$3,500.00 EA	\$10,500.00	
6.	Connect to Existing Storm Manhole	5	\$3,000.00 EA	\$15,000.00	
			SUB-TOTAL ===>	\$119,750.00	
			SUB-101AL ===>_	\$119,750.00	
D.	SANITARY SEWER				
1.	8" PVC - Sanitary Sewer	1,575	\$35.00 LF	\$55,125.00	
2.	48" - Sanitary Sewer Manhole	6	\$2,800.00 EA	\$16,800.00	
3.	Lateral Service Connection	54	\$600.00 EA	\$32,400.00	
4.	Connect to Existing Sewer Manhole	5	\$4,500.00 EA	\$22,500.00	
	SUB-TOTAL ===> \$126,825.00				

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ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
E.	ROADS			
1.	3.0" AC over 9.0" AB Pavement	47,250	\$3.45 SF	\$163,012.50
2. 3.	6" Vertical Curb and Gutter	3,150	\$19.50 LF	\$61,425.00
3.	4" PCC Concrete Walk (Includes Ramps and Returns)	15,750	\$4.00 SF	\$63,000.00
4.	ADA Ramp (Labor and Truncated Domes Only)	10	\$1,900.00 EA	\$19,000.00
5.	100 Watt Electrolier	6	\$4,500.00 EA	\$27,000.00
6.	Street Monuments	5	\$310.00 EA	\$1,550.00
7.	Traffic Delineation (Striping and Stop Bars)	3,150	\$1.75 EA	\$5,512.50
8.	Street Name and Directional Signs	8	\$380.00 EA	\$3,040.00
9.	Joint Trench	54	\$7,500.00 EA	\$405,000.00
10.	Landscape w/ Irrigation (Streetscape)	15,750	\$5.00 SF	\$78,750.00

SUB-TOTAL ===> \$827,290.00

Phase 8 - SUB-TOTAL ===> \$1,368,936.50

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ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
	Phase 9 - In-Tract	Improvements:		
Α.	STREET GRADING			
1.	Clearing, Grubbing, and Disposal	11.3	\$995.00 AC	\$11,243.50
2.	Rough Grading - Street Right-of-Way	5,685	\$4.50 CY	\$25,582.50
3.	Street Fine Grading	102,330	\$0.40 SF	\$40,932.00
4.	Erosion Control Improvements	14.6	\$2,000.00 AC	\$29,200.00
5.	Mobilization - In-Tract	1	\$10,000.00 LS	\$10,000.00
			SUB-TOTAL ===>	\$116,958.00
В.	WATER			
1.	16" PVC - Water	300	\$80.00 LF	\$24,000.00
2.	16" Butterfly Valve	2	\$4,000.00 EA	\$8,000.00
3.	8" PVC - Water	1,595	\$25.00 LF	\$39,875.00
4.	8" Gate Valve	9	\$2,000.00 EA	\$18,000.00
5.	Hydrant Bury, Valve, and Tee	7	\$5,200.00 EA	\$36,400.00
6.	Blow-Off Valve	3	\$4,000.00 EA	\$12,000.00
7.	1" House Service (Meter Not Included)	71	\$850.00 EA	\$60,350.00
8.	Water Connection	5	\$7,500.00 EA	\$37,500.00
			SUB-TOTAL ===>	\$236,125.00
			_	+,
<u>C.</u>	STORM	150	***	*******
1.	24" RCP - Storm Drainage	150	\$60.00 LF	\$9,000.00
2.	18" RCP - Storm Drainage	750	\$45.00 LF	\$33,750.00
3.	12" RCP - Storm Drainage	400	\$30.00 LF	\$12,000.00
4.	Curb Inlet - Stockton Vertical	17	\$3,000.00 EA	\$51,000.00
5.	72" - Storm Drainage Manhole	1	\$7,500.00 EA	\$7,500.00
6.	48" - Storm Drainage Manhole	9 5	\$3,500.00 EA	\$31,500.00
<u>7.</u>	Connect to Existing Storm Manhole Stub and Plug Proposed Storm Drainage Line	1	\$3,000.00 EA \$1,500.00 EA	\$15,000.00 \$1,500.00
	Stub and Flug Froposed Storm Dramage Line	l l	φ1,300.00 LA	φ1,500.00
			SUB-TOTAL ===>	\$161,250.00
			_	,
D.	SANITARY SEWER			
1.	8" PVC - Sanitary Sewer	1,420	\$35.00 LF	\$49,700.00
2.	48" - Sanitary Sewer Manhole	8	\$2,800.00 EA	\$22,400.00
3.	Lateral Service Connection	71	\$600.00 EA	\$42,600.00
4.	Connect to Existing Sewer Manhole	5	\$4,500.00 EA	\$22,500.00
5.	Stub and Plug Proposed Sanitary Sewer Line	1	\$2,500.00 EA	\$2,500.00
			SUB-TOTAL ===>	\$139,700.00

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ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
E.	ROADS			
1.	3.0" AC over 9.0" AB Pavement	56,850	\$3.45 SF	\$196,132.50
2.	6" Vertical Curb and Gutter	3,790	\$19.50 LF	\$73,905.00
3.	4" PCC Concrete Walk (Includes Ramps and Returns)	18,950	\$4.00 SF	\$75,800.00
4.	ADA Ramp (Labor and Truncated Domes Only)	16	\$1,900.00 EA	\$30,400.00
5.	100 Watt Electrolier	7	\$4,500.00 EA	\$31,500.00
6.	Street Monuments	7	\$310.00 EA	\$2,170.00
7.	Traffic Delineation (Striping and Stop Bars)	3,790	\$1.75 EA	\$6,632.50
8.	Street Name and Directional Signs	12	\$380.00 EA	\$4,560.00
9.	Joint Trench	71	\$7,500.00 EA	\$532,500.00
10.	Landscape w/ Irrigation (Streetscape)	18,950	\$5.00 SF	\$94,750.00

SUB-TOTAL ===> \$1,048,350.00

Phase 9 - SUB-TOTAL ===> \$1,702,383.00

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ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
	Phase 10 - In-Tract	t Improvements:		
	CTREET CRADING			
A.	STREET GRADING	12.9	\$995.00 AC	\$10.00E E0
<u>1.</u> 2.	Clearing, Grubbing, and Disposal Rough Grading - Street Right-of-Way	5,580	\$4.50 CY	\$12,835.50
3.	Street Fine Grading	100,440	\$0.40 SF	\$25,110.00 \$40,176.00
<u> </u>	Erosion Control Improvements	12.9	\$2,000.00 AC	\$25,800.00
5.	Mobilization - In-Tract	12.9	\$10,000.00 AC	\$10,000.00
6.	Finish and Clean-Up	1	\$40,000.00 LS	\$40,000.00
<u> </u>	Finish and Clean-Op	ı	\$40,000.00 LS	\$40,000.00
			SUB-TOTAL ===>_	\$153,921.50
В.	WATER			
1.	8" PVC - Water	1,860	\$25.00 LF	\$46,500.00
2.	8" Gate Valve	8	\$2,000.00 EA	\$16,000.00
3.	Hydrant Bury, Valve, and Tee	8	\$5,200.00 EA	\$41,600.00
4.	Blow-Off Valve	1	\$4,000.00 EA	\$4,000.00
5.	1" House Service (Meter Not Included)	85	\$850.00 EA	\$72,250.00
6.	Water Connection	3	\$7,500.00 EA	\$22,500.00
	07004		SUB-TOTAL ===>_	\$202,850.00
<u>C.</u>	STORM	1 100	ФСО ОО I Г	Ф71 400 00
1.	24" RCP - Storm Drainage	1,190	\$60.00 LF	\$71,400.00
2.	12" RCP - Storm Drainage	400	\$30.00 LF	\$12,000.00
3.	Curb Inlet - Stockton Vertical	12	\$3,000.00 EA	\$36,000.00
4.	72" - Storm Drainage Manhole	3	\$7,500.00 EA	\$22,500.00
5.	48" - Storm Drainage Manhole Connect to Existing Storm Manhole	2	\$3,500.00 EA	\$7,000.00
6.		2	\$3,000.00 EA	\$6,000.00
7.	Stub and Plug Proposed Storm Drainage Line	1	\$1,500.00 EA	\$1,500.00
			SUB-TOTAL ===>	\$156,400.00
D.	SANITARY SEWER			
1.	8" PVC - Sanitary Sewer	1,860	\$35.00 LF	\$65,100.00
2.	48" - Sanitary Sewer Manhole	6	\$2,800.00 EA	\$16,800.00
3.	Lateral Service Connection	85	\$600.00 EA	\$51,000.00
4.	Connect to Existing Sewer Manhole	3	\$4,500.00 EA	\$13,500.00
5.	Stub and Plug Proposed Sanitary Sewer Line	1	\$2,500.00 EA	\$2,500.00
			SUB-TOTAL ===>	\$148,900.00

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ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
E.	ROADS			
1.	3.0" AC over 9.0" AB Pavement	55,800	\$3.45 SF	\$192,510.00
2.	6" Vertical Curb and Gutter	3,720	\$19.50 LF	\$72,540.00
3.	4" PCC Concrete Walk (Includes Ramps and Returns)	18,600	\$4.00 SF	\$74,400.00
4.	ADA Ramp (Labor and Truncated Domes Only)	11	\$1,900.00 EA	\$20,900.00
5.	100 Watt Electrolier	7	\$4,500.00 EA	\$31,500.00
6.	Street Monuments	6	\$310.00 EA	\$1,860.00
7.	Traffic Delineation (Striping and Stop Bars)	3,720	\$1.75 EA	\$6,510.00
8.	Street Name and Directional Signs	12	\$380.00 EA	\$4,560.00
9.	Joint Trench	85	\$7,500.00 EA	\$637,500.00
10.	Landscape w/ Irrigation (Streetscape)	18,600	\$5.00 SF	\$93,000.00

SUB-TOTAL ===> \$1,135,280.00

Phase 10 - SUB-TOTAL ===> \$1,797,351.50

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ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
	Phase 11 - In-Tract	t Improvements:		
Α.	CTREET CRADING			
A.	STREET GRADING Clearing, Grubbing, and Disposal	10.7	\$995.00 AC	\$10,646.50
2.	Rough Grading - Street Right-of-Way	5,970	\$4.50 CY	\$26,865.00
3.	Street Fine Grading	107,460	\$0.40 SF	\$42,984.00
4.	Erosion Control Improvements	10.7	\$2,000.00 AC	\$21,400.00
5.	Mobilization - In-Tract	10.7	\$10,000.00 LS	\$10,000.00
6.	Finish and Clean-UP	1	\$40,000.00 LS	\$40,000.00
	I mish and oldan of	'	ψ+0,000.00 LO	ψ+0,000.00
			SUB-TOTAL ===>_	\$151,895.50
В.	WATER			
1.	8" PVC - Water	1,990	\$25.00 LF	\$49,750.00
2.	8" Gate Valve	7	\$2,000.00 EA	\$14,000.00
3.	Hydrant Bury, Valve, and Tee	7	\$5,200.00 EA	\$36,400.00
4.	Blow-Off Valve	1	\$4,000.00 EA	\$4,000.00
5.	1" House Service (Meter Not Included)	67	\$850.00 EA	\$56,950.00
6.	Water Connection	2	\$7,500.00 EA	\$15,000.00
	otopu.		SUB-TOTAL ===>_	\$176,100.00
<u>C.</u>	STORM	400	¢60.00.1.F	#04.000.00
<u>1.</u> 2.	24" RCP - Storm Drainage 12" RCP - Storm Drainage	700	\$60.00 LF \$30.00 LF	\$24,000.00
3.	Curb Inlet - Stockton Vertical	10	\$3,000.00 EA	\$21,000.00 \$30,000.00
<u>3.</u> 4.	72" - Storm Drainage Manhole	2	\$7,500.00 EA	\$15,000.00
5.	48" - Storm Drainage Manhole	4	\$3,500.00 EA	\$14,000.00
6.	Connect to Existing Storm Manhole	2	\$3,000.00 EA	\$6,000.00
7.	Stub and Plug Proposed Storm Drainage Line	1	\$1,500.00 EA	\$1,500.00
	Stub and Flug Froposed Storm Dramage Line	ı	ψ1,500.00 LA	ψ1,300.00
			SUB-TOTAL ===>_	\$111,500.00
D.	SANITARY SEWER			
1.	8" PVC - Sanitary Sewer	1,990	\$35.00 LF	\$69,650.00
2.	48" - Sanitary Sewer Manhole	6	\$2,800.00 EA	\$16,800.00
3.	Lateral Service Connection	67	\$600.00 EA	\$40,200.00
4.	Connect to Existing Sewer Manhole	2	\$4,500.00 EA	\$9,000.00
5.	Stub and Plug Proposed Sanitary Sewer Line	1	\$2,500.00 EA	\$2,500.00
			SUB-TOTAL ===>	\$138,150.00
			33D-131AL ===>	ψ130,130.00

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ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
E.	ROADS			
1.	3.0" AC over 9.0" AB Pavement	59,700	\$3.45 SF	\$205,965.00
2.	6" Vertical Curb and Gutter	3,980	\$19.50 LF	\$77,610.00
3.	4" PCC Concrete Walk (Includes Ramps and Returns)	19,900	\$4.00 SF	\$79,600.00
4.	ADA Ramp (Labor and Truncated Domes Only)	11	\$1,900.00 EA	\$20,900.00
5.	100 Watt Electrolier	7	\$4,500.00 EA	\$31,500.00
6.	Street Monuments	3	\$310.00 EA	\$930.00
7.	Traffic Delineation (Striping and Stop Bars)	3,980	\$1.75 EA	\$6,965.00
8.	Street Name and Directional Signs	9	\$380.00 EA	\$3,420.00
9.	Joint Trench	67	\$7,500.00 EA	\$502,500.00
10.	Landscape w/ Irrigation (Streetscape)	19,900	\$5.00 SF	\$99,500.00

SUB-TOTAL ===> \$1,028,890.00

Phase 11 - SUB-TOTAL ===> \$1,606,535.50

CONSTRUCTION SUB-TOTAL ===> \$18,090,349.25

CONTINGENCY - 10% ===> \$\frac{\$1,809,034.93}{\$19,899,384.18}\$

SOFT COSTS - 35% ===> <u>\$6,964,784.46</u> GRAND TOTAL ===> \$26,864,168.64

TOTAL LOTS ===> <u>794</u> COST PER LOT ===> \$33,833.97

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Tra Vigne (West & East)Engineer's Estimate of Probable Cost

	Engineer's Estimate of Probable Cost			
	Tra Vigne East In-Tract Major	Infrastructui	re	
ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
	Tra Vigne East Oversized Backbone Wat	er System In	provements	
		-		
Overs	ized Water System for Backbone Roads			
1.	16" PVC - Water	3,086	\$80.00 LF	\$246,880.00
2.	16" Butterfly Valve	8	\$4,000.00 EA	\$32,000.00
-	,		. ,	
			SUB-TOTAL ===>	\$278,880.00
			_	· ,
	С	ONSTRUCTION	ON SUB-TOTAL ===>	\$278,880.00
		CONT	INGENCY - 10% ===>_	\$27,888.00
			UCTION TOTAL ===>	\$306,768.00

		SOF	T COSTS - 35% ===> _	\$107,368.80
			GRAND TOTAL ===>	\$414,136.80
				÷ · · · · · · · · · · · · · · · · · ·
			TOTAL LOTS ===>_	794
			COST PER LOT ===>	\$521.58
		,	0001 FLITEOT ===>	Ψ321.30

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ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
	Tra Vigne East In-Tract Parks, Landscaping, C	Open Space, and Recre	eational Improveme	ents

In-Tract Park Landscaping Improvements (Does Not Include Major Amenities)

	1 9 1		,	
1.	Landscape w/ Irrigation (Tra Vigne East - Park A Area)	286,133	\$6.50 SF	\$1,859,864.50
2.	Landscape w/ Irrigation (Tra Vigne East - Park B Area)	35,669	\$6.50 SF	\$231,848.50
3.	Landscape w/ Irrigation (Open Space)	225,530	\$0.50 SF	\$112,765.00

SUB-TOTAL ===> \$2,204,478.00

CONSTRUCTION SUB-TOTAL ===> \$2,204,478.00 CONTINGENCY - 10% ===> \$220,447.80 CONSTRUCTION TOTAL ===> \$2,424,925.80

> SOFT COSTS - 35% ===> \$848,724.03 GRAND TOTAL ===> \$3,273,649.83

TOTAL LOTS ===> <u>794</u> COST PER LOT ===> \$4,122.98

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Tra Vigne (West & East)
Engineer's Estimate of Probable Cost

	Tra Vigne East In-Tract Major Infrastructure Available for PFF Fee Credits and Reimbursements			
ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
	Tra Vigne East Oversized Backbone	Water System Imi	provements	
Overs	ized Water System for Backbone Roads			
1.	16" PVC - 12" PVC - Water	3,086	\$20.00 LF	\$61,720.00
2.	16" Butterfly Valve - 12" Butterfly Valve	8	\$1,000.00 EA	\$8,000.00
			<u> </u>	
			SUB-TOTAL ===>	\$69,720.00
			_	
		CONSTRUCTIO	N SUB-TOTAL ===>	\$69,720.00
		CONTIN	IGENCY - 10% ===> _	\$6,972.00
		CONSTRU	CTION TOTAL ===>	\$76,692.00
		SOFT	COSTS - 35% ===> _	\$26,842.20
			RAND TOTAL ===>	\$103,534.20
			TOTAL LOTS ===>_	794
		С	OST PER LOT ===>	\$130.40

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ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
	Tra Vigne Fast In-Tract Parks, Landscaping	Open Space, and Recr	eational Improveme	ents

In-Tract Park Landscaping Improvements (Does Not Include Major Amenities)

1.	Landscape w/ Irrigation (Tra Vigne East - Park A Area)	286,133	\$6.50 SF	\$1,859,864.50
2.	Landscape w/ Irrigation (Tra Vigne East - Park B Area)	35,669	\$6.50 SF	\$231,848.50
3.	Landscape w/ Irrigation (Open Space)	225,530	\$0.50 SF	\$112,765.00

SUB-TOTAL ===> \$2,204,478.00

CONSTRUCTION SUB-TOTAL ===> \$2,204,478.00 CONTINGENCY - 10% ===> \$220,447.80 CONSTRUCTION TOTAL ===> \$2,424,925.80

> SOFT COSTS - 35% ===> <u>\$848,724.03</u> GRAND TOTAL ===> \$3,273,649.83

TOTAL LOTS ===> <u>794</u>
COST PER LOT ===> \$4,122.98

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Tra Vigne West

	Engineer's Estimate of Probable Cost			
	Tra Vigne East In-Tract In	provements	•	
ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
	<u>Tra Vigne Eas</u>	<u>t</u>		
Α.	IN-TRACT IMPROVEMENTS			
1.	Total In-Tract Improvements per MCR	1	\$9,855,245.03 LS	\$9,855,245.03
			SUB-TOTAL ===>	\$9,855,245.03
			OUD TOTAL	40.055.045.00
			SUB-TOTAL ===>	\$9,855,245.03
	c		ON SUB-TOTAL ===>	
			INGENCY - 10% ===>	
		CONSTR	RUCTION TOTAL ===>	\$10,840,769.53
		SOI	FT COSTS - 35% ===>	\$3,794,269.34
			GRAND TOTAL ===>	
			TOTAL LOTS ===>	418
			COST PER LOT ===>	

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Tra Vigne West Engineer's Estimate of Probable Cost

Estimate General Notes

- This Engineer's Estimate of Probable Cost is based on the Tra Vigne Tentative Map prepared by NorthStar Engineering, Inc. titled "Tra Vigne Subdivision, Tentative Subdivision Map", dated June 30, 2017. Changes or increases may occur upon processing Entitlements, preparation of Civil Designs and/or Improvement Plan processing and approvals.
- 2. This Engineer's Estimate of Probable Cost is based upon preliminary information and is provided to assist the project proponent. Units costs are based on local knowledge and previous project bids. Units costs are subject to change. Three contractors, Teichert, Knife River, and George Reed provided current unit prices.
- 3. This Engineer's Estimate of Probable Cost does <u>not</u> include the following:
 - a. City plan check, final map, development fees or fees due at building or encroachment permit
 - b. Development Agreement fees
 - c. Fees for Lighting and Landscape, Assessment, Mello-Roos District or similar Districts
 - d. Land costs, right-of-way acquisition, easements, or rights-of-entry
 - e. Costs associated with toxic substance removal or over excavation of unsuitable soils
 - f. Costs associated with finding on-site human, archaeological, or tribal remains.
 - g. Provisions for Inflation
- 4. This Engineer's Estimate of Probable Cost includes preliminary Soft Costs (35%) which includes the following: (The percentages provided below are assumed and may vary depending on specific job requirements)
 - Engineering Plans and Studies (3%)
 - b. Geotechnical Studies, Services or Construction Support (2%)
 - c. Construction Management (4%)
 - d. Field Supervision (2%)
 - e. Special Inspection (1%)
 - f. Construction Staking (2%)
 - g. Legal Services (2%)
 - h. Architectural and Landscape Architectural Services (4%)
 - i. Joint Trench Plan or Consulting (1%)
 - j. Site / Field Indirect Costs (4%)
 - k. Overhead Charges including Developer's Internal Company Overhead (5%)
 - I. Bond Premiums (4%)
 - m. SWPPP Maintenance (1%)
- 5. This estimate assumes that the entire project site will be rough graded at one time. Earthwork is **NOT** delineated by potential phasing of the project.
- 6. Site Preparation and Grading does not include any stripping, shrinkage, swell, or trench spoils. Upon completion of the final grading design additional fees may occur for any import or export operations.
- 7. Unit Cost for Asphalt Concrete is assumed to be \$0.55 per square foot per inch thick. Unit Cost for Aggregate Base is assumed to be \$0.20 per square foot per inch thick. Pavement sections taken from "Preliminary Geotechnical Investigation" prepared by Lowney Associates, dated March 7, 2005, document number 2039-2.

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NorthStar Engineering: Group; Inc.

620 12th Street Modesto, CA 95354 Phone (209) 524-3525 Contingency ax (209) 52%-3526

Tra Vigne Engineer's Estimate of Probable Cost

Phase 1 - In-Tract

ITEM	DESCRIPTION	QUANTITY	UNIT COST	COST
Α.	SITE PREPARATION AND GRADING			
1.	Clearing, Grubbing, and Disposal		\$995.00 AC	\$0.00
1.	Street Improvements Clearing, Grubbing, and Disposal		\$15,000.00 LS	\$0.00
2.	Site Preparation, Clearing & Grubbing		\$10,000.00 LS	\$0.00
3.	Clearing Only		\$750.00 AC	\$0.00
3.	Orchard Removal		\$300.00 AC	\$0.00
4.	Remove Irrigation		\$12.00 LF	\$0.00
5.	Remove Irrigation Culvert		\$16.67 EA	\$0.00
6.	Remove and Dispose of Existing Pavement		\$3.00 SF	\$0.00
7.	Sawcut Existing Pavement		\$2.00 LF	\$0.00
8.	Remove Existing Curb		\$8.00 LF	_
9.	Remove Existing Concrete		\$1.00 SF	_
10.	Remove Existing Signs		\$50.00 EA	\$0.00
10.	Remove Existing Pavement		\$3.00 SF	\$0.00
11.	Remove Existing Gate		\$500.00 EA	\$0.00
12.	Remove Existing Fence		\$0.00 LF	\$0.00
13.	Remove Existing xx" Sanitary Sewer Line		\$0.00 LF	\$0.00
14.	Remove Existing xx" Water Line		\$0.00 LF	\$0.00
15.	Remove Existing xx" Storm Drainage Line		\$0.00 LF	\$0.00
16.	Remove Existing Manhole		\$0.00 EA	\$0.00
17.	Remove Existing Inlet		\$0.00 EA	\$0.00
18.	Remove Existing Tree		\$1,662.50 EA	\$0.00
19.	Remove Headwall		\$60.00 EA	\$0.00
19.	Remove Existing Headwalls and Culverts		\$25,000.00 LS	\$0.00
20.	Remove Existing Building		\$0.00 EA	\$0.00
21.	Remove Existing Home, Well, and Septic System		\$30,000.00 EA	\$0.00
22.	Remove Existing SSJID Concrete Channel		\$1.00 SF	\$0.00
23.	Remove Existing SSJID Concrete Channel Appurtenances		\$10,000.00 LS	\$0.00
24.	Earthwork		\$2.80 CY	\$0.00
25.	Relocation of Overhead Utilities Poles		\$15,000.00 EA	\$0.00
26.	Traffic Control		\$2,200.00 DAY	\$0.00
27.	Rough Grading - Street Right-of-Way		\$4.50 CY	\$0.00
27.	Rough Grading - Basin		\$3.00 CY	\$0.00
27.	Rough Grading - Streets and Super Pads		\$3.75 CY	\$0.00
28.	Import		\$0.00 CY	\$0.00
29.	Export		\$0.00 CY	\$0.00
30.	Lot Grading		\$440.00 LOT	\$0.00
31.	Street Fine Grading		\$0.40 SF	\$0.00
32.	Park / Basin Fine Grading		\$0.15 SF	\$0.00
33.	Drainage Swale		\$2.50 LF	\$0.00
34.	Mobilization - Major Infrastructure		\$30,000.00 LS	\$0.00
34.	Mobilization - In-Tract		\$10,000.00 LS	\$0.00
34.	Mobilization -		\$0.00 LS	\$0.00
35.	Demo Structures and Growth		\$40,000.00 LS	\$0.00

36.			
	Asbestos/Lead Survey	\$10,000.00 LS	\$0.00
37.	Asbestos/Lead Mitigation	\$15,000.00 LS	\$0.00
38.	Weed Abatement	\$1,500.00 AC	\$0.00
39.	12" over Ex. Of Fills and Recompact	\$3.50 CY	\$0.00
39.	Finish and Clean-UP	\$40,000.00 LS	\$0.00
-			<u> </u>
		SUB-TOTAL ===>	\$0.00
В.	EROSION CONTROL		
1.	Erosion Control Improvements	\$2,000.00 AC	\$0.00
2.	Temporary Concrete Washout	\$1,100.00 EA	\$0.00
3.	Temporary Inlet Protection - Gravel Bags	\$190.00 EA	\$0.00
4.	Temporary Inlet Protection - Silt Sack	\$0.00 EA	\$0.00
5.	Temporary Straw Wattle	\$1.63 LF	\$0.00
6.	Temporary Stabilized Construction Entrance	\$1,620.00 LS	\$0.00
7.	Temporary Silt Fence	\$0.00 LF	\$0.00
8.	Temporary Slope Protection	\$0.00 SF	\$0.00
9.	Hydroseeding	\$0.08 SF	\$0.00
10.	Street Sweeping	\$2,712.50 LS	\$0.00
11.	Hydro Mulch Pads	\$5,000.00 AC	\$0.00
12.	Maintenance	\$2,500.00 MON	\$0.00
13.	SWPPP Maintenance	\$7,500.00 LS	\$0.00
		SUB-TOTAL ===>	\$0.00
C.	SANITARY SEWER		
1.	30" PVC - Sanitary Sewer	\$0.00 LF	\$0.00
2.	27" PVC - Sanitary Sewer	\$0.00 LF	\$0.00
3.	24" PVC - Sanitary Sewer	\$126.67 LF	\$0.00
4.	24" PVC - 12" PVC - Sanitary Sewer	\$84.67 LF	\$0.00
5.	24" PVC - Sanitary Sewer (Trench and Repatch)	\$188.33 LF	
_	0.411 D) (O 4.011 D) (O 0 - 14 O (T 1 D 4 - 1)	-	\$0.00
6.	24" PVC - 12" PVC Sanitary Sewer (Trench and Repatch)	\$84.67 LF	\$0.00
7.	21" PVC - Sanitary Sewer	\$84.67 LF \$92.50 LF	\$0.00 \$0.00
7. 8.	21" PVC - Sanitary Sewer 18" PVC - Sanitary Sewer	\$84.67 LF \$92.50 LF \$79.00 LF	\$0.00 \$0.00 \$0.00
7. 8. 9.	21" PVC - Sanitary Sewer 18" PVC - Sanitary Sewer 15" PVC - Sanitary Sewer	\$84.67 LF \$92.50 LF \$79.00 LF \$55.00 LF	\$0.00 \$0.00 \$0.00 \$0.00
7. 8. 9. 10.	21" PVC - Sanitary Sewer 18" PVC - Sanitary Sewer 15" PVC - Sanitary Sewer 12" PVC - Sanitary Sewer	\$84.67 LF \$92.50 LF \$79.00 LF \$55.00 LF \$42.00 LF	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00
7. 8. 9. 10. 11.	21" PVC - Sanitary Sewer 18" PVC - Sanitary Sewer 15" PVC - Sanitary Sewer 12" PVC - Sanitary Sewer 12" PVC - Sanitary Sewer (Trench and Repatch)	\$84.67 LF \$92.50 LF \$79.00 LF \$55.00 LF \$42.00 LF \$103.66 LF	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
7. 8. 9. 10. 11.	21" PVC - Sanitary Sewer 18" PVC - Sanitary Sewer 15" PVC - Sanitary Sewer 12" PVC - Sanitary Sewer 12" PVC - Sanitary Sewer (Trench and Repatch) 10" PVC - Sanitary Sewer	\$84.67 LF \$92.50 LF \$79.00 LF \$55.00 LF \$42.00 LF \$103.66 LF \$38.50 LF	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
7. 8. 9. 10. 11. 12.	21" PVC - Sanitary Sewer 18" PVC - Sanitary Sewer 15" PVC - Sanitary Sewer 12" PVC - Sanitary Sewer 12" PVC - Sanitary Sewer (Trench and Repatch) 10" PVC - Sanitary Sewer 8" PVC - Sanitary Sewer	\$84.67 LF \$92.50 LF \$79.00 LF \$55.00 LF \$42.00 LF \$103.66 LF \$38.50 LF \$35.00 LF	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
7. 8. 9. 10. 11. 12. 13. 14.	21" PVC - Sanitary Sewer 18" PVC - Sanitary Sewer 15" PVC - Sanitary Sewer 12" PVC - Sanitary Sewer 12" PVC - Sanitary Sewer (Trench and Repatch) 10" PVC - Sanitary Sewer 8" PVC - Sanitary Sewer 8" PVC - Sanitary Sewer (Trench and Repatch)	\$84.67 LF \$92.50 LF \$79.00 LF \$55.00 LF \$42.00 LF \$103.66 LF \$38.50 LF \$35.00 LF \$100.00 LF	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
7. 8. 9. 10. 11. 12. 13. 14. 15.	21" PVC - Sanitary Sewer 18" PVC - Sanitary Sewer 15" PVC - Sanitary Sewer 12" PVC - Sanitary Sewer 12" PVC - Sanitary Sewer (Trench and Repatch) 10" PVC - Sanitary Sewer 8" PVC - Sanitary Sewer 8" PVC - Sanitary Sewer (Trench and Repatch) 8" DIP - Sanitary Sewer (Concrete Slurry and Backfill)	\$84.67 LF \$92.50 LF \$79.00 LF \$55.00 LF \$42.00 LF \$103.66 LF \$38.50 LF \$35.00 LF \$100.00 LF \$90.00 LF	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
7. 8. 9. 10. 11. 12. 13. 14. 15.	21" PVC - Sanitary Sewer 18" PVC - Sanitary Sewer 15" PVC - Sanitary Sewer 12" PVC - Sanitary Sewer 10" PVC - Sanitary Sewer (Trench and Repatch) 10" PVC - Sanitary Sewer 8" PVC - Sanitary Sewer 8" PVC - Sanitary Sewer (Trench and Repatch) 8" DIP - Sanitary Sewer (Concrete Slurry and Backfill) 6" PVC - Sanitary Sewer	\$84.67 LF \$92.50 LF \$79.00 LF \$55.00 LF \$42.00 LF \$103.66 LF \$38.50 LF \$35.00 LF \$100.00 LF \$90.00 LF	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
7. 8. 9. 10. 11. 12. 13. 14. 15. 16.	21" PVC - Sanitary Sewer 18" PVC - Sanitary Sewer 15" PVC - Sanitary Sewer 12" PVC - Sanitary Sewer (Trench and Repatch) 10" PVC - Sanitary Sewer 8" PVC - Sanitary Sewer 8" PVC - Sanitary Sewer (Trench and Repatch) 8" DIP - Sanitary Sewer (Concrete Slurry and Backfill) 6" PVC - Sanitary Sewer 4" PVC - Sanitary Sewer	\$84.67 LF \$92.50 LF \$79.00 LF \$55.00 LF \$42.00 LF \$103.66 LF \$38.50 LF \$35.00 LF \$100.00 LF \$90.00 LF \$26.75 LF \$23.00 LF	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17.	21" PVC - Sanitary Sewer 18" PVC - Sanitary Sewer 15" PVC - Sanitary Sewer 12" PVC - Sanitary Sewer 12" PVC - Sanitary Sewer (Trench and Repatch) 10" PVC - Sanitary Sewer 8" PVC - Sanitary Sewer 8" PVC - Sanitary Sewer (Trench and Repatch) 8" DIP - Sanitary Sewer (Concrete Slurry and Backfill) 6" PVC - Sanitary Sewer 4" PVC - Sanitary Sewer 12" PVC - Sanitary Sewer	\$84.67 LF \$92.50 LF \$79.00 LF \$55.00 LF \$42.00 LF \$103.66 LF \$38.50 LF \$35.00 LF \$100.00 LF \$90.00 LF \$26.75 LF \$23.00 LF	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18.	21" PVC - Sanitary Sewer 18" PVC - Sanitary Sewer 15" PVC - Sanitary Sewer 12" PVC - Sanitary Sewer 10" PVC - Sanitary Sewer (Trench and Repatch) 10" PVC - Sanitary Sewer 8" PVC - Sanitary Sewer (Trench and Repatch) 8" DIP - Sanitary Sewer (Concrete Slurry and Backfill) 6" PVC - Sanitary Sewer 4" PVC - Sanitary Sewer 12" PVC - Sanitary Sewer 8" PVC - Sanitary Sewer-SDR26 (Trench and Repatch) 8" PVC - Sanitary Sewer-SDR26 (Trench and Repatch)	\$84.67 LF \$92.50 LF \$79.00 LF \$55.00 LF \$42.00 LF \$103.66 LF \$38.50 LF \$35.00 LF \$100.00 LF \$90.00 LF \$26.75 LF \$23.00 LF \$172.00 EA	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19.	21" PVC - Sanitary Sewer 18" PVC - Sanitary Sewer 15" PVC - Sanitary Sewer 12" PVC - Sanitary Sewer 10" PVC - Sanitary Sewer (Trench and Repatch) 10" PVC - Sanitary Sewer 8" PVC - Sanitary Sewer 8" PVC - Sanitary Sewer (Trench and Repatch) 8" DIP - Sanitary Sewer (Concrete Slurry and Backfill) 6" PVC - Sanitary Sewer 4" PVC - Sanitary Sewer 12" PVC - Sanitary Sewer 12" PVC - Sanitary Sewer-SDR26 (Trench and Repatch 8" PVC - Sanitary Sewer-SDR26 (Trench and Repatch 6" PVC - Sanitary Sewer-SDR26 (Trench and Repatch	\$84.67 LF \$92.50 LF \$79.00 LF \$55.00 LF \$42.00 LF \$103.66 LF \$38.50 LF \$35.00 LF \$100.00 LF \$100.00 LF \$26.75 LF \$23.00 LF \$172.00 EA \$153.50 EA	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21.	21" PVC - Sanitary Sewer 18" PVC - Sanitary Sewer 15" PVC - Sanitary Sewer 12" PVC - Sanitary Sewer 10" PVC - Sanitary Sewer (Trench and Repatch) 10" PVC - Sanitary Sewer 8" PVC - Sanitary Sewer (Trench and Repatch) 8" PVC - Sanitary Sewer (Trench and Repatch) 8" DIP - Sanitary Sewer (Concrete Slurry and Backfill) 6" PVC - Sanitary Sewer 4" PVC - Sanitary Sewer 12" PVC - Sanitary Sewer-SDR26 (Trench and Repatch 8" PVC - Sanitary Sewer-SDR26 (Trench and Repatch 6" PVC - Sanitary Sewer-SDR26 (Trench and Repatch 48" - Sanitary Sewer-SDR26 (Trench and Repatch	\$84.67 LF \$92.50 LF \$79.00 LF \$55.00 LF \$42.00 LF \$103.66 LF \$38.50 LF \$35.00 LF \$100.00 LF \$100.00 LF \$26.75 LF \$23.00 LF \$172.00 EA \$153.50 EA \$71.50 EA	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20.	21" PVC - Sanitary Sewer 18" PVC - Sanitary Sewer 15" PVC - Sanitary Sewer 12" PVC - Sanitary Sewer (Trench and Repatch) 10" PVC - Sanitary Sewer 8" PVC - Sanitary Sewer (Trench and Repatch) 8" PVC - Sanitary Sewer (Trench and Repatch) 8" DIP - Sanitary Sewer (Concrete Slurry and Backfill) 6" PVC - Sanitary Sewer 4" PVC - Sanitary Sewer 12" PVC - Sanitary Sewer 12" PVC - Sanitary Sewer-SDR26 (Trench and Repatch 8" PVC - Sanitary Sewer-SDR26 (Trench and Repatch 6" PVC - Sanitary Sewer-SDR26 (Trench and Repatch 48" - Sanitary Sewer Manhole	\$84.67 LF \$92.50 LF \$79.00 LF \$55.00 LF \$42.00 LF \$103.66 LF \$38.50 LF \$33.00 LF \$100.00 LF \$90.00 LF \$26.75 LF \$23.00 LF \$172.00 EA \$153.50 EA \$71.50 EA \$2,800.00 EA	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22.	21" PVC - Sanitary Sewer 18" PVC - Sanitary Sewer 15" PVC - Sanitary Sewer 12" PVC - Sanitary Sewer 10" PVC - Sanitary Sewer (Trench and Repatch) 10" PVC - Sanitary Sewer 8" PVC - Sanitary Sewer (Trench and Repatch) 8" DIP - Sanitary Sewer (Concrete Slurry and Backfill) 6" PVC - Sanitary Sewer 4" PVC - Sanitary Sewer 12" PVC - Sanitary Sewer 12" PVC - Sanitary Sewer-SDR26 (Trench and Repatch 8" PVC - Sanitary Sewer-SDR26 (Trench and Repatch 6" PVC - Sanitary Sewer-SDR26 (Trench and Repatch 48" - Sanitary Sewer Manhole 60" - 48" Sanitary Sewer Manhole	\$84.67 LF \$92.50 LF \$79.00 LF \$55.00 LF \$42.00 LF \$103.66 LF \$38.50 LF \$35.00 LF \$100.00 LF \$100.00 LF \$26.75 LF \$23.00 LF \$172.00 EA \$153.50 EA \$71.50 EA \$2,800.00 EA \$3,200.00 EA	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24.	21" PVC - Sanitary Sewer 18" PVC - Sanitary Sewer 15" PVC - Sanitary Sewer 12" PVC - Sanitary Sewer 10" PVC - Sanitary Sewer (Trench and Repatch) 10" PVC - Sanitary Sewer 8" PVC - Sanitary Sewer (Trench and Repatch) 8" DIP - Sanitary Sewer (Concrete Slurry and Backfill) 6" PVC - Sanitary Sewer 4" PVC - Sanitary Sewer 12" PVC - Sanitary Sewer 12" PVC - Sanitary Sewer-SDR26 (Trench and Repatch 8" PVC - Sanitary Sewer-SDR26 (Trench and Repatch 6" PVC - Sanitary Sewer-SDR26 (Trench and Repatch 6" PVC - Sanitary Sewer-SDR26 (Trench and Repatch 6" PVC - Sanitary Sewer-SDR26 (Trench and Repatch 48" - Sanitary Sewer Manhole 60" - 48" Sanitary Sewer Manhole 72" - Sanitary Sewer Manhole	\$84.67 LF \$92.50 LF \$79.00 LF \$55.00 LF \$42.00 LF \$103.66 LF \$38.50 LF \$35.00 LF \$100.00 LF \$100.00 LF \$26.75 LF \$23.00 LF \$172.00 EA \$153.50 EA \$71.50 EA \$2,800.00 EA \$3,200.00 EA	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25.	21" PVC - Sanitary Sewer 18" PVC - Sanitary Sewer 15" PVC - Sanitary Sewer 12" PVC - Sanitary Sewer (Trench and Repatch) 10" PVC - Sanitary Sewer 8" PVC - Sanitary Sewer (Trench and Repatch) 8" PVC - Sanitary Sewer (Trench and Repatch) 8" DIP - Sanitary Sewer (Concrete Slurry and Backfill) 6" PVC - Sanitary Sewer 4" PVC - Sanitary Sewer 12" PVC - Sanitary Sewer 12" PVC - Sanitary Sewer-SDR26 (Trench and Repatch 8" PVC - Sanitary Sewer-SDR26 (Trench and Repatch 6" PVC - Sanitary Sewer-SDR26 (Trench and Repatch 6" PVC - Sanitary Sewer-SDR26 (Trench and Repatch 6" PVC - Sanitary Sewer Manhole 60" - Sanitary Sewer Manhole 60" - Sanitary Sewer Manhole 50" - Sanitary Sewer Manhole 5anitary Sewer Cleanout	\$84.67 LF \$92.50 LF \$79.00 LF \$55.00 LF \$42.00 LF \$103.66 LF \$38.50 LF \$35.00 LF \$100.00 LF \$90.00 LF \$26.75 LF \$23.00 LF \$172.00 EA \$1750 EA \$71.50 EA \$2,800.00 EA \$6,000.00 EA \$3,200.00 EA \$3,200.00 EA	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25.	21" PVC - Sanitary Sewer 18" PVC - Sanitary Sewer 12" PVC - Sanitary Sewer 12" PVC - Sanitary Sewer (Trench and Repatch) 10" PVC - Sanitary Sewer 8" PVC - Sanitary Sewer (Trench and Repatch) 8" PVC - Sanitary Sewer (Trench and Repatch) 8" DIP - Sanitary Sewer (Concrete Slurry and Backfill) 6" PVC - Sanitary Sewer 4" PVC - Sanitary Sewer 12" PVC - Sanitary Sewer-SDR26 (Trench and Repatch 8" PVC - Sanitary Sewer-SDR26 (Trench and Repatch 6" PVC - Sanitary Sewer-SDR26 (Trench and Repatch 6" PVC - Sanitary Sewer-SDR26 (Trench and Repatch 6" PVC - Sanitary Sewer Manhole 60" - Sanitary Sewer Manhole 60" - 48" Sanitary Sewer Manhole 72" - Sanitary Sewer Manhole Sanitary Sewer Cleanout Sanitary Sewer Lamphole	\$84.67 LF \$92.50 LF \$79.00 LF \$55.00 LF \$42.00 LF \$103.66 LF \$38.50 LF \$35.00 LF \$100.00 LF \$100.00 LF \$26.75 LF \$23.00 LF \$172.00 EA \$172.00 EA \$153.50 EA \$71.50 EA \$2,800.00 EA \$3,200.00 EA \$3,200.00 EA \$3,200.00 EA	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 20. 21. 22. 23. 24. 25. 26. 27.	21" PVC - Sanitary Sewer 18" PVC - Sanitary Sewer 12" PVC - Sanitary Sewer 12" PVC - Sanitary Sewer (Trench and Repatch) 10" PVC - Sanitary Sewer 8" PVC - Sanitary Sewer 8" PVC - Sanitary Sewer (Trench and Repatch) 8" DIP - Sanitary Sewer (Concrete Slurry and Backfill) 6" PVC - Sanitary Sewer 4" PVC - Sanitary Sewer 12" PVC - Sanitary Sewer 12" PVC - Sanitary Sewer-SDR26 (Trench and Repatch 8" PVC - Sanitary Sewer-SDR26 (Trench and Repatch 6" PVC - Sanitary Sewer-SDR26 (Trench and Repatch 6" PVC - Sanitary Sewer-SDR26 (Trench and Repatch 6" PVC - Sanitary Sewer Manhole 60" - Sanitary Sewer Manhole 60" - Sanitary Sewer Manhole 50" - Sanitary Sewer Manhole 52" - Sanitary Sewer Manhole Sanitary Sewer Cleanout Sanitary Sewer Lamphole Lateral Service Connection	\$84.67 LF \$92.50 LF \$79.00 LF \$55.00 LF \$42.00 LF \$103.66 LF \$38.50 LF \$38.50 LF \$390.00 LF \$90.00 LF \$26.75 LF \$23.00 LF \$172.00 EA \$172.00 EA \$153.50 EA \$71.50 EA \$2,800.00 EA \$6,000.00 EA \$3,200.00 EA \$3,200.00 EA \$0.00 EA	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25.	21" PVC - Sanitary Sewer 18" PVC - Sanitary Sewer 12" PVC - Sanitary Sewer 12" PVC - Sanitary Sewer (Trench and Repatch) 10" PVC - Sanitary Sewer 8" PVC - Sanitary Sewer (Trench and Repatch) 8" PVC - Sanitary Sewer (Trench and Repatch) 8" DIP - Sanitary Sewer (Concrete Slurry and Backfill) 6" PVC - Sanitary Sewer 4" PVC - Sanitary Sewer 12" PVC - Sanitary Sewer-SDR26 (Trench and Repatch 8" PVC - Sanitary Sewer-SDR26 (Trench and Repatch 6" PVC - Sanitary Sewer-SDR26 (Trench and Repatch 6" PVC - Sanitary Sewer-SDR26 (Trench and Repatch 6" PVC - Sanitary Sewer Manhole 60" - Sanitary Sewer Manhole 60" - 48" Sanitary Sewer Manhole 72" - Sanitary Sewer Manhole Sanitary Sewer Cleanout Sanitary Sewer Lamphole	\$84.67 LF \$92.50 LF \$79.00 LF \$55.00 LF \$42.00 LF \$103.66 LF \$38.50 LF \$35.00 LF \$100.00 LF \$100.00 LF \$26.75 LF \$23.00 LF \$172.00 EA \$172.00 EA \$153.50 EA \$71.50 EA \$2,800.00 EA \$3,200.00 EA \$3,200.00 EA \$3,200.00 EA	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00

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30.	Remove Plug and Connect to Existing Sewer Line	\$0.00 EA	\$0.00
	Connect to Existing Sewer Manhole	\$4,500.00 EA	\$0.00
	Sanitary Sewer System Dewatering	\$0.00 EA	\$0.00
	Sanitary Sewer Lift Station Complete	\$262,500.00 LS	\$0.00
	Railroad Crossing (24" casing)	\$600.00 LF	\$0.00
	24" West Lane Crossing	\$25,000.00 LS	\$0.00
36.	24" - 12" West Lane Crossing	\$12,500.00 LS	\$0.00
37.	24" Sewer Extension Restoration	\$1,000.00 AC	\$0.00
		SUB-TOTAL ===>	\$0.00
	STORM		
	60" RCP - Storm Drainage	\$150.00 LF	\$0.00
	54" RCP - Storm Drainage	\$135.00 LF	\$0.00
	48" RCP - Storm Drainage	\$120.00 LF	\$0.00
	42" RCP - Storm Drainage	\$105.00 LF	\$0.00
	36" RCP - Storm Drainage	\$90.00 LF	\$0.00
	30" RCP - Storm Drainage	\$75.00 LF	\$0.00
	24" RCP - Storm Drainage	\$60.00 LF	\$0.00
	24" RCP (CL3) - Storm Drainage	\$0.00 LF	\$0.00
	21" RCP - Storm Drainage	\$52.50 LF	\$0.00
9.	18" RCP - Storm Drainage	\$45.00 LF	\$0.00
10.	18" RCP - Storm Drainage (Trench and Repatch)	\$87.50 LF	\$0.00
11.	15" RCP - Storm Drainage	\$37.50 LF	\$0.00
12.	15" RCP - Storm Drainage (Trench and Repatch)	\$80.00 LF	
	12" RCP - Storm Drainage	\$30.00 LF	\$0.00
	10" RCP - Storm Drainage	\$29.33 LF	\$0.00
	60" HDPE - Storm Drainage	\$0.00 LF	\$0.00
	54" HDPE - Storm Drainage	\$0.00 LF	\$0.00
	48" HDPE - Storm Drainage	\$0.00 LF	\$0.00
	36" HDPE - Storm Drainage	\$0.00 LF	\$0.00
	30" HDPE - Storm Drainage	\$0.00 LF	\$0.00
	24" HDPE - Storm Drainage	\$0.00 LF	\$0.00
	18" HDPE - Storm Drainage	\$0.00 LF	\$0.00
	15" HDPE - Storm Drainage	\$0.00 LF	\$0.00
23.	12" HDPE - Storm Drainage	\$0.00 LF	\$0.00
	10" HDPE - Storm Drainage	\$0.00 LF	\$0.00
	8" HDPE - Storm Drainage	\$0.00 LF	\$0.00
	6" HDPE - Storm Drainage	\$0.00 LF	\$0.00
	4" HDPE - Storm Drainage	\$0.00 LF	\$0.00
	60" PVC - Storm Drainage	\$0.00 LF	\$0.00
_	54" PVC - Storm Drainage	\$0.00 LF	\$0.00
	48" PVC - Storm Drainage	\$0.00 LF	\$0.00
	36" PVC - Storm Drainage	\$0.00 LF	\$0.00
	30" PVC - Storm Drainage	\$0.00 LF	\$0.00
	24" PVC - Storm Drainage	\$49.25 LF	\$0.00
34.	18" PVC - Storm Drainage	\$48.42 LF	\$0.00
	15" PVC - Storm Drainage	\$0.00 LF	\$0.00
	12" PVC - Storm Drainage	\$37.00 LF	\$0.00
	12" PVC - Storm Drainage (Trench and Repatch)	\$90.00 LF	\$0.00
	12" PVC - Storm Drainage (Trench and Replace Landscaping)	\$40.00 LF	\$0.00
	10" PVC - Storm Drainage	\$0.00 LF	\$0.00
	8" PVC - Storm Drainage	\$0.00 LF	\$0.00
	6" PVC - Storm Drainage	\$0.00 LF	\$0.00
42.	4" PVC - Storm Drainage	\$0.00 LF	\$0.00

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43.	18" Diameter Area Drain	\$1,866.67 EA	\$0.00
44.	24" Diameter Area Drain (installed on 12" pipe)	\$1,480.00 EA	\$0.00
45.	24" Diameter Area Drain	\$2,150.00 EA	\$0.00
46.	12" Force Main - Storm Drainage	\$45.00 LF	\$0.00
47.	10" Force Main - Storm Drainage	\$107.00 LF	\$0.00
48.	12" Perforated Pipe	\$28.33 SF	\$0.00
49.	Curb Inlet - Type GO	\$2,550.00 EA	\$0.00
50.	Curb Inlet - County Standard	\$2,550.00 EA	\$0.00
51.	Curb Inlet - City Standard	\$2,550.00 EA	\$0.00
52.	Curb Inlet - Manteca Vertical	\$2,000.00 EA	\$0.00
53.	Curb Inlet - Manteca Drive Over	\$2,000.00 EA	\$0.00
54.	Curb Inlet - Stockton Vertical	\$3,000.00 EA	\$0.00
55.	Curb Inlet - Stockton Drive Over	\$2,850.00 EA	\$0.00
56.	Landscape Drain	\$1,700.00 EA	\$0.00
57.	ACO Trench Drain	\$0.00 LF	\$0.00
58.	Bubble-up Structure with Rip Rap	\$5,500.00 LF	\$0.00
59.	48" - Storm Drainage Manhole	\$3,500.00 EA	\$0.00
60.	60" - Storm Drainage Manhole	\$5,500.00 EA	\$0.00
61.	72" - Storm Drainage Manhole	\$7,500.00 EA	\$0.00
62.	96" - Storm Drainage Manhole	\$9,500.00 EA	\$0.00
63.	Saddle - Storm Drainage Manhole	\$4,166.67 EA	\$0.00
64.	Stub and Plug Proposed Storm Drainage Line	\$1,500.00 EA	\$0.00
65.	Remove Plug and Connect to Existing Storm Line	\$1,500.00 EA	\$0.00
66.	Connect to Existing Storm Manhole	\$3,000.00 EA	\$0.00
67.	Basin Nuisance Flow Swale	\$0.00 LF	\$0.00
68.	Storm Drainage Pump Station Complete	\$150,000.00 EA	\$0.00
69.	Storm Drainage System Dewatering	\$0.00 LS	\$0.00
70.	Railroad Crossing (30" Casing)	\$675.00 LF	\$0.00
71.	Storm Drain Flow Control Structure (Complete)	\$20,000.00 LS	\$0.00
72.	Storm Water Treatment Control Device	\$75,000.00 LS	\$0.00
73.	Kristar Perk-Filter	\$108,200.00 EA	\$0.00
74.	Discharge Structure	\$12,900.00 LS	\$0.00
75.	Headwall Structure	\$6,400.00 EA	\$0.00
76.	Neoprent Check Valve	\$7,200.00 EA	\$0.00
77.	Drainage Rock	\$31.50 LF	\$0.00
78.	Filter Sand	\$30.00 LF	\$0.00
79.	Storm Drainage Treatment Filter	\$25,000.00 EA	\$0.00
80.	Storm Drainage Outfall Control Valve	\$10,000.00 EA	\$0.00
81.	Storm Drainage Basin Non-porous Liner	\$0.20 SF	\$0.00
81.	Basin Pump Station, Treatment Equipment, & Basin Piping	\$1,000,000.00 LS	\$0.00
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		SUB-TOTAL ===>	\$0.00
			
E.	WATER SYSTEM		
1.	30" Steel - Water Main	\$225.00 LF	\$0.00
1.	30" Steel - 12" PVC - Water Main	\$165.00 LF	\$0.00
1.	24" PVC - Water	\$120.00 LF	\$0.00
1.	24" PVC - 12" PVC - Water	\$60.00 LF	\$0.00
1.	24" PVC - Water (Trench and Repatch)	\$170.00 LF	\$0.00
1.	24" PVC - 12" PVC Water (Trench and Repatch)	\$60.00 LF	\$0.00
2.	18" PVC - Water	\$90.00 LF	\$0.00
2.	16" PVC - Water	\$80.00 LF	\$0.00
3.	12" PVC - Water	\$60.00 LF	\$0.00
4.	12" PVC - Water (Trench and Repatch)	\$110.00 LF	\$0.00
5.	8" PVC - Water	\$25.00 LF	\$0.00
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6.	8" PVC - Water (Trench and Repatch)	\$85.00 LF	\$0.00
7.	6" PVC - Water	\$29.55 LF	\$0.00
8.	4" PVC - Water	\$24.75 LF	\$0.00
9.	2" PVC - Water	\$0.00 LF	\$0.00
10.	1.5" PVC - Water	\$12.00 LF	\$0.00
11.	24" Butterfly Valve	\$6,000.00 EA	\$0.00
12.	18" Butterfly Valve	\$4,500.00 EA	\$0.00
12.	16" Butterfly Valve	\$4,000.00 EA	\$0.00
13.	12" Butterfly Valve	\$3,000.00 EA	\$0.00
14.	8" Gate Valve	\$2,000.00 EA	\$0.00
15.	6" Gate Valve	\$975.00 EA	\$0.00
16.	4" Gate Valve	\$820.00 EA	\$0.00
17.	2" Ball Valve	\$0.00 EA	\$0.00
18.	4" Double Detector Check Valve	\$5,225.00 EA	\$0.00
19.	6" Single Detector Check Valve w/FDC	\$3,525.00 EA	\$0.00
20.	4" Backflow Preventer	\$2,950.00 EA	\$0.00
21.	Hydrant Bury, Valve, and Tee	\$5,200.00 EA	\$0.00
22.	1" House Service (Meter Not Included)	\$850.00 EA	\$0.00
23.	House Service (Meter Not Included) (Trench - Repatch)	\$0.00 EA	\$0.00
24.	Landscape Service (Meter Not Included)	\$2,300.00 EA	\$0.00
25.	Landscape Service (Meter Not Included) (Trench - Repatch)	\$0.00 EA	\$0.00
26.	Remove Plug and Connect to Existing Water Line	\$3,500.00 EA	\$0.00
27.	Hot Tap into Existing Water Line	\$0.00 EA	\$0.00
28.	Cut-in Tee to Existing Water Line	\$500.00 EA	\$0.00
29.	Air Release Valve	\$0.00 EA	\$0.00
30.	Blow-off Valve	\$4,000.00 EA	\$0.00
31.	Water Well Complete	\$0.00 LS	\$0.00
32.	1" Water Service Meter Connection to Public System	\$825.00 EA	\$0.00
33.	3" Water Service Meter Connection to Public System	\$10,650.00 EA	\$0.00
34.	Stub and Plug Proposed Water Line	\$1,800.00 EA	\$0.00
35.	Water Sampling Station	\$5,000.00 EA	\$0.00
35.	12" Water Connection	\$6,000.00 EA	\$0.00
35.	16" Water Connection	\$8,000.00 EA	\$0.00
35.	18" Water Connection	\$9,000.00 EA	\$0.00
35.	24" Water Connection	\$12,000.00 EA	\$0.00
35.	24" - 12" Water Connection	\$6,000.00 EA	\$0.00
35.	Water Connection	\$7,500.00 EA	\$0.00
35.	Boring Pit Construction (incl. Shoring) - North Side	\$45,000.00 LS	\$0.00
35.	Boring Pit Construction (incl.Shoring) - South Side	\$35,000.00 LS	\$0.00
35.	27" HDPE Horizontal Drill	\$500.00 LF	\$0.00
35.	27" HDPE - 18" HDPE Horizontal Drill	\$150.00 LF	\$0.00
35.	18" HDPE Horizontal Drill	\$350.00 LF	\$0.00
35.	24" PVC - Water (Fittings for Connections)	\$150.00 LF	\$0.00
35.	24" PVC - 12" PVC - Water (Fittings for Connections)	\$75.00 LF	\$0.00
35.	12" PVC - Water (Fittings for Connections)	\$75.00 LF	\$0.00
35.	Dewatering	\$20,000.00 LS	\$0.00
35.	Connection to Existing 24" Main in West Lane	\$25,000.00 LS	\$0.00
35.	Street Restoration	\$45.00 LF	\$0.00

 2.
 10" PVC - Non-Potable Water
 \$0.00 LF
 \$0.00

 3.
 8" PVC - Non-Potable Water
 \$124.00 LF
 \$0.00

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NON-POTABLE WATER SYSTEM

12" PVC - Non-Potable Water

F.

1.

\$0.00

\$0.00 LF

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4.	6" PVC - Non-Potable Water	\$0.00 LF	\$0.00
5.	12" Butterfly Valve Non-Potable	\$0.00 EA	\$0.00
6.	10" Gate Valve Non-Potable	\$0.00 EA	\$0.00
7.	8" Gate Valve Non-Potable	\$1,466.67 EA	\$0.00
8.	6" Gate Valve Non-Potable	\$0.00 EA	\$0.00
9.	4" Gate Valve Non-Potable	\$0.00 EA	\$0.00
10.	Landscape Service (Meter Not Included)	\$2,500.00 EA	\$0.00
11.	Landscape Service (Meter Not Included) (Trench - Repatch)	\$0.00 EA	\$0.00
12.	Landscape Irrigation Well	\$0.00 EA	\$0.00
		SUB-TOTAL ===>	\$0.00
<u>F.</u>	IRRIGATION		
1.	48" RGRCP	\$140.00 LF	\$0.00
2.	42" RGRCP	\$115.00 LF	\$0.00
3.	36" RGRCP	\$87.50 EA	\$0.00
4.	30" RGRCP	\$0.00 EA	\$0.00
5.	24" RGRCP	\$86.00 EA	\$0.00
6.	Irrigation Valves	\$7,000.00 SF	\$0.00
7.	Irrigation Transition Structure	\$26,666.67 EA	\$0.00
8.	48" - Irrigation Manhole	\$17,000.00 EA	\$0.00
9.	2" Irrigation Service	\$2,500.00 LS	\$0.00
10.	1.5" Irrigation Meter	\$500.00 EA	\$0.00
		SUB-TOTAL ===>	\$0.00
Н.	STREETS		
1.	6" Vertical Curb	\$18.58 LF	\$0.00
2.	6" Vertical Curb and Gutter	\$19.50 LF	\$0.00
3.	4" Drive Over Curb and Gutter	\$14.90 LF	\$0.00
4.	4" Drive Over Curb and Gutter (Roundabout)	\$17.33 LF	\$0.00
5.	4.5" Special Vertical Curb and Gutter	\$20.00 LF	\$0.00
6.	4.5" Drive Over Curb and Gutter	\$14.75 LF	
7.	8" Median Curb		\$0.00
		\$18.60 LF	\$0.00
8.	4' Valley Gutter	\$18.60 LF \$10.00 SF	\$0.00 \$0.00
9.	4' Valley Gutter 3" Valley Gutter	\$18.60 LF \$10.00 SF \$0.00 SF	\$0.00 \$0.00 \$0.00
9. 10.	4' Valley Gutter 3" Valley Gutter 4" PCC Concrete Walk (Includes Ramps and Returns)	\$18.60 LF \$10.00 SF \$0.00 SF \$4.00 SF	\$0.00 \$0.00 \$0.00 \$0.00
9. 10. 10.	4' Valley Gutter 3" Valley Gutter 4" PCC Concrete Walk (Includes Ramps and Returns) 5" PCC Concrete Walk (Includes Ramps and Returns)	\$18.60 LF \$10.00 SF \$0.00 SF \$4.00 SF \$5.00 SF	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00
9. 10. 10. 11.	4' Valley Gutter 3" Valley Gutter 4" PCC Concrete Walk (Includes Ramps and Returns) 5" PCC Concrete Walk (Includes Ramps and Returns) 6" PCC Concrete Driveway	\$18.60 LF \$10.00 SF \$0.00 SF \$4.00 SF \$5.00 SF \$6.00 SF	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
9. 10. 10. 11. 12.	4' Valley Gutter 3" Valley Gutter 4" PCC Concrete Walk (Includes Ramps and Returns) 5" PCC Concrete Walk (Includes Ramps and Returns) 6" PCC Concrete Driveway 8" PCC #4 Rebar 12"OC Truck Apron	\$18.60 LF \$10.00 SF \$0.00 SF \$4.00 SF \$5.00 SF \$6.00 SF \$10.69 SF	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
9. 10. 10. 11. 12. 13.	4' Valley Gutter 3" Valley Gutter 4" PCC Concrete Walk (Includes Ramps and Returns) 5" PCC Concrete Walk (Includes Ramps and Returns) 6" PCC Concrete Driveway 8" PCC #4 Rebar 12"OC Truck Apron 8" PCC #4 Rebar 12"OC Bus Stop	\$18.60 LF \$10.00 SF \$0.00 SF \$4.00 SF \$5.00 SF \$6.00 SF \$10.69 SF \$11.00 SF	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
9. 10. 10. 11. 12. 13. 14.	4' Valley Gutter 3" Valley Gutter 4" PCC Concrete Walk (Includes Ramps and Returns) 5" PCC Concrete Walk (Includes Ramps and Returns) 6" PCC Concrete Driveway 8" PCC #4 Rebar 12"OC Truck Apron 8" PCC #4 Rebar 12"OC Bus Stop Mow Strip	\$18.60 LF \$10.00 SF \$0.00 SF \$4.00 SF \$5.00 SF \$6.00 SF \$10.69 SF \$11.00 SF \$0.00 SF	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
9. 10. 10. 11. 12. 13. 14. 15.	4' Valley Gutter 3" Valley Gutter 4" PCC Concrete Walk (Includes Ramps and Returns) 5" PCC Concrete Walk (Includes Ramps and Returns) 6" PCC Concrete Driveway 8" PCC #4 Rebar 12"OC Truck Apron 8" PCC #4 Rebar 12"OC Bus Stop Mow Strip ADA Ramp (Labor and Truncated Domes Only)	\$18.60 LF \$10.00 SF \$0.00 SF \$4.00 SF \$5.00 SF \$6.00 SF \$10.69 SF \$11.00 SF \$0.00 SF	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
9. 10. 11. 12. 13. 14. 15.	4' Valley Gutter 3" Valley Gutter 4" PCC Concrete Walk (Includes Ramps and Returns) 5" PCC Concrete Walk (Includes Ramps and Returns) 6" PCC Concrete Driveway 8" PCC #4 Rebar 12"OC Truck Apron 8" PCC #4 Rebar 12"OC Bus Stop Mow Strip ADA Ramp (Labor and Truncated Domes Only) Mid-Block ADA Ramp (Labor and Truncated Domes Only)	\$18.60 LF \$10.00 SF \$0.00 SF \$4.00 SF \$5.00 SF \$6.00 SF \$10.69 SF \$11.00 SF \$0.00 SF \$1,900.00 EA	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
9. 10. 11. 12. 13. 14. 15. 16.	4' Valley Gutter 3" Valley Gutter 4" PCC Concrete Walk (Includes Ramps and Returns) 5" PCC Concrete Walk (Includes Ramps and Returns) 6" PCC Concrete Driveway 8" PCC #4 Rebar 12"OC Truck Apron 8" PCC #4 Rebar 12"OC Bus Stop Mow Strip ADA Ramp (Labor and Truncated Domes Only) Mid-Block ADA Ramp (Labor and Truncated Domes Only) Raised Crosswalk	\$18.60 LF \$10.00 SF \$0.00 SF \$4.00 SF \$5.00 SF \$6.00 SF \$10.69 SF \$11.00 SF \$0.00 SF \$1,900.00 EA \$550.00 EA	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
9. 10. 11. 12. 13. 14. 15. 16. 17.	4' Valley Gutter 3" Valley Gutter 4" PCC Concrete Walk (Includes Ramps and Returns) 5" PCC Concrete Walk (Includes Ramps and Returns) 6" PCC Concrete Driveway 8" PCC #4 Rebar 12"OC Truck Apron 8" PCC #4 Rebar 12"OC Bus Stop Mow Strip ADA Ramp (Labor and Truncated Domes Only) Mid-Block ADA Ramp (Labor and Truncated Domes Only) Raised Crosswalk 2" AC Grind and Overlay	\$18.60 LF \$10.00 SF \$0.00 SF \$4.00 SF \$5.00 SF \$6.00 SF \$10.69 SF \$11.00 SF \$0.00 SF \$1,900.00 EA \$550.00 EA \$2,750.00 EA	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
9. 10. 11. 12. 13. 14. 15. 16. 17. 17.	4' Valley Gutter 3" Valley Gutter 4" PCC Concrete Walk (Includes Ramps and Returns) 5" PCC Concrete Walk (Includes Ramps and Returns) 6" PCC Concrete Driveway 8" PCC #4 Rebar 12"OC Truck Apron 8" PCC #4 Rebar 12"OC Bus Stop Mow Strip ADA Ramp (Labor and Truncated Domes Only) Mid-Block ADA Ramp (Labor and Truncated Domes Only) Raised Crosswalk 2" AC Grind and Overlay 5" AC over 12" AB Pavement	\$18.60 LF \$10.00 SF \$0.00 SF \$4.00 SF \$5.00 SF \$6.00 SF \$10.69 SF \$11.00 SF \$0.00 SF \$1,900.00 EA \$550.00 EA \$2,750.00 EA \$1.25 SF \$5.15 SF	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
9. 10. 11. 12. 13. 14. 15. 16. 17. 18.	4' Valley Gutter 3" Valley Gutter 4" PCC Concrete Walk (Includes Ramps and Returns) 5" PCC Concrete Walk (Includes Ramps and Returns) 6" PCC Concrete Driveway 8" PCC #4 Rebar 12"OC Truck Apron 8" PCC #4 Rebar 12"OC Bus Stop Mow Strip ADA Ramp (Labor and Truncated Domes Only) Mid-Block ADA Ramp (Labor and Truncated Domes Only) Raised Crosswalk 2" AC Grind and Overlay 5" AC over 12" AB Pavement 5" AC over 8" AB Pavement	\$18.60 LF \$10.00 SF \$0.00 SF \$4.00 SF \$5.00 SF \$6.00 SF \$10.69 SF \$11.00 SF \$11.00 SF \$2,750.00 EA \$2,750.00 EA \$1.25 SF \$4.35 SF	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 18.	4' Valley Gutter 3" Valley Gutter 4" PCC Concrete Walk (Includes Ramps and Returns) 5" PCC Concrete Walk (Includes Ramps and Returns) 6" PCC Concrete Driveway 8" PCC #4 Rebar 12"OC Truck Apron 8" PCC #4 Rebar 12"OC Bus Stop Mow Strip ADA Ramp (Labor and Truncated Domes Only) Mid-Block ADA Ramp (Labor and Truncated Domes Only) Raised Crosswalk 2" AC Grind and Overlay 5" AC over 12" AB Pavement 5" AC over 8" AB Pavement 4" AC over 10" AB Pavement	\$18.60 LF \$10.00 SF \$0.00 SF \$4.00 SF \$5.00 SF \$6.00 SF \$10.69 SF \$11.00 SF \$0.00 SF \$0.00 SF \$1,900.00 EA \$550.00 EA \$550.00 EA \$2,750.00 EA \$1.25 SF \$4.35 SF \$4.20 SF	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
9. 10. 11. 12. 13. 14. 15. 16. 17. 17. 18. 18. 19.	4' Valley Gutter 3" Valley Gutter 4" PCC Concrete Walk (Includes Ramps and Returns) 5" PCC Concrete Walk (Includes Ramps and Returns) 6" PCC Concrete Driveway 8" PCC #4 Rebar 12"OC Truck Apron 8" PCC #4 Rebar 12"OC Bus Stop Mow Strip ADA Ramp (Labor and Truncated Domes Only) Mid-Block ADA Ramp (Labor and Truncated Domes Only) Raised Crosswalk 2" AC Grind and Overlay 5" AC over 12" AB Pavement 5" AC over 8" AB Pavement 4" AC over 10" AB Pavement 3.5" AC over 7.0" AB Pavement	\$18.60 LF \$10.00 SF \$0.00 SF \$4.00 SF \$5.00 SF \$5.00 SF \$10.69 SF \$11.00 SF \$0.00 SF \$1,900.00 EA \$550.00 EA \$550.00 EA \$1,25 SF \$5.15 SF \$4.35 SF \$4.35 SF \$3.33 SF	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
9. 10. 11. 12. 13. 14. 15. 16. 17. 17. 18. 18. 19. 20.	4' Valley Gutter 3" Valley Gutter 4" PCC Concrete Walk (Includes Ramps and Returns) 5" PCC Concrete Walk (Includes Ramps and Returns) 6" PCC Concrete Driveway 8" PCC #4 Rebar 12"OC Truck Apron 8" PCC #4 Rebar 12"OC Bus Stop Mow Strip ADA Ramp (Labor and Truncated Domes Only) Mid-Block ADA Ramp (Labor and Truncated Domes Only) Raised Crosswalk 2" AC Grind and Overlay 5" AC over 12" AB Pavement 5" AC over 8" AB Pavement 4" AC over 10" AB Pavement 3.5" AC over 7.0" AB Pavement	\$18.60 LF \$10.00 SF \$0.00 SF \$4.00 SF \$5.00 SF \$5.00 SF \$10.69 SF \$11.00 SF \$0.00 SF \$1,900.00 EA \$550.00 EA \$550.00 EA \$1,25 SF \$5.15 SF \$4.35 SF \$4.20 SF \$3.33 SF \$3.65 SF	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 18. 19. 20. 21.	4' Valley Gutter 3" Valley Gutter 4" PCC Concrete Walk (Includes Ramps and Returns) 5" PCC Concrete Walk (Includes Ramps and Returns) 6" PCC Concrete Driveway 8" PCC #4 Rebar 12"OC Truck Apron 8" PCC #4 Rebar 12"OC Bus Stop Mow Strip ADA Ramp (Labor and Truncated Domes Only) Mid-Block ADA Ramp (Labor and Truncated Domes Only) Raised Crosswalk 2" AC Grind and Overlay 5" AC over 12" AB Pavement 5" AC over 8" AB Pavement 4" AC over 10" AB Pavement 3.5" AC over 7.0" AB Pavement 3" AC over 6" AB Pavement	\$18.60 LF \$10.00 SF \$0.00 SF \$4.00 SF \$5.00 SF \$6.00 SF \$10.69 SF \$11.00 SF \$11.00 SF \$11.00 SF \$550.00 EA \$550.00 EA \$550.00 EA \$1.25 SF \$4.35 SF \$4.35 SF \$4.35 SF \$3.33 SF \$3.65 SF \$2.85 SF	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 18. 19. 20. 21. 22.	4' Valley Gutter 3" Valley Gutter 4" PCC Concrete Walk (Includes Ramps and Returns) 5" PCC Concrete Walk (Includes Ramps and Returns) 6" PCC Concrete Driveway 8" PCC #4 Rebar 12"OC Truck Apron 8" PCC #4 Rebar 12"OC Bus Stop Mow Strip ADA Ramp (Labor and Truncated Domes Only) Mid-Block ADA Ramp (Labor and Truncated Domes Only) Raised Crosswalk 2" AC Grind and Overlay 5" AC over 12" AB Pavement 5" AC over 8" AB Pavement 4" AC over 10" AB Pavement 3" AC over 7.0" AB Pavement 3" AC over 6" AB Pavement 3" AC over 6" AB Pavement	\$18.60 LF \$10.00 SF \$0.00 SF \$4.00 SF \$5.00 SF \$5.00 SF \$6.00 SF \$10.69 SF \$11.00 SF \$11.00 SF \$0.00 SF \$1,900.00 EA \$550.00 EA \$550.00 EA \$550.00 EA \$1.25 SF \$4.25 SF \$4.35 SF \$4.35 SF \$4.20 SF \$3.33 SF \$3.65 SF \$2.85 SF	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 18. 19. 20. 21.	4' Valley Gutter 3" Valley Gutter 4" PCC Concrete Walk (Includes Ramps and Returns) 5" PCC Concrete Walk (Includes Ramps and Returns) 6" PCC Concrete Driveway 8" PCC #4 Rebar 12"OC Truck Apron 8" PCC #4 Rebar 12"OC Bus Stop Mow Strip ADA Ramp (Labor and Truncated Domes Only) Mid-Block ADA Ramp (Labor and Truncated Domes Only) Raised Crosswalk 2" AC Grind and Overlay 5" AC over 12" AB Pavement 5" AC over 8" AB Pavement 4" AC over 10" AB Pavement 3.5" AC over 7.0" AB Pavement 3" AC over 6" AB Pavement	\$18.60 LF \$10.00 SF \$0.00 SF \$4.00 SF \$5.00 SF \$6.00 SF \$10.69 SF \$11.00 SF \$11.00 SF \$11.00 SF \$550.00 EA \$550.00 EA \$550.00 EA \$1.25 SF \$4.35 SF \$4.35 SF \$4.35 SF \$3.33 SF \$3.65 SF \$2.85 SF	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00

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	CUA COULA D. D	\$7.45\QE	Ф0.00
25.	5"AC over 22" AB Pavement (TI=8.5)	\$7.15 SF	\$0.00
26.	18" AB	\$3.60 SF	\$0.00
27.	11" AB	\$2.20 SF	\$0.00
28.	8" AB	\$1.60 SF	\$0.00
29.	4" AC	\$2.20 SF	\$0.00
30.	3" AC	\$1.65 SF	\$0.00
30.	3" AC Grind and Overlay	\$2.00 SF	\$0.00
31.	4.5' Monolithic Sidewalk	\$0.00 SF	\$0.00
32.	Enhanced Pavement	\$0.00 SF	\$0.00
33.	Headerboard	\$5.80 LF	\$0.00
34.	Commercial Driveway	\$6,250.00 LS	\$0.00
		SUB-TOTAL ===>	ድብ በብ
		30B-101AL ===>	\$0.00
ı.	RAIN GARDEN		
1.	Excavation	\$0.40 CF	\$0.00
2.	Soil - Planting Media	\$0.00 CF	\$0.00
3.	1.5" Washed Drain Rock	\$0.00 CF	\$0.00
4.	4" Perforated Pipe	\$0.00 LF	\$0.00
5.	24" Diameter Inlet	\$0.00 EA	\$0.00
	24 Diamotor mict	Ψ0.00 Ε/	Ψ0.00
		SUB-TOTAL ===>	\$0.00
			
J.	STREET LIGHTS		
1.	70 Watt Electrolier	\$0.00 EA	\$0.00
2.	100 Watt Electrolier	\$4,500.00 EA	\$0.00
3.	150 Watt Electrolier	\$5,075.00 EA	\$0.00
4.	200 Watt Electrolier	\$6,166.67 EA	\$0.00
5.	70 Watt Electrolier - Decorative	\$0.00 EA	\$0.00
6.	100 Watt Electrolier - Decorative	\$0.00 EA	\$0.00
7.	150 Watt Electrolier - Decorative	\$0.00 EA	\$0.00
8.	200 Watt Electrolier - Decorative	\$0.00 EA	\$0.00
9.	4430 Lumen - LED Electrolier	\$4,525.00 EA	\$0.00
10.	5920 Lumen - LED Electrolier	\$5,530.00 EA	\$0.00
		73,233.00	+
		SUB-TOTAL ===>	\$0.00
K.	STRIPING AND SIGNAGE		
1.	Stop Bar Legend	\$575.00 EA	\$0.00
2.	Street Name and Directional Signs	\$380.00 EA	\$0.00
3.	ADA Sign	\$225.00 EA	\$0.00
4.	ADA Stall Striping	\$125.00 EA	\$0.00
5.	ADA Stall Striping Loading Zones	\$20.00 EA	\$0.00
6.	Compact Stall Striping	\$15.00 EA	\$0.00
7.	Regular Stall Striping	\$14.00 EA	\$0.00
8.	Red Curb Paint	\$1.00 LF	\$0.00
9.	Fire Hydrant Markers	\$5.00 EA	\$0.00
10.	Roundabout Advance Warning Sign	\$308.33 EA	\$0.00
11.	Roundabout Signage	\$937.50 EA	\$0.00
12.	Traffic Delineation	\$1.75 LF	\$0.00
13.	Bicycle Lane Striping	\$1.50 LF	\$0.00
14.	Bicycle Lane Signage	\$337.50 EA	\$0.00
15.	Dead End Sign (W14-1)	\$337.50 EA	\$0.00
16.	No Outlet Sign (W14-2)	\$337.50 EA	\$0.00
17.	Signage and Striping	\$11,791.67 LS	\$0.00
		Ţ · · · · · · · · · · · · · · · · · ·	+ 3.00

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	Street Monuments	¢240 00 □ A	ቀስ ሰስ
18. 19.	Traffic Delineation (Striping and Stop bars)	\$310.00 EA \$1.75 EA	\$0.00 \$0.00
20.	Street Monuments	\$311.00 EA	\$0.00
21.	Traffic Arrows	\$450.00 EA	\$0.00
22.	Street Monuments	\$311.00 EA	\$0.00
23.	Traffic Signal and Controls	\$350,000.00 EA	\$0.00
24.	Modified Traffic Signal and Controls	\$150,000.00 EA	\$0.00
24.	Street Monuments	\$311.00 EA	\$0.00
25.	RTD Bus Stop	\$17,500.00 EA	\$0.00
26.	Striping - Intersection	\$10,000.00 LS	\$0.00
27.	Remove Striping	\$1.00 LS	\$0.00
28.	Remove Arrows	\$200.00 LS	\$0.00
		CUP TOTAL>	\$0.00
		SUB-TOTAL ===>	\$0.00
L.	PHASE TRANSITION (SEE ESTIMATE NOTES)		
1.	Phasing Transition Temporary	\$10,000.00 LS	\$0.00
2.	Phasing Transition Removal	\$6,250.00 LS	\$0.00
	-		
		SUB-TOTAL ===>	\$0.00
	LANDOGADE AND TREES		
<u>М.</u> 1.	Park Fixtures and Hard Improvements	\$100,000.00 LS	\$0.00
2.	Levee Improvements	\$12,000.00 LS	\$0.00
3.	Park/Basin Maintenance	\$3,000.00 MON	\$0.00
	r and dasin maintenance	\$5,000.00 MON	φυ.υυ
		SUB-TOTAL ===>	\$0.00
			70.00
N.	MISCELLANEOUS		
1.			
	Landscape w/ Irrigation (Streetscape)	\$5.00 SF	\$0.00
2.	Landscape w/ Irrigation (Median)	\$5.00 SF	\$0.00
3.	Landscape w/ Irrigation (Median) Landscape w/ Irrigation (Park Area)	\$5.00 SF \$6.50 SF	\$0.00 \$0.00
3.	Landscape w/ Irrigation (Median) Landscape w/ Irrigation (Park Area) Landscape w/ Irrigation (Roundabout)	\$5.00 SF \$6.50 SF \$5.00 SF	\$0.00 \$0.00 \$0.00
3. 4. 5.	Landscape w/ Irrigation (Median) Landscape w/ Irrigation (Park Area) Landscape w/ Irrigation (Roundabout) Landscape w/ Irrigation (Basin)	\$5.00 SF \$6.50 SF \$5.00 SF \$5.00 SF	\$0.00 \$0.00 \$0.00 \$0.00
3. 4. 5. 6.	Landscape w/ Irrigation (Median) Landscape w/ Irrigation (Park Area) Landscape w/ Irrigation (Roundabout) Landscape w/ Irrigation (Basin) Landscape w/ Irrigation (Entry)	\$5.00 SF \$6.50 SF \$5.00 SF \$5.00 SF \$5.00 SF	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00
3. 4. 5. 6.	Landscape w/ Irrigation (Median) Landscape w/ Irrigation (Park Area) Landscape w/ Irrigation (Roundabout) Landscape w/ Irrigation (Basin) Landscape w/ Irrigation (Entry) Landscape w/ Irrigation (Open Space)	\$5.00 SF \$6.50 SF \$5.00 SF \$5.00 SF \$5.00 SF \$0.50 SF	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
3. 4. 5. 6. 6.	Landscape w/ Irrigation (Median) Landscape w/ Irrigation (Park Area) Landscape w/ Irrigation (Roundabout) Landscape w/ Irrigation (Basin) Landscape w/ Irrigation (Entry) Landscape w/ Irrigation (Open Space) Landscape w/ Irrigation (Park-Basin Area)	\$5.00 SF \$6.50 SF \$5.00 SF \$5.00 SF \$5.00 SF \$0.50 SF \$142,256.32 SF	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
3. 4. 5. 6. 6. 6.	Landscape w/ Irrigation (Median) Landscape w/ Irrigation (Park Area) Landscape w/ Irrigation (Roundabout) Landscape w/ Irrigation (Basin) Landscape w/ Irrigation (Entry) Landscape w/ Irrigation (Open Space) Landscape w/ Irrigation (Park-Basin Area) Landscape w/ Irrigation (Park-Upland Area)	\$5.00 SF \$6.50 SF \$5.00 SF \$5.00 SF \$5.00 SF \$0.50 SF \$142,256.32 SF \$368,352.20 SF	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
3. 4. 5. 6. 6. 6.	Landscape w/ Irrigation (Median) Landscape w/ Irrigation (Park Area) Landscape w/ Irrigation (Roundabout) Landscape w/ Irrigation (Basin) Landscape w/ Irrigation (Entry) Landscape w/ Irrigation (Open Space) Landscape w/ Irrigation (Park-Basin Area) Landscape w/ Irrigation (Park-Upland Area) Landscape w/o Irrigation (Basin Hydroseeding)	\$5.00 SF \$6.50 SF \$5.00 SF \$5.00 SF \$5.00 SF \$0.50 SF \$0.50 SF \$142,256.32 SF \$368,352.20 SF \$0.45 SF	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
3. 4. 5. 6. 6. 6. 6.	Landscape w/ Irrigation (Median) Landscape w/ Irrigation (Park Area) Landscape w/ Irrigation (Roundabout) Landscape w/ Irrigation (Basin) Landscape w/ Irrigation (Entry) Landscape w/ Irrigation (Open Space) Landscape w/ Irrigation (Park-Basin Area) Landscape w/ Irrigation (Park-Upland Area) Landscape w/o Irrigation (Basin Hydroseeding) Basin Decorative Fencing and Security (signs) Features	\$5.00 SF \$6.50 SF \$5.00 SF \$5.00 SF \$5.00 SF \$0.50 SF \$142,256.32 SF \$368,352.20 SF \$368,352.20 SF \$30.00 LF	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
3. 4. 5. 6. 6. 6. 6. 6. 7.	Landscape w/ Irrigation (Median) Landscape w/ Irrigation (Park Area) Landscape w/ Irrigation (Roundabout) Landscape w/ Irrigation (Basin) Landscape w/ Irrigation (Entry) Landscape w/ Irrigation (Open Space) Landscape w/ Irrigation (Park-Basin Area) Landscape w/ Irrigation (Park-Upland Area) Landscape w/o Irrigation (Basin Hydroseeding) Basin Decorative Fencing and Security (signs) Features 16' Sound Wall	\$5.00 SF \$6.50 SF \$5.00 SF \$5.00 SF \$5.00 SF \$0.50 SF \$142,256.32 SF \$368,352.20 SF \$0.45 SF \$30.00 LF	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
3. 4. 5. 6. 6. 6. 6. 6. 7.	Landscape w/ Irrigation (Median) Landscape w/ Irrigation (Park Area) Landscape w/ Irrigation (Roundabout) Landscape w/ Irrigation (Basin) Landscape w/ Irrigation (Entry) Landscape w/ Irrigation (Open Space) Landscape w/ Irrigation (Park-Basin Area) Landscape w/ Irrigation (Park-Upland Area) Landscape w/o Irrigation (Basin Hydroseeding) Basin Decorative Fencing and Security (signs) Features 16' Sound Wall 12.67' Sound Wall	\$5.00 SF \$6.50 SF \$5.00 SF \$5.00 SF \$5.00 SF \$0.50 SF \$142,256.32 SF \$368,352.20 SF \$0.45 SF \$30.00 LF \$0.00 LF	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
3. 4. 5. 6. 6. 6. 6. 7. 8.	Landscape w/ Irrigation (Median) Landscape w/ Irrigation (Park Area) Landscape w/ Irrigation (Roundabout) Landscape w/ Irrigation (Basin) Landscape w/ Irrigation (Entry) Landscape w/ Irrigation (Open Space) Landscape w/ Irrigation (Park-Basin Area) Landscape w/ Irrigation (Park-Upland Area) Landscape w/o Irrigation (Basin Hydroseeding) Basin Decorative Fencing and Security (signs) Features 16' Sound Wall 12.67' Sound Wall 10' Sound Wall	\$5.00 SF \$6.50 SF \$5.00 SF \$5.00 SF \$5.00 SF \$0.50 SF \$0.50 SF \$142,256.32 SF \$368,352.20 SF \$0.45 SF \$30.00 LF \$160.00 LF \$160.00 LF	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
3. 4. 5. 6. 6. 6. 6. 7. 8. 9.	Landscape w/ Irrigation (Median) Landscape w/ Irrigation (Park Area) Landscape w/ Irrigation (Roundabout) Landscape w/ Irrigation (Basin) Landscape w/ Irrigation (Entry) Landscape w/ Irrigation (Open Space) Landscape w/ Irrigation (Park-Basin Area) Landscape w/ Irrigation (Park-Upland Area) Landscape w/o Irrigation (Basin Hydroseeding) Basin Decorative Fencing and Security (signs) Features 16' Sound Wall 12.67' Sound Wall 8' Sound Wall	\$5.00 SF \$6.50 SF \$5.00 SF \$5.00 SF \$5.00 SF \$0.50 SF \$0.50 SF \$0.45 SF \$368,352.20 SF \$30.00 LF \$140.00 LF \$140.00 LF \$140.00 LF	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
3. 4. 5. 6. 6. 6. 6. 7. 8. 9. 10.	Landscape w/ Irrigation (Median) Landscape w/ Irrigation (Park Area) Landscape w/ Irrigation (Roundabout) Landscape w/ Irrigation (Basin) Landscape w/ Irrigation (Entry) Landscape w/ Irrigation (Open Space) Landscape w/ Irrigation (Park-Basin Area) Landscape w/ Irrigation (Park-Upland Area) Landscape w/ Irrigation (Basin Hydroseeding) Basin Decorative Fencing and Security (signs) Features 16' Sound Wall 12.67' Sound Wall 10' Sound Wall 8' Sound Wall 7.33' Sound Wall	\$5.00 SF \$6.50 SF \$5.00 SF \$5.00 SF \$5.00 SF \$0.50 SF \$0.50 SF \$142,256.32 SF \$368,352.20 SF \$0.45 SF \$30.00 LF \$0.00 LF \$140.00 LF \$140.00 LF \$110.00 LF	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
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3. 4. 5. 6. 6. 6. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15.	Landscape w/ Irrigation (Median) Landscape w/ Irrigation (Park Area) Landscape w/ Irrigation (Roundabout) Landscape w/ Irrigation (Basin) Landscape w/ Irrigation (Entry) Landscape w/ Irrigation (Open Space) Landscape w/ Irrigation (Park-Basin Area) Landscape w/ Irrigation (Park-Upland Area) Landscape w/ Irrigation (Basin Hydroseeding) Basin Decorative Fencing and Security (signs) Features 16' Sound Wall 12.67' Sound Wall 10' Sound Wall 8' Sound Wall 6.67' Sound Wall 6.67' Sound Wall 6' Sound Wall 4.00' Masonry Wall 7.33' Masonry Wall 7.33' Masonry Wall 8.00' Masonry Wall	\$5.00 SF \$6.50 SF \$5.00 SF \$5.00 SF \$5.00 SF \$5.00 SF \$0.50 SF \$0.50 SF \$142,256.32 SF \$368,352.20 SF \$0.45 SF \$30.00 LF \$0.00 LF \$140.00 LF \$140.00 LF \$110.00 LF \$110.00 LF \$110.00 LF \$110.00 LF \$110.00 LF \$110.00 LF	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00
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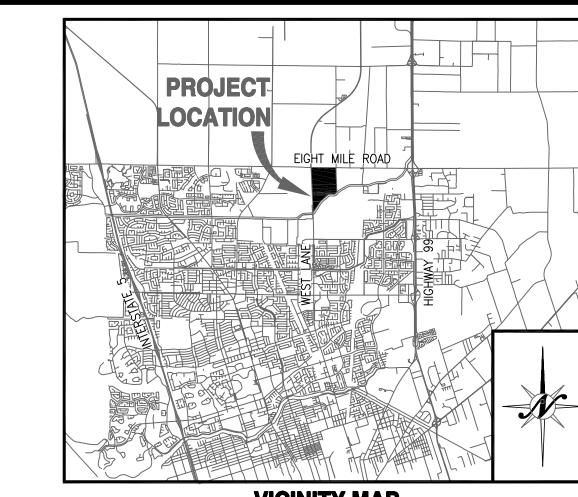
22.	2' Retaining Wall	\$45.00 LF	\$0.00
23.	Wood Fence	\$0.00 LF	\$0.00
24.	Wood Fence Gate	\$0.00 LF	\$0.00
25.	Wrought Iron Fence	\$0.00 LF	\$0.00
26.	Wrought Iron Fence Gate	\$0.00 LF	\$0.00
27.	Chain Link Fence	\$0.00 LF	\$0.00
28.	Chain Link Fence Gate	\$0.00 LF	\$0.00
29.	Barbed Wire Fence	\$0.00 LF	\$0.00
30.	Barbed Wire Fence Gate	\$0.00 LF	\$0.00
31.	Joint Trench	\$7,000.00 EA	\$0.00
31.	Joint Trench Main	\$100.00 LF	\$0.00
31.	Underground Existing 12 KVA Utility Poles	\$200.00 LF	\$0.00
32.	Construction Dewatering	\$52.50 LF	\$0.00
33.	Construction Dewatering (total)	\$100,000.00 EA	\$0.00
34.	Gate 28' (Levee Access Road)	\$2,333.33 EA	\$0.00
35.	Entry Monument (Minor)	\$50,000.00 EA	\$0.00
36.	Entry Monument (Major)	\$100,000.00 EA	\$0.00
37.	Replacement of Existing Landscape	\$5.00 SF	\$0.00
38.	Trench Patching	\$72.50 LF	\$0.00
39.	Street Barricade	\$750.00 EA	\$0.00

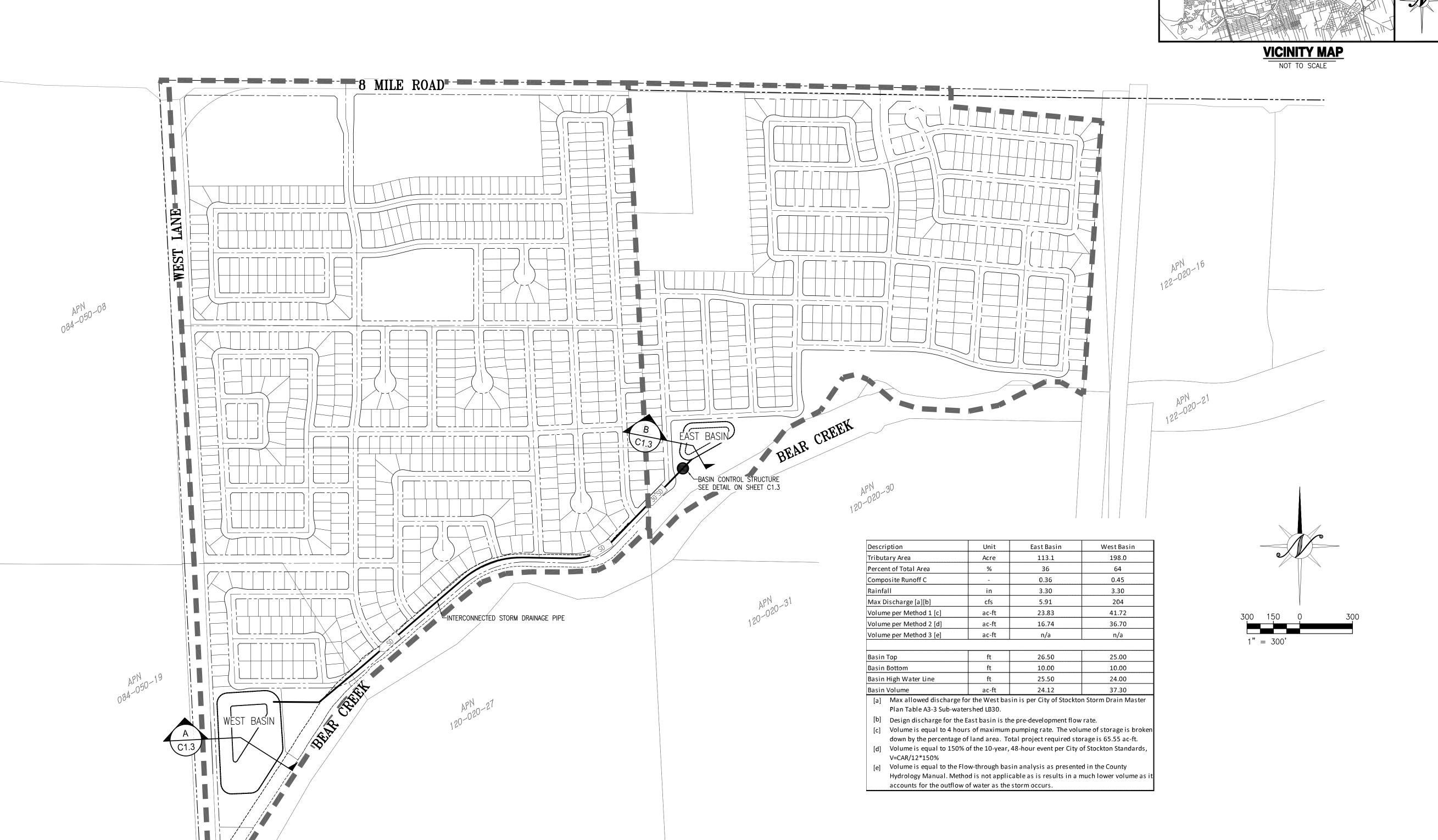
SUB-TOTAL ===>	\$0.00
CONSTRUCTION SUB-TOTAL ===>	\$0.00
CONTINGENCY - 10% ===>	\$0.00 \$0.00
CONSTRUCTION TOTAL ===>	\$0.00
SOFT COSTS - 20% ===>	\$0.00
=	
GRAND TOTAL ===>	\$0.00
TOTAL LOTS ===>	1
COST PER LOT ===>	\$0.00

Printed: 10/9/2019 Page 9 of 9



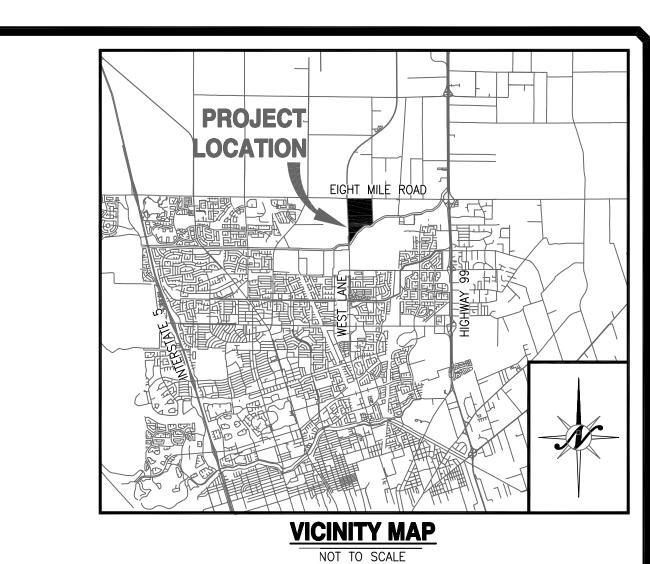
PRELIMINARY STORM DRAINAGE BASIN DESIGN TRA VIGNE STOCKTON, CALIFORNIA

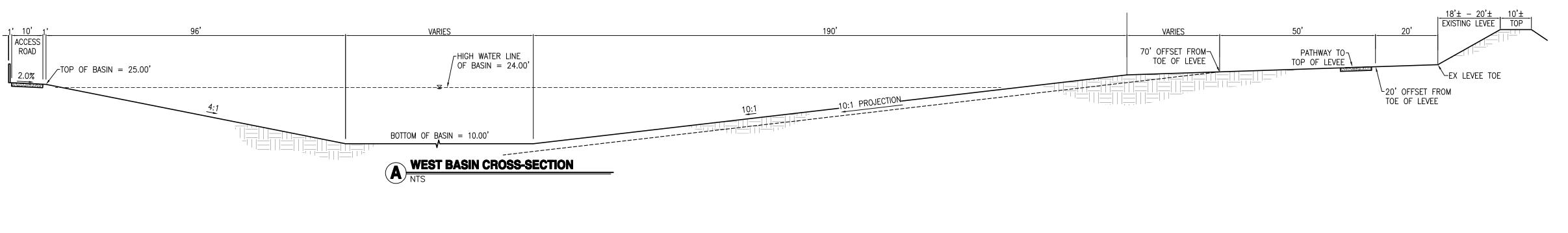


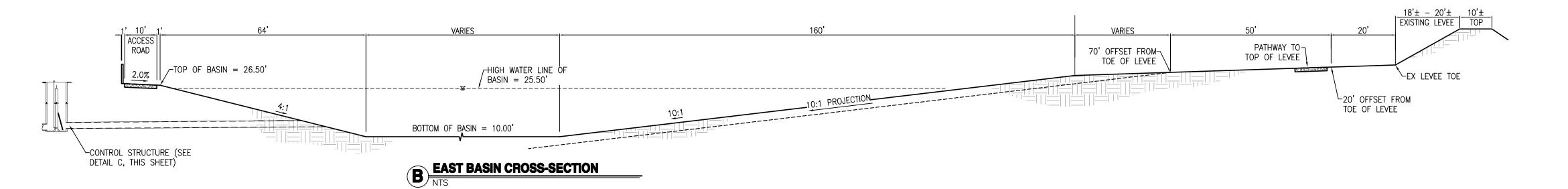


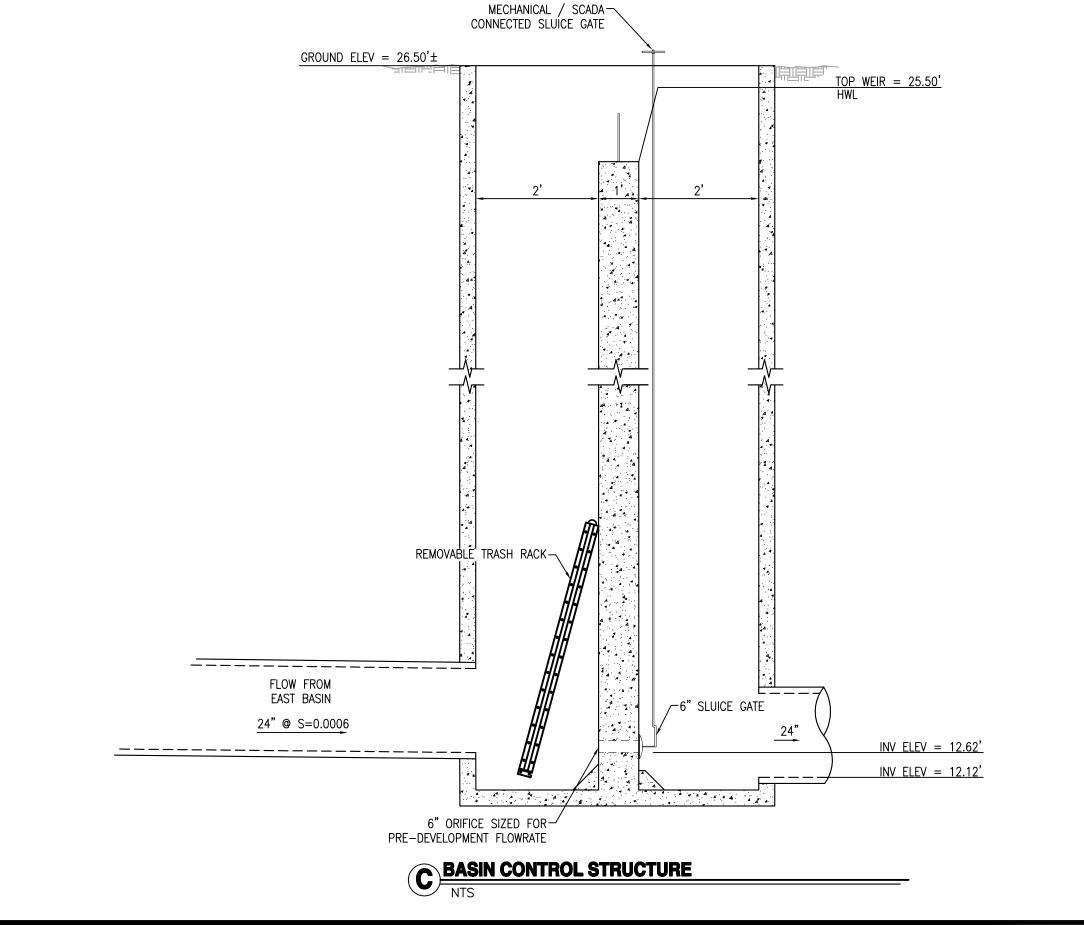
15-1532 09/13/2019 AS SHOWN CV APD SHEET UMBER

BASIN CROSS SECTIONS AND CONTROL STRUCTURE DETAIL TRA VIGNE STOCKTON, CALIFORNIA



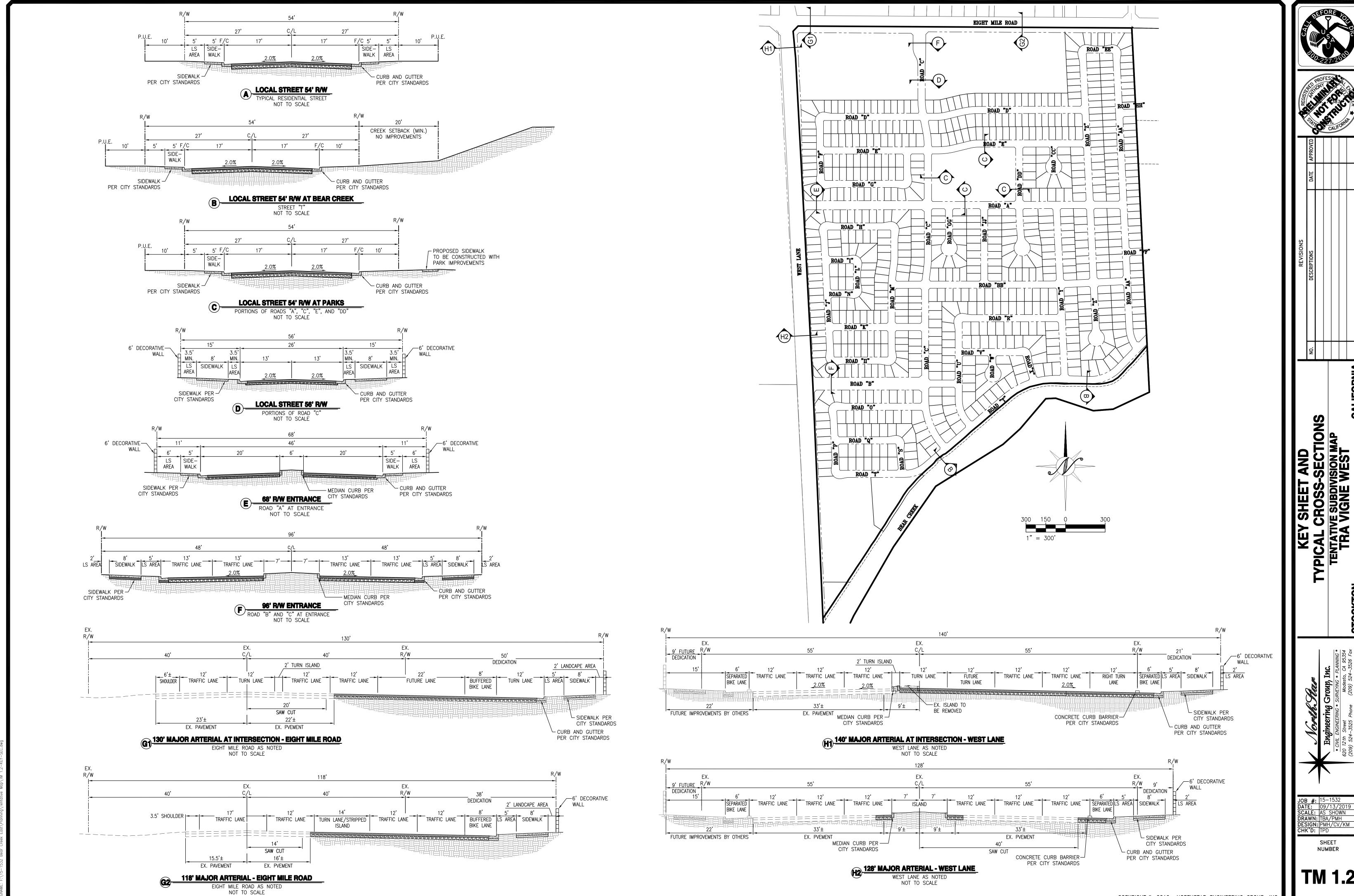






Group, Inc.
SURVEYING - PLANNING - Modesto, CA 95354 (209) 524-3526 Fax STOCKTON,

TRA VIGNE SUBDIV STOCKTON,



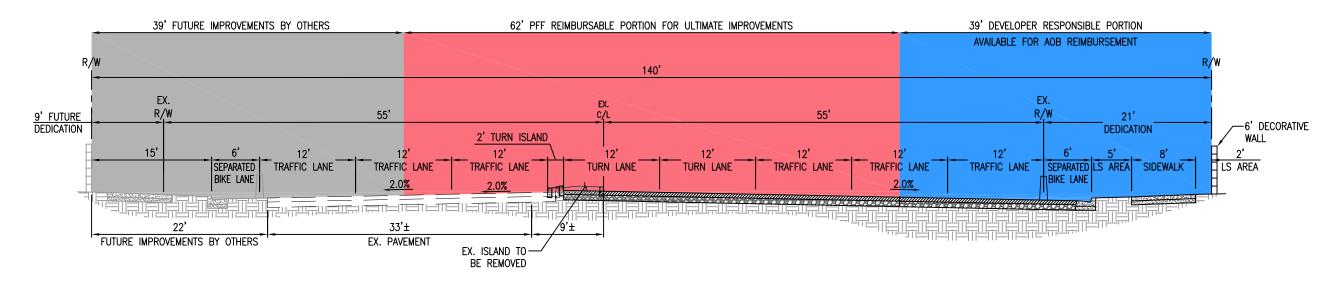
Attachment G

PLOHED: 9/12/2019 8:38 AM PLOHED BY: Phurban DWCNAMF: F1 15—15.79 Bear Creek East\Plannipa\Evihitis\Infrastricture and Phasina Exhibits\Offsire Street Infrastrictur

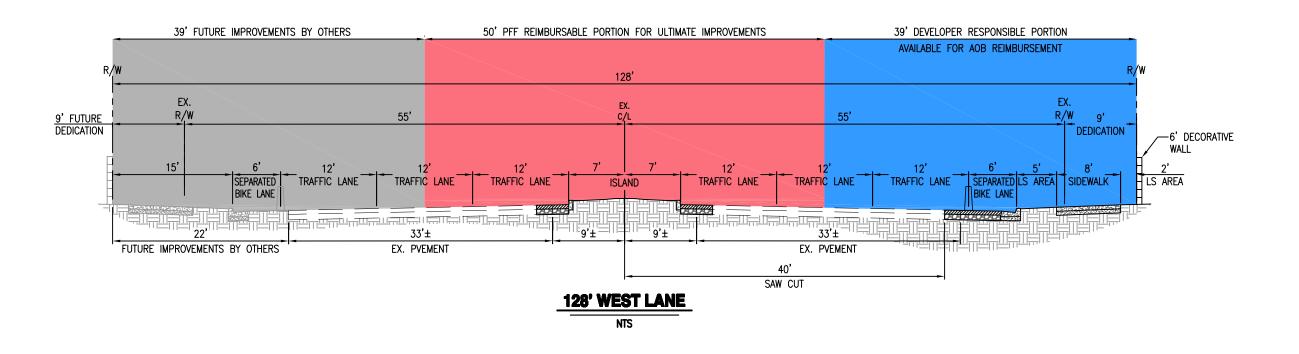
EX 2.2 WEST LANE TYPICAL CROSS SECTIONS

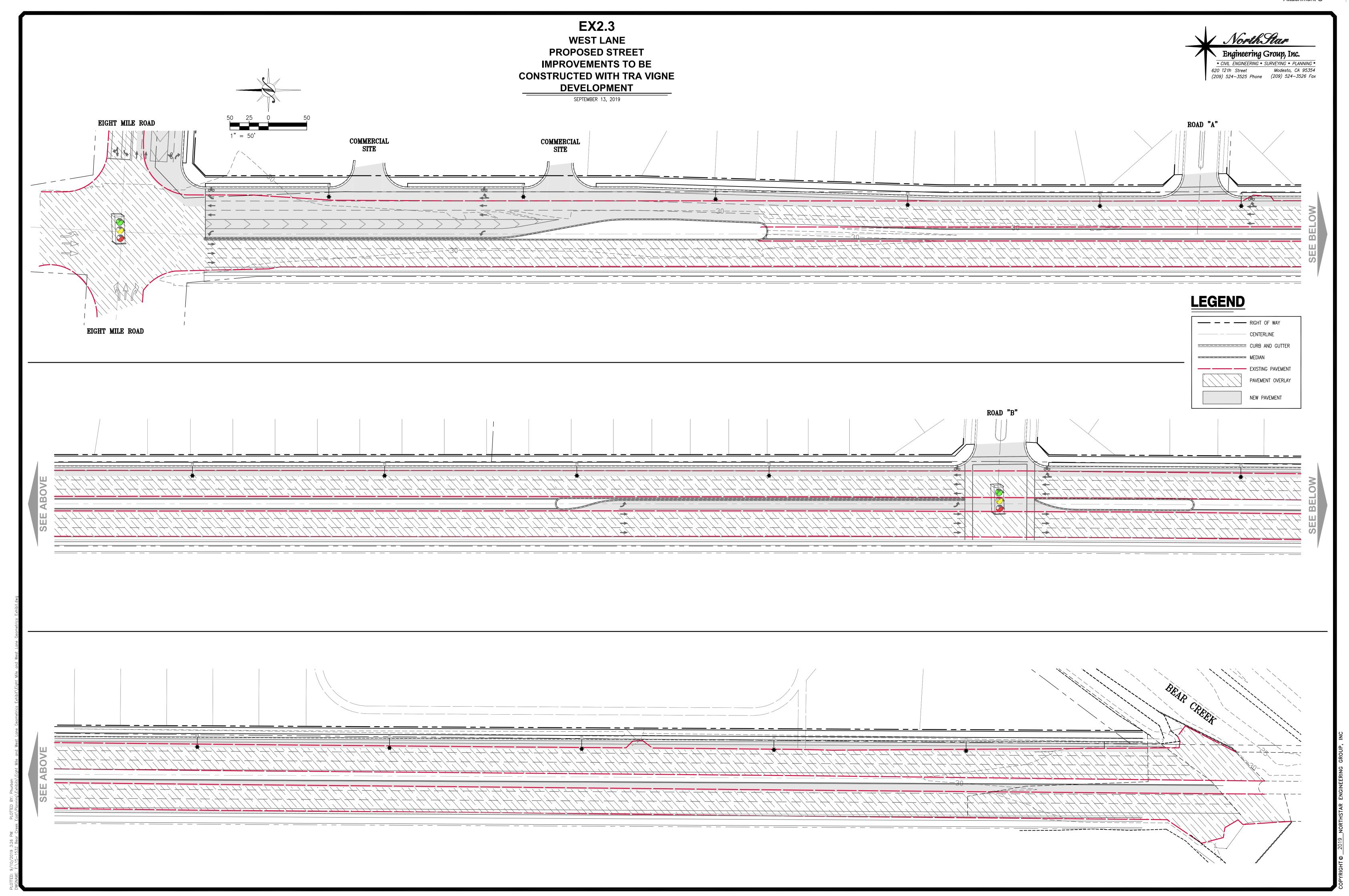
SEPTEMBER 13, 2019





140' WEST LANE AT EIGHT MILE ROAD INTERSECTION



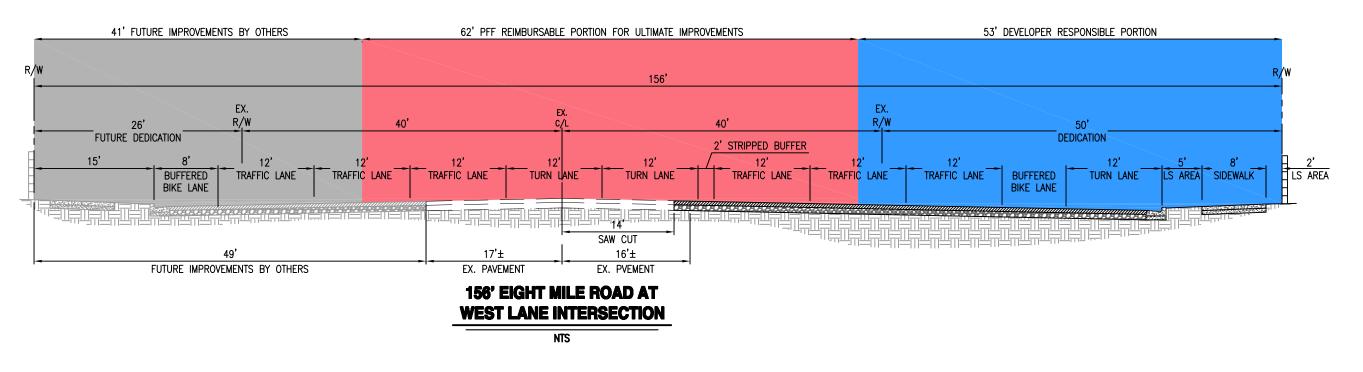


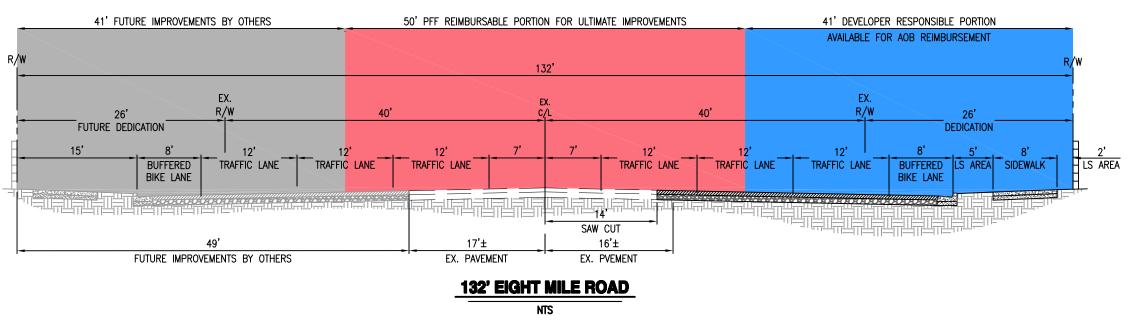
EX 2.4

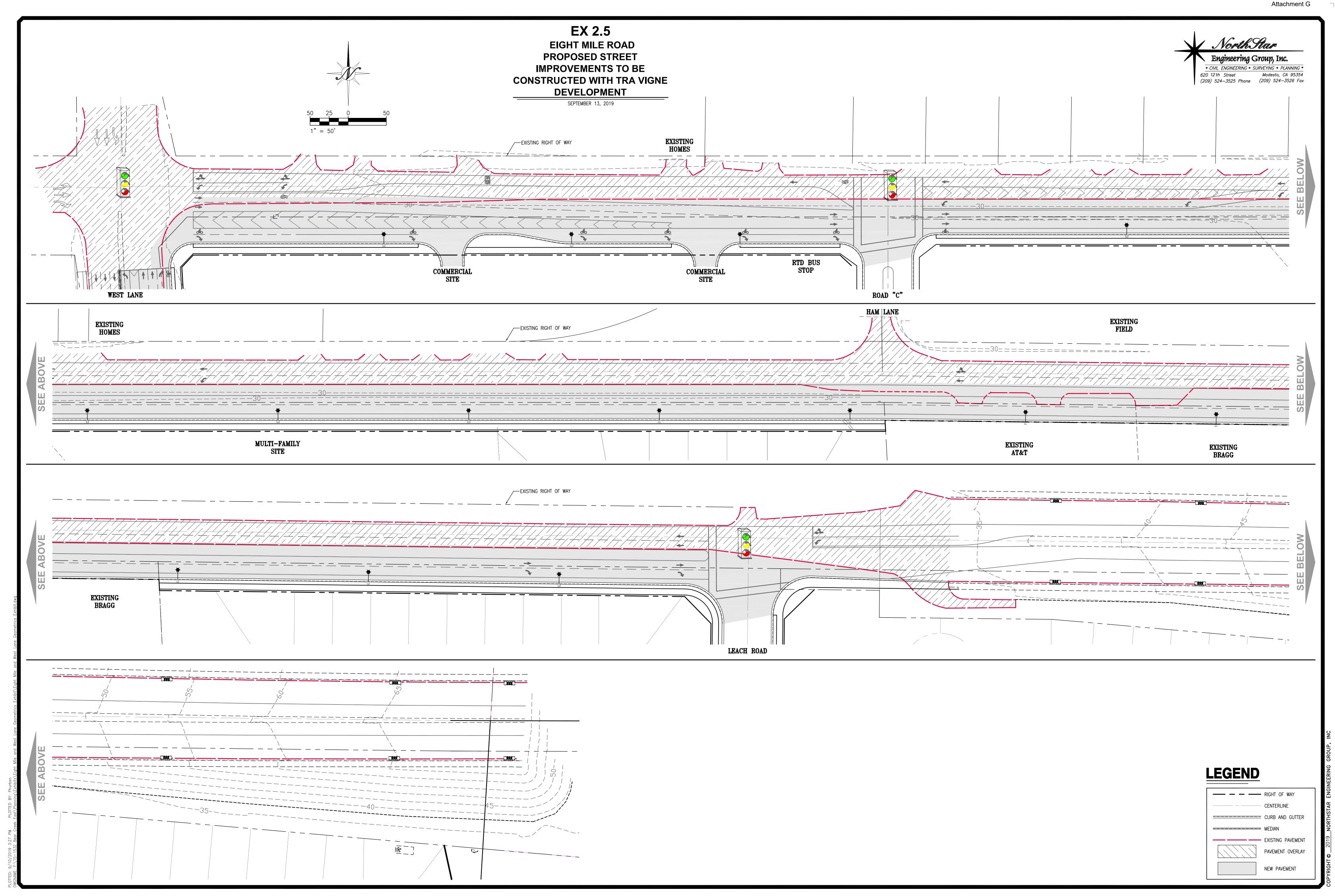
EIGHT MILE ROAD TYPICAL ROAD CROSS SECTIONS

SEPTEMBER 13, 2019







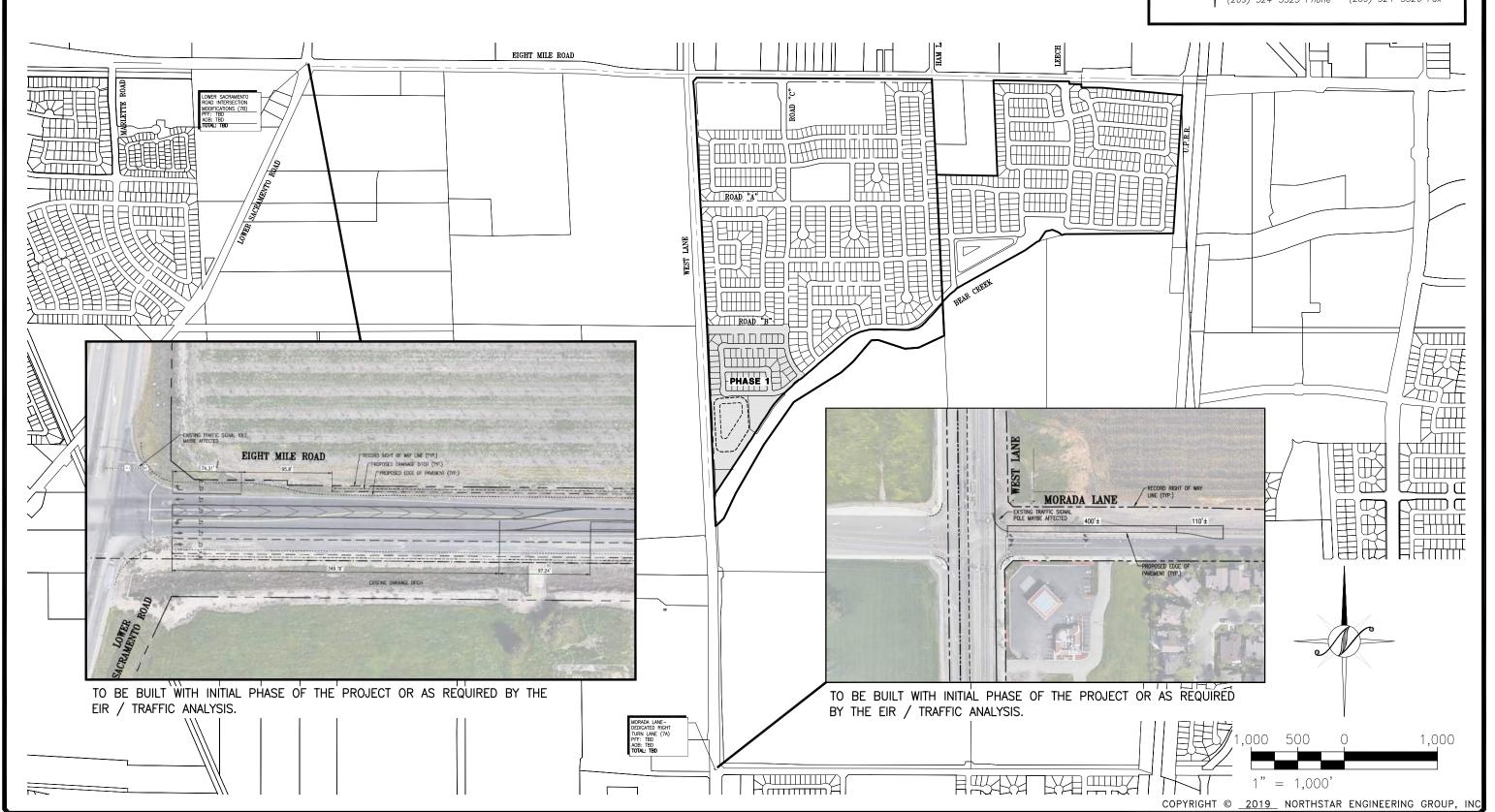


EX 2.6OFF-SITE INTERSECTION IMPROVEMENT PER EIR MITIGATION AOB EXHIBIT

SEPTEMBER 13, 2019



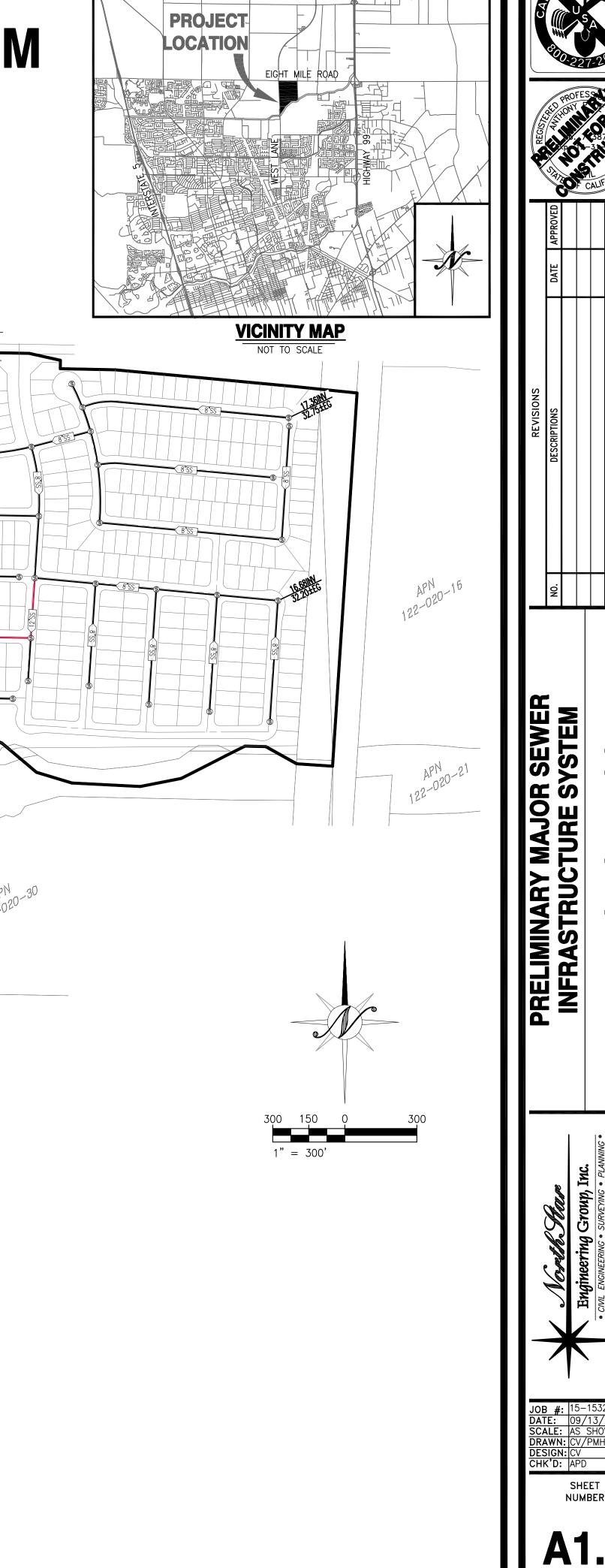
620 12 th Street Modesto, CA 95354 (209) 524–3525 Phone (209) 524–3526 Fax



PRELIMINARY MAJOR SEWER INFRASTRUCTURE SYSTEM TRA VIGNE STOCKTON, CALIFORNIA AN ADDITIONAL 14.2 AC OF COMMERCIAL IS ASSUMED IN THIS AREA, GENERATING 33,960 GPD AN ADDITIONAL 15.5 AC OF LOW DENSITY RESIDENTIAL IS ASSUMED IN THIS AREA, GENERATING 37,224 GPD AVERAGE DAILY AN ADDITIONAL 290 AC OF LOW DENSITY RESIDENTIAL IS ASSUMED IN THIS AREA, GENERATING 609,000 GPD AVERAGE DAILY FLOW. SEE NODE "BCW" **LEGEND** BACKBONE TRUNK SEWER LINES 8" DISTRIBUTION SEWER LINES EX-SSMH(7951) ±24.15RIM /±-0.35FL(48")S /±-0.35FL(48")W COPYRIGHT © 2019 NORTHSTAR ENGINEERING GROUP, INC

PRELIMINARY MAJOR SEWER INFRASTRUCTURE SYSTEM TRA VIGNE

STOCKTON, CALIFORNIA

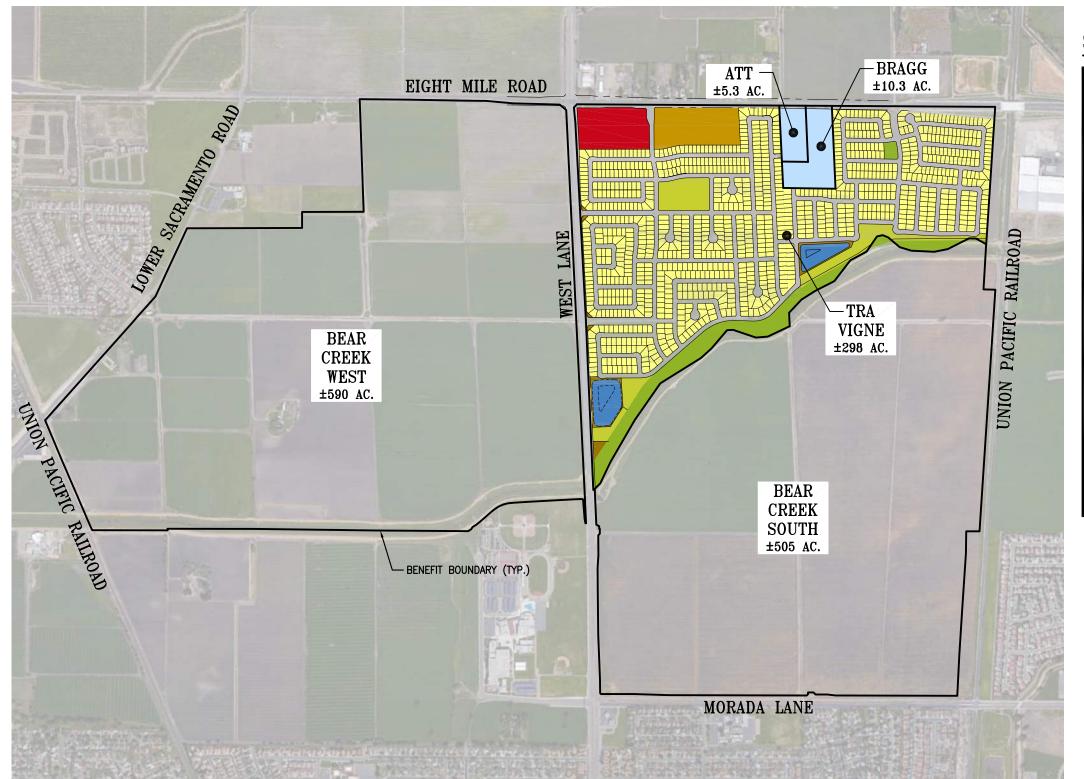




EX 1.1PROJECT REFERENCE MAP FOR AREA OF BENEFIT ANALYSIS

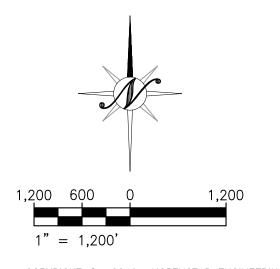
FEBRUARY 27, 2019

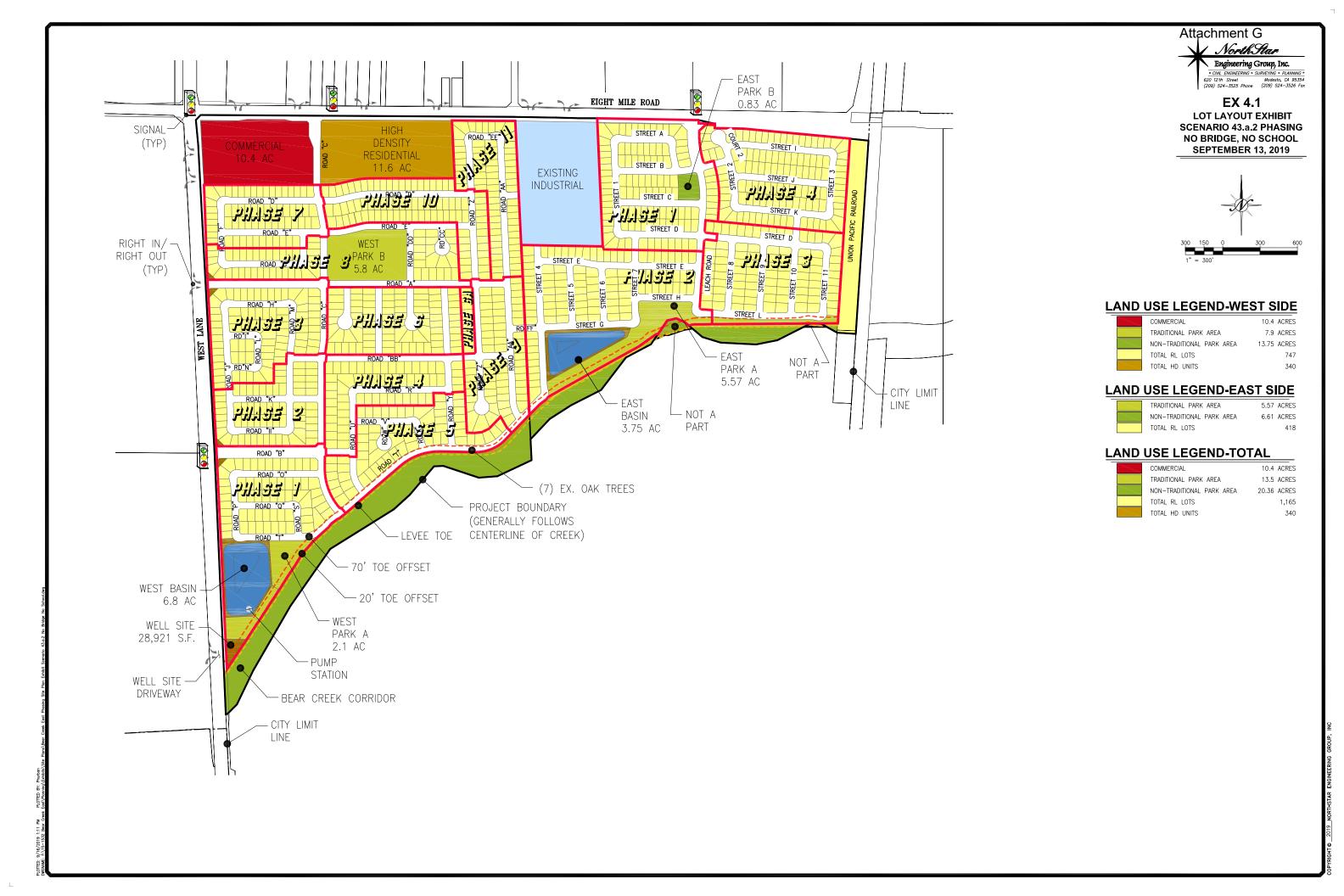


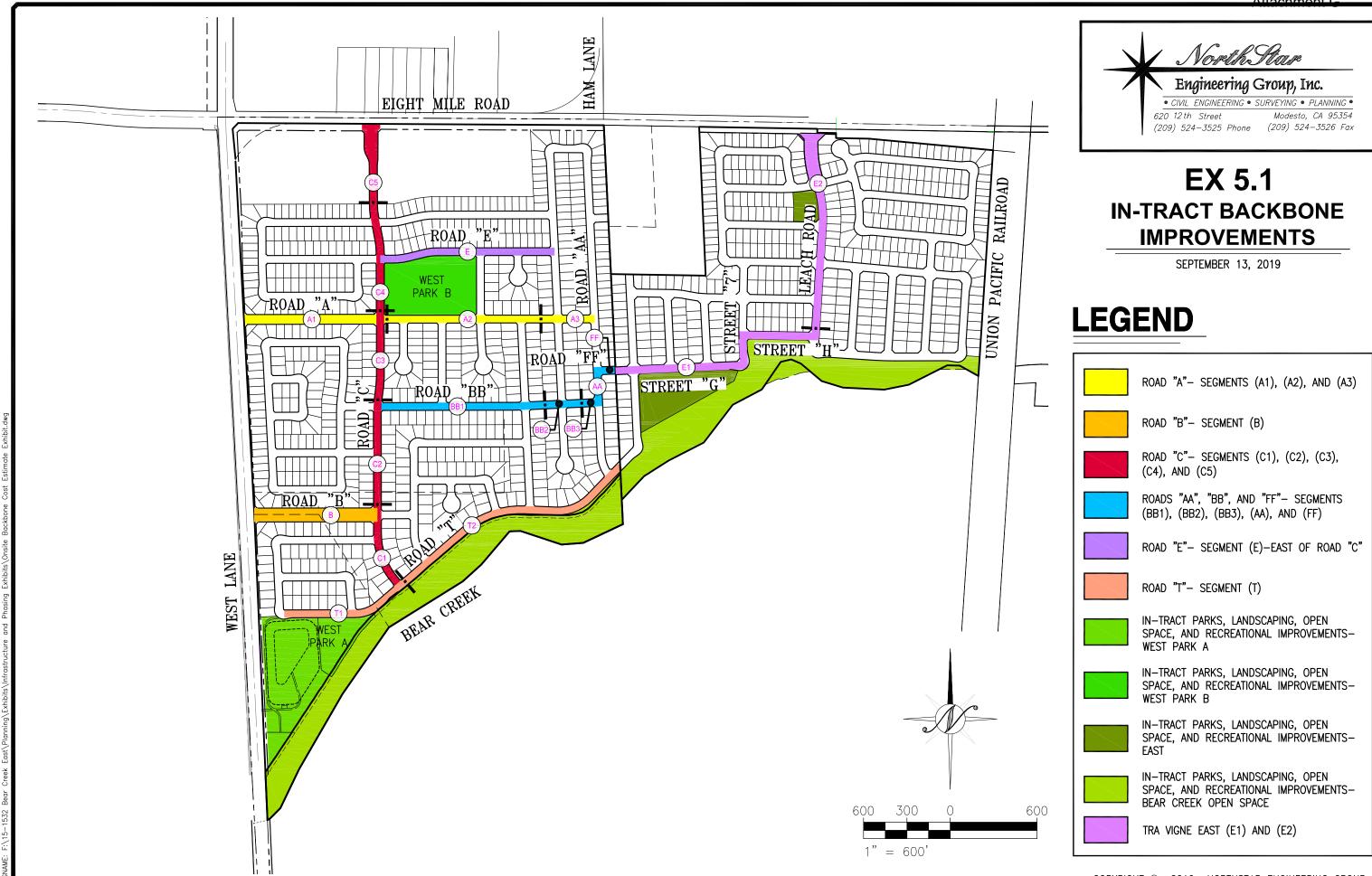


SHEET INDEX

1. EX1.1 AREA OF BENEFIT EXHIBIT WITH TABLE OF CONTENTS OFFSITE STREET INFRASTRUCTURE PFF & AOB 2. EX2.1 **EXHIBIT** 3. EX2.2 WEST LANE CROSS SECTION EXHIBIT EX2.3 WEST LANE GEOMETRICS EXHIBIT EX2.4 EIGHT MILE ROAD CROSS SECTION EXHIBIT 6. EX2.5 EIGHT MILE ROAD GEOMETRICS EXHIBIT 7. EX2.6 OFFSITE INTERSECTION INFRASTRUCTURE PFF & **AOB EXHIBIT** 8. EX3.1 OFF-SITE AND ON-SITE INFRASTRUCTURE REIMBURSMENT AND AOB EXHIBIT TRA VIGNE IN-TRACT PHASING PLAN 10. EX5.1 ONSITE BACKBONE COST ESTIMATE EXHIBIT 11. EX6.1 TRA VIGNE PHASE 1 INFRASTRUCTURE 12. EX6.2 TRA VIGNE PHASE 2 INFRASTRUCTURE 13. EX6.3 TRA VIGNE PHASE 3 INFRASTRUCTURE 14. EX6.4 TRA VIGNE PHASE 4 INFRASTRUCTURE 15. EX6.5 TRA VIGNE PHASE 5 INFRASTRUCTURE 16. EX6.6 TRA VIGNE PHASE 6 INFRASTRUCTURE 17. EX6.7 TRA VIGNE PHASE 7 INFRASTRUCTURE 18. EX6.8 TRA VIGNE PHASE 8 INFRASTRUCTURE 19. EX6.9 TRA VIGNE PHASE 9 INFRASTRUCTURE 20. EX6.10 TRA VIGNE PHASE 10 INFRASTRUCTURE 21. EX6.11 TRA VIGNE PHASE 11 INFRASTRUCTURE 22. EX6.12 TRA VIGNE PHASE 12 INFRASTRUCTURE 23. EX7.1 TRA VIGNE EAST PHASE 1 INFRASTRUCTURE 24. EX7.2 TRA VIGNE EAST PHASE 2 INFRASTRUCTURE 25. EX7.3 TRA VIGNE EAST PHASE 3 INFRASTRUCTURE 26. EX7.4 TRA VIGNE EAST PHASE 4 INFRASTRUCTURE









EX 6.2 TRA VIGNE PHASE 2 INFRASTRUCTURE

FEBRUARY 27, 2019

LEGEND

 WATER	MAIN
 SEWER	MAIN
 STORM	MAIN

PRODUCT TYPE	5,000 SF	5,500 SF	6,000 SF	TOTAL
PHASE 2	66) 	1	66
PHASE 2 ROADS				
BACKBONE ROADS		T1 SEI	e exhibit	5.1
SEPARATE PHASE IN-TRACT ROADS				



EX 6.3 TRA VIGNE PHASE 3 **INFRASTRUCTURE**

FEBRUARY 27, 2019

LEGEND

WATER MAIN SEWER MAIN STORM MAIN

PRODUCT TYPE	5,000 SF	5,500 SF	6,000 SF	TOTAL
PHASE 3	1	76	-	76
PHASE 3 ROADS				
BACKBONE ROADS	T1 SEE EXHIBIT 5.1		5.1	
SEPARATE PHASE IN-TRACT ROADS	SEE EXHIBIT 6.2			





EX 6.4 TRA VIGNE PHASE 4 **INFRASTRUCTURE**

FEBRUARY 27, 2019

LEGEND



UNIT DISTRIBUTION

PRODUCT TYPE	5,000 SF	5,500 SF	6,000 SF	TOTAL
PHASE 4	1	1	60	60
PHASE 4 ROADS				
BACKBONE ROADS	T1 SEE EXHIBIT 5.1			5.1
SEPARATE PHASE IN-TRACT ROADS				

LANE WEST ON-SITE -PHASE LINE-ROAD "BB" ON-SITE/-OFF-SITE LINE ROAD _"့ _" ROAD ROAD ROAD REQUIRED H PHASE ROAD "B" BEAR CREEK - CONNECT TO EXISTING PHASE 1 STORM DRAIN ROAD 300 1" = 300'



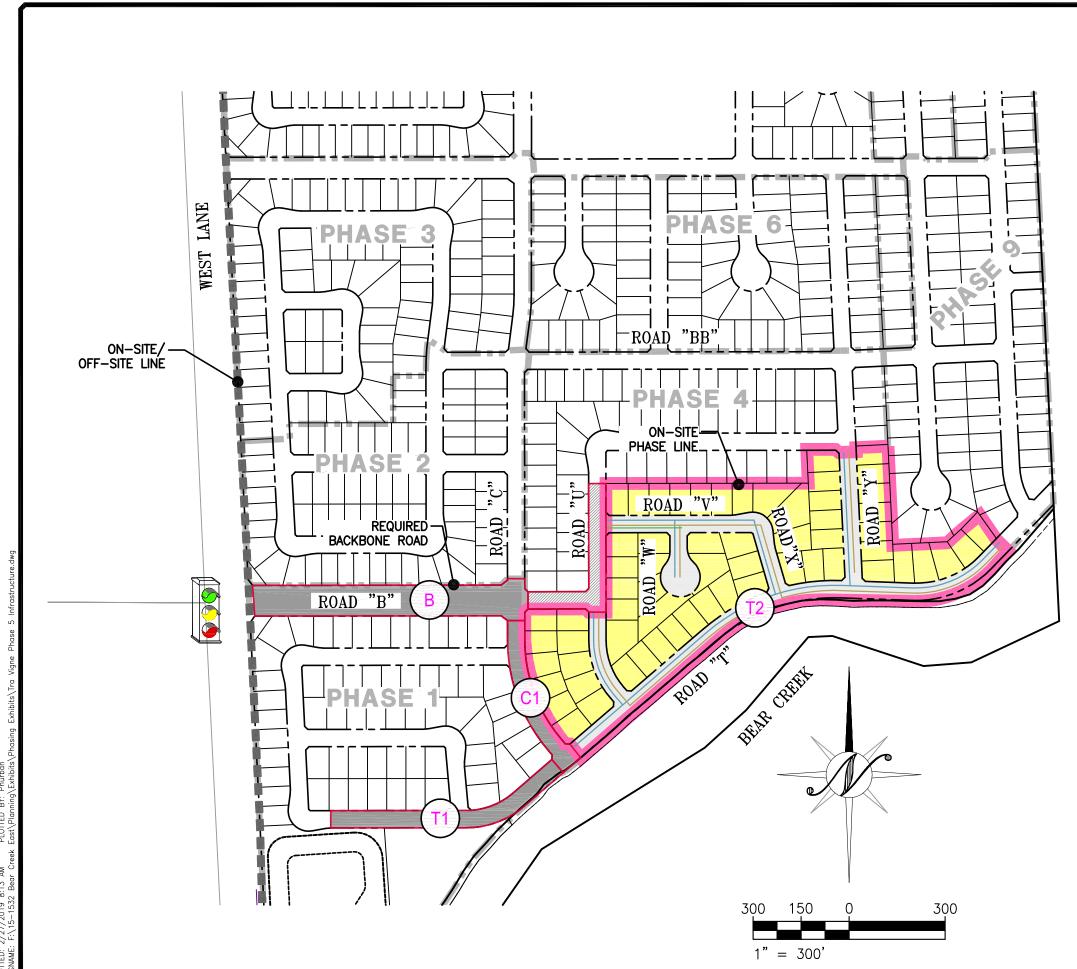
EX 6.5 TRA VIGNE PHASE 5 **INFRASTRUCTURE**

FEBRUARY 27, 2019

LEGEND



PRODUCT TYPE	5,000 SF	5,500 SF	6,000 SF	TOTAL
PHASE 5		1	57	57
PHASE 5 ROADS				
BACKBONE ROADS		T1 SEI	E EXHIBIT	5.1
SEPARATE PHASE IN-TRACT ROADS		see exh	IIBIT 6.4	





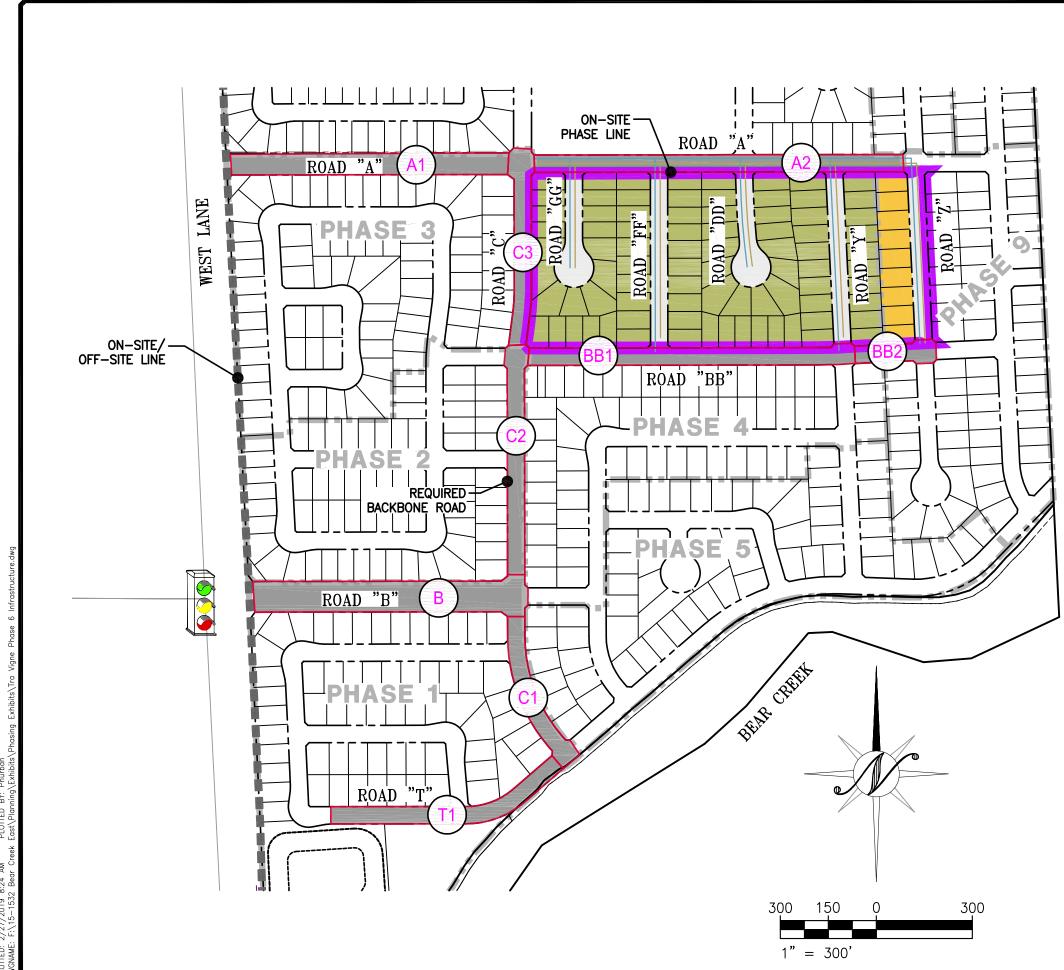
EX 6.6 TRA VIGNE PHASE 6 **INFRASTRUCTURE**

FEBRUARY 27, 2019

LEGEND

WATER MAIN SEWER MAIN STORM MAIN

PRODUCT TYPE	5,000 SF	5,500 SF	6,000 SF	TOTAL
PHASE 6	82	1	1	82
PHASE 6a	1	9	1	9
PHASE 6 ROADS				
BACKBONE ROADS		T1 SE	e exhibit	5.1
SEPARATE PHASE IN-TRACT ROADS				





EX 6.7

FEBRUARY 27, 2019

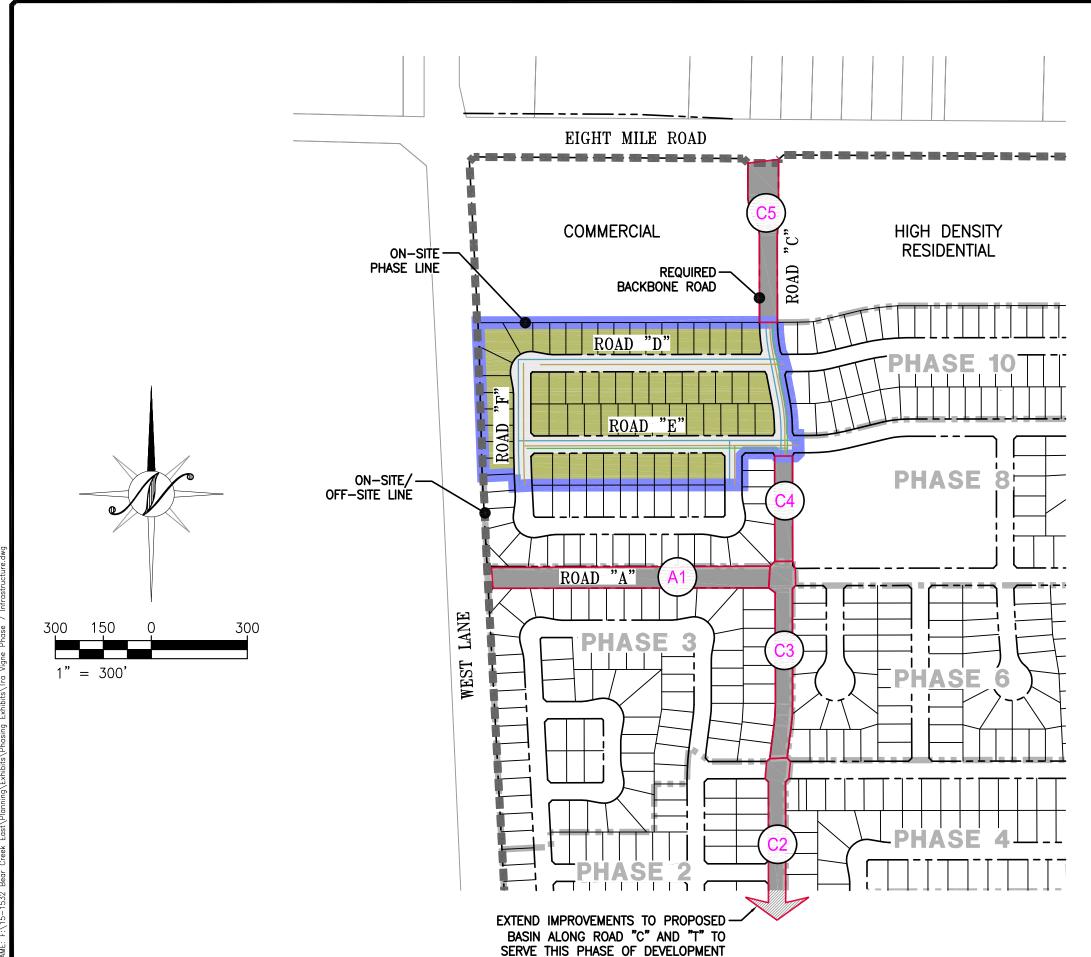
TRA VIGNE

PHASE 7

LEGEND

WATER MAIN
SEWER MAIN
STORM MAIN

PRODUCT TYPE	5,000 SF	5,500 SF	6,000 SF	TOTAL
PHASE 7	62	1	1	62
PHASE 7 ROADS				
BACKBONE ROADS		T1 SE	e exhibit	5.1
SEPARATE PHASE IN-TRACT ROADS				





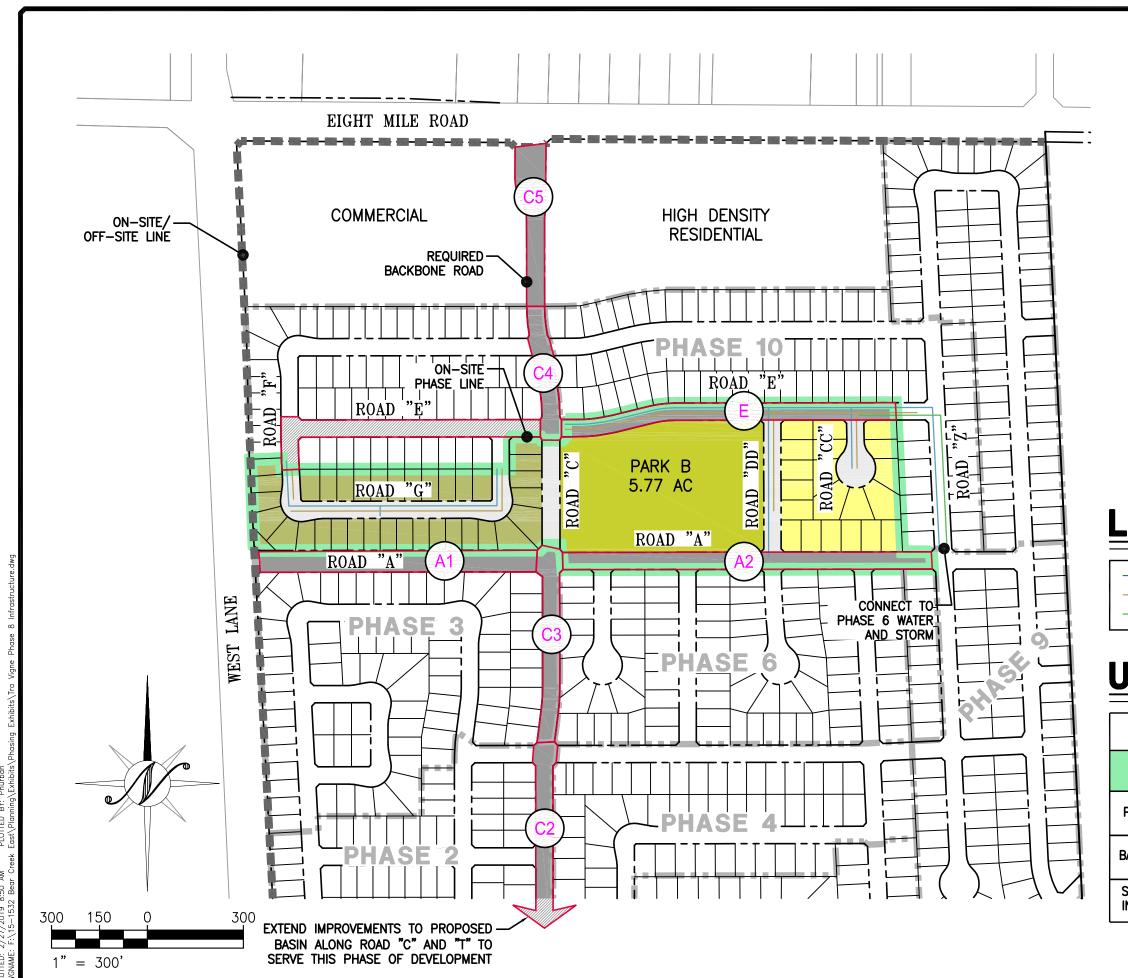
TRA VIGNE PHASE 8 **INFRASTRUCTURE**

FEBRUARY 27, 2019

LEGEND

WATER MAIN SEWER MAIN STORM MAIN

PRODUCT TYPE	5,000 SF	5,500 SF	6,000 SF	TOTAL
PHASE 8	34	1	20	54
PHASE 8 ROADS				
BACKBONE ROADS		T1 SE	E EXHIBIT	5.1
SEPARATE PHASE IN-TRACT ROADS		SEE EXI	HBIT 6.7	





EX 6.9 TRA VIGNE PHASE 9 **INFRASTRUCTURE**

FEBRUARY 27, 2019

LEGEND



UNIT DISTRIBUTION

PRODUCT TYPE	5,000 SF	5,500 SF	6,000 SF	TOTAL
PHASE 9	1	62	1	62
PHASE 9 ROADS				
BACKBONE ROADS	T1 SEE EXHIBIT 5.1		5.1	
SEPARATE PHASE IN-TRACT ROADS				





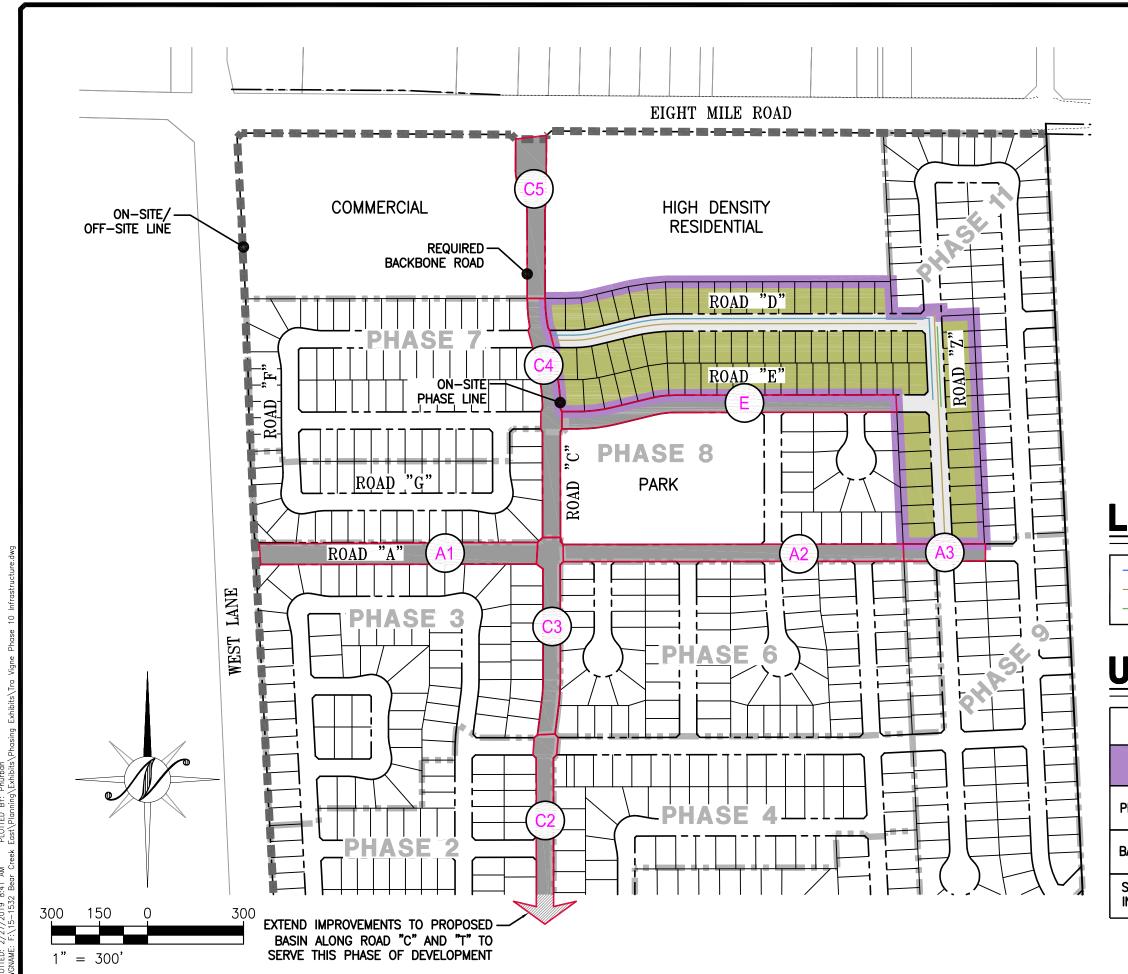
EX 6.10
TRA VIGNE
PHASE 10
INFRASTRUCTURE

FEBRUARY 27, 2019

LEGEND

WATER MAIN
SEWER MAIN
STORM MAIN

PRODUCT TYPE	5,000 SF	5,500 SF	6,000 SF	TOTAL
PHASE 10	85	1	1	85
PHASE 10 ROADS				
BACKBONE ROADS		T1 SEI	E EXHIBIT	5.1
SEPARATE PHASE IN-TRACT ROADS				





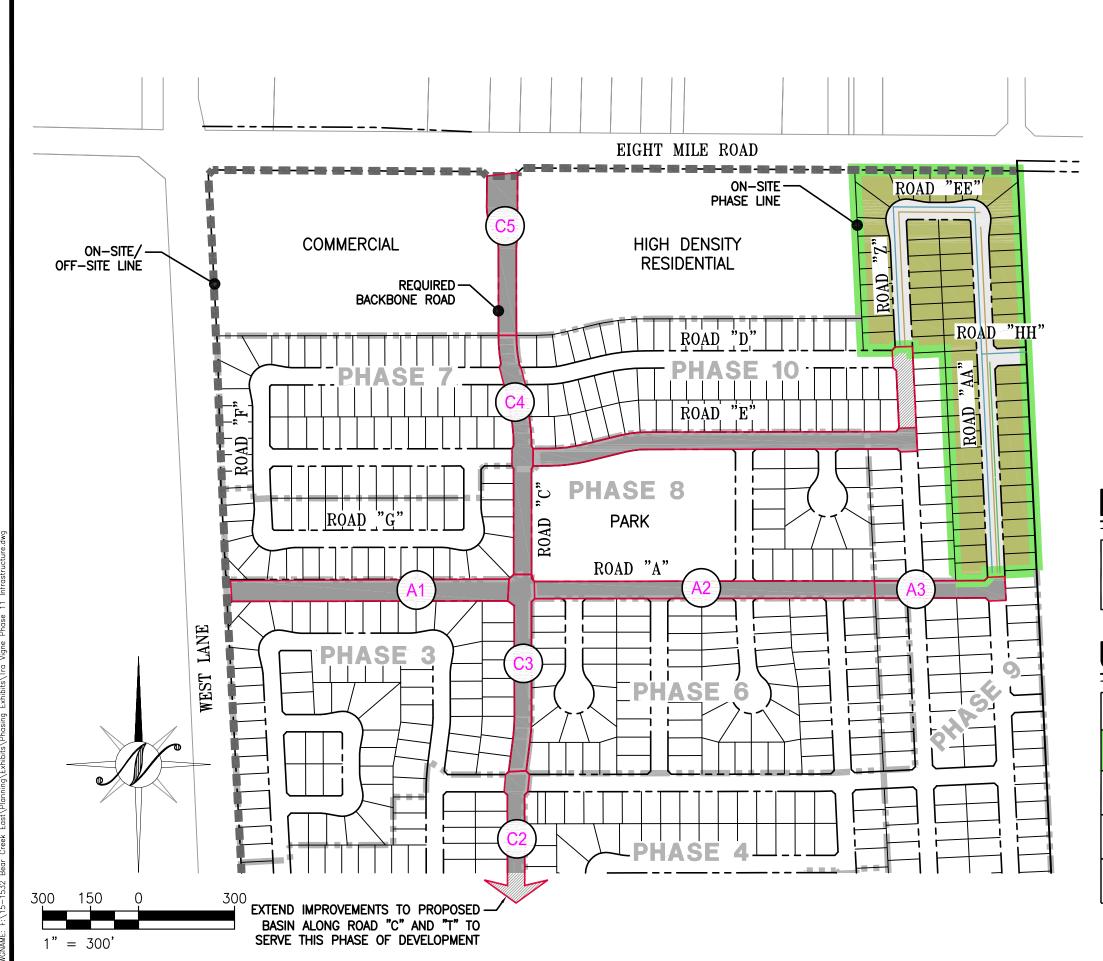
EX 6.11
TRA VIGNE
PHASE 11
INFRASTRUCTURE

FEBRUARY 27, 2019

LEGEND

WATER MAIN
SEWER MAIN
STORM MAIN

PRODUCT TYPE	5,000 SF	5,500 SF	6,000 SF	TOTAL
PHASE 11	67	1	I	67
PHASE 11 ROADS				
BACKBONE ROADS		T1 SEI	E EXHIBIT	5.1
SEPARATE PHASE IN-TRACT ROADS		see exh	IBIT 6.10	



Modesto, CA 95354

(209) 524-3526 Fax



EXTEND IMPROVEMENTS TO PROPOSED BASIN ALONG ROAD "C" AND "T" TO SERVE THIS PHASE OF DEVELOPMENT

1" = 300'

Engineering Group, Inc.

• CIVIL ENGINEERING • SURVEYING • PLANNING •

620 12 th Street

(209) 524-3525 Phone

EX 6.12
TRA VIGNE
PHASE 12
INFRASTRUCTURE

FEBRUARY 27, 2019

NOTE

IF MULTI-FAMILY/ COMMERCIAL SITES ARE DEVELOPED FIRST, NECESSARY EIGHT MILE ROAD AND WEST LANE ROADWAY AND INFRASTRUCTURE IMPROVEMENTS ARE REQUIRED.

LAND DISTRIBUTION

PRODUCT TYPE	COMMERCIAL (CM)	MULTI-FAMILY (MF)
UNIT COUNT		340
BACKBONE ROADS	T1 SEE	EXHIBIT 5.1
SEPARATE PHASE IN-TRACT ROADS		



EX 7.1 TRA VIGNE EAST PHASE 1 INFRASTRUCTURE

FEBRUARY 27, 2019

LEGEND

WATER MAIN
SEWER MAIN
STORM MAIN

UNIT DISTRIBUTION

PRODUCT TYPE	5,000 SF	5,500 SF	6,000 SF	TOTAL	
PHASE 1	109	1	_	109	
PHASE 1 ROADS					
BACKBONE ROADS	E1 SEE EXHIBIT 5.1				
SEPARATE PHASE IN-TRACT ROADS					







EX 7.2 TRA VIGNE EAST PHASE 2 INFRASTRUCTURE

FEBRUARY 27, 2019

LEGEND

WATER MAIN
SEWER MAIN
STORM MAIN

UNIT DISTRIBUTION

5,000 SF	5,500 SF	6,000 SF	TOTAL	
-	102	1	102	
E1 SEE EXHIBIT 5.1				
		SF SF - 102	SF SF SF - 102 -	





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EX 7.3
TRA VIGNE EAST
PHASE 3
INFRASTRUCTURE

FEBRUARY 27, 2019

LEGEND

WATER MAIN
SEWER MAIN
STORM MAIN

150

UNIT DISTRIBUTION

PRODUCT TYPE	5,000 SF	5,500 SF	6,000 SF	TOTAL
PHASE 3	-	_	93	93
PHASE 3 ROADS				
BACKBONE ROADS	E1 SEE EXHIBIT 5.1			
SEPARATE PHASE IN-TRACT ROADS				

