民	FRAYJI	
G	DESIGN GROUP	

	ate Route 193 7				
tem #	Description	Unit	Quantity	Unit Price	Amount
Backbon	e Roadway System				
1	Mobilization	JOB	1	\$50,000.00	\$50,00
2	Excavation	CY	1100	\$30,000.00	\$30,00
3	4" AB (Under Curb & Gutter and Sidewalk)	SF	0	\$1.80	<i>,,,</i> ,
4	16" AB (assumes a Traffic Index of 9)	SF	0	\$2.25	
5	5" AC (assumes a Traffic Index of 9)	SF	0	\$2.70	:
6	18" AB (assumes a Traffic Index of 11)	SF	5916	\$2.50	\$14,8
7	7" AC (assumes a Traffic Index of 11)	SF	5916	\$4.00	\$23,7
8	Decomposed Granite Trail (4' width, 4" thick)	SF	0	\$1.80	
9	4" AB Shoulder (2' width)	SF	1520	\$1.20	\$1,8
10	Subgrade Street Prep (Street)	SF	5916	\$0.25	\$1,5
11	Subgrade Prep (Curb & Gutter)	SF	0	\$0.30	
12	Subgrade Prep (AB Shoulder)	SF	1520	\$0.30	\$5
13	Subgrade Prep (DG Trail)	SF	0	\$0.30	
14	Signing and Striping (36' ROW)*	LF	760	\$15.00	\$11,4
15	Traffic Signals	EA	0	\$320,000.00	
16	Future Traffic Signal	EA	0	\$275,000.00	
17	Signalized Intersection	EA SF	0	\$900,000.00	
18 19	Sidewalk, Concrete Roundabout	EA	0	\$6.00 \$100,000.00	
20	Joint Trench	LF	0	\$100,000.00	
20	Underground Existing Utilities in Joint Trench	LF	0	\$360.00	
22	Type 5 Curb Median	LF	760	\$12.00	\$9,1
23	Median Landscaping	SF	4560	\$4.50	\$20,5
24	Frontage Landscaping	SF	0	\$4.50	φ20)5
25	Signal Conduit and Wiring	EA	0	\$75,000.00	
26	Curb and Gutter	LF	0	\$27.00	
27	AC Driveway (Per Approx. 12' wide)	EA	0	\$960.00	
28	Irrigation Sleeves	LF	0	\$15.00	
29	Street Lights (every 150 LF)	EA	5	\$6,000.00	\$30,0
30	Sawcut and Pavement Removal Median	LF	1520	\$20.00	\$30,4
31	Sawcut and Pavement Removal	LF	760	\$3.00	\$2,3
32	Reconstruct Ditches	LF	760	\$3.00	\$2,3
33	Erosion Control	LF	760	\$25.00	\$19,0
34	ROW Acquisition (Ferrari Ranch Road) **	LS	0	\$100,000.00	
35	ROW Acquisition (Oak Tree Lane - North) **	LS	0	\$500,000.00	
36	ROW Acquisition (Oak Tree Lane - South) ***	LS	0	\$50,000.00	
37	Grind and Remove Pavement	SF	0	\$3.00	672.0
38	Grind and Overlay	SF	36480	\$2.00	\$73,0
39	Retrofit Utilities	EA EA	0	\$3,000.00	
40 41	Dewatering - Ferrari Ranch Road Dewatering - Oak Tree near So. Ingram Slough	EA	0	\$25,000.00 \$50,000.00	
41	Dewatering - Oak Tree near new lake	EA	0	\$75,000.00	
42	Golf Course Fence and Netting	LF	0	\$133.00	
45	Split Rail Fencing	LF	0	\$155.00	
45	FRR Supplemental Topo + Aerial Topo	JOB	0	\$12,500.00	
45	Remediation Trench and Monitoring	JOB	0	\$1,000,000.00	
47	Traffic Control	JOB	1	\$100,000.00	\$100,0
48	Traffic Control Oak Tree Lane	JOB	0	\$250,000.00	φ±00,0
49	Bridge (at Auburn Ravine on Oak Tree Lane)	EA	0	\$5,500,000.00	
-	Construction Total:		· · · ·	, . , ,	\$398,0

\* Cost per linear foot of roadway.

\*\* ROW Acquisition includes mapping, purchasing the land,

Contingency Based upon Hard Costs (15%): \$59,700

Soft Costs Contingency (17%): \$67,700

\*\*\* ROW Acquisition includes mapping.

TOTAL CIRCULATION \$525,400

民	FRAY	Ι
G	DESIGN GRO	UP

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tem #	Description	Unit	Quantity	Unit Price	Amount
Backbo	ne Roadway System				
1	Mobilization	JOB	1	\$50,000.00	\$50,00
2	Excavation	CY	0	\$30,000.00	
3	4" AB (Under Curb & Gutter and Sidewalk)	SF	29160	\$1.80	\$52,50
4	16" AB (assumes a Traffic Index of 9)	SF	58320	\$2.25	\$131,20
5	5" AC (assumes a Traffic Index of 9)	SF	58320	\$2.70	\$157,50
6	18" AB (assumes a Traffic Index of 11)	SF	0	\$2.50	÷157,50
7	7" AC (assumes a Traffic Index of 11)	SF	0	\$4.00	
8	Decomposed Granite Trail (4' width, 4" thick)	SF	0	\$1.80	
9	4" AB Shoulder (2' width)	SF	0	\$1.20	
10	Subgrade Street Prep (Street)	SF	58320	\$0.25	\$14,6
11	Subgrade Prep (Curb & Gutter)	SF	29160	\$0.30	\$8,7
12	Subgrade Prep (AB Shoulder)	SF	0	\$0.30	<i>ç</i> ,,,,
13	Subgrade Prep (DG Trail)	SF	0	\$0.30	
14	Signing and Striping (36' ROW)*	LF	1620	\$15.00	\$24,3
15	Traffic Signals	EA	0	\$320,000.00	+
16	Future Traffic Signal	EA	0	\$275,000.00	
17	Signalized Intersection	EA	0	\$900,000.00	
18	Sidewalk, Concrete	SF	19440	\$6.00	\$116,6
19	Roundabout	EA	0	\$100,000.00	1 -7-
20	Joint Trench	LF	1620	\$115.00	\$186,3
21	Underground Existing Utilities in Joint Trench	LF	0	\$360.00	1 / -
22	Type 5 Curb Median	LF	3240	\$12.00	\$38,9
23	Median Landscaping	SF	19440	\$4.50	\$87,5
24	Frontage Landscaping	SF	0	\$4.50	
25	Signal Conduit and Wiring	EA	0	\$75,000.00	
26	Curb and Gutter	LF	3240	\$27.00	\$87,5
27	AC Driveway (Per Approx. 12' wide)	EA	0	\$960.00	
28	Irrigation Sleeves	LF	0	\$15.00	
29	Street Lights (every 150 LF)	EA	11	\$6,000.00	\$66,0
30	Sawcut and Pavement Removal Median	LF	0	\$20.00	
31	Sawcut and Pavement Removal	LF	0	\$3.00	
32	Reconstruct Ditches	LF	0	\$3.00	
33	Erosion Control	LF	1620	\$25.00	\$40,5
34	ROW Acquisition (Ferrari Ranch Road) **	LS	0	\$100,000.00	
35	ROW Acquisition (Oak Tree Lane - North) **	LS	0	\$500,000.00	
36	ROW Acquisition (Oak Tree Lane - South) ***	LS	0	\$50,000.00	
37	Grind and Remove Pavement	SF	0	\$3.00	
38	Grind and Overlay	SF	0	\$2.00	
39	Retrofit Utilities	EA	0	\$3,000.00	
40	Dewatering - Ferrari Ranch Road	EA	0	\$25,000.00	
41	Dewatering - Oak Tree near So. Ingram Slough	EA	0	\$50,000.00	
42	Dewatering - Oak Tree near new lake	EA	0	\$75,000.00	
43	Golf Course Fence and Netting	LF	0	\$133.00	
44	Split Rail Fencing	LF	0	\$45.00	
45	FRR Supplemental Topo + Aerial Topo	JOB	0	\$12,500.00	
46	Remediation Trench and Monitoring	JOB	0	\$1,000,000.00	
47	Traffic Control	JOB	0	\$100,000.00	
48	Traffic Control Oak Tree Lane	JOB	0	\$250,000.00	

\*\*\* ROW Acquisition includes mapping.

Contingency Based upon Hard Costs (15%): Soft Costs Contingency (17%):

\$159,300 \$180,600

\*\* ROW Acquisition includes mapping, purchasing the land,

TOTAL CIRCULATION \$1,402,000

民	FRAY	Ι
G	DESIGN GRO	UP

	orth South Collector 1		-	-	
tem #	Description	Unit	Quantity	Unit Price	Amount
Backbon	e Roadway System				
4		100		¢50,000,00	¢50.00
1 2	Mobilization Excavation	JOB	1	\$50,000.00	\$50,00
3		CY SF		\$7.00	\$25,60
4	4" AB (Under Curb & Gutter and Sidewalk) 16" AB (assumes a Traffic Index of 9)	SF	14240 32040	\$1.80 \$2.25	\$72,10
5	5" AC (assumes a Traffic Index of 9)	SF	32040	\$2.23	\$86,50
6	18" AB (assumes a Traffic Index of 11)	SF	0	\$2.70	
7	7" AC (assumes a Traffic Index of 11)	SF	0	\$4.00	
8	Decomposed Granite Trail (4' width, 4" thick)	SF	0	\$1.80	
9	4" AB Shoulder (2' width)	SF	0	\$1.80	
10	Subgrade Street Prep (Street)	SF	32040	\$0.25	\$8,00
10	Subgrade Prep (Curb & Gutter)	SF	14240	\$0.30	\$4,3
12	Subgrade Prep (AB Shoulder)	SF	0	\$0.30	¢ 1,5
13	Subgrade Prep (DG Trail)	SF	0	\$0.30	
14	Signing and Striping (36' ROW)*	LF	890	\$15.00	\$13,4
15	Traffic Signals	EA	0	\$320,000.00	+, -
16	Future Traffic Signal	EA	0	\$275,000.00	
17	Signalized Intersection	EA	0	\$900,000.00	
18	Sidewalk, Concrete	SF	8900	\$6.00	\$53,4
19	Roundabout	EA	0	\$100,000.00	
20	Joint Trench	LF	890	\$115.00	\$102,4
21	Underground Existing Utilities in Joint Trench	LF	0	\$360.00	
22	Type 5 Curb Median	LF	1780	\$12.00	\$21,4
23	Median Landscaping	SF	10680	\$4.50	\$48,1
24	Frontage Landscaping	SF	0	\$4.50	
25	Signal Conduit and Wiring	EA	0	\$75,000.00	
26	Curb and Gutter	LF	1780	\$27.00	\$48,1
27	AC Driveway (Per Approx. 12' wide)	EA	0	\$960.00	
28	Irrigation Sleeves	LF	0	\$15.00	
29	Street Lights (every 150 LF)	EA	6	\$6,000.00	\$36,0
30	Sawcut and Pavement Removal Median	LF	0	\$20.00	
31	Sawcut and Pavement Removal	LF	0	\$3.00	
32	Reconstruct Ditches	LF	0	\$3.00	
33	Erosion Control	LF	890	\$25.00	\$22,3
34	ROW Acquisition (Ferrari Ranch Road) **	LS	0	\$100,000.00	
35	ROW Acquisition (Oak Tree Lane - North) **	LS	0	\$500,000.00	
36	ROW Acquisition (Oak Tree Lane - South) ***	LS	0	\$50,000.00	
37	Grind and Remove Pavement	SF	0	\$3.00	
38	Grind and Overlay	SF	0	\$2.00	
39	Retrofit Utilities	EA	0	\$3,000.00	
40	Dewatering - Ferrari Ranch Road	EA	0	\$25,000.00	
41	Dewatering - Oak Tree near So. Ingram Slough	EA	0	\$50,000.00	
42	Dewatering - Oak Tree near new lake	EA	0	\$75,000.00	
43	Golf Course Fence and Netting	LF	0	\$133.00	
44	Split Rail Fencing	LF	0	\$45.00	
45	FRR Supplemental Topo + Aerial Topo	JOB	0	\$12,500.00	
46	Remediation Trench and Monitoring	JOB	0	\$1,000,000.00	
47	Traffic Control	JOB	0	\$100,000.00	
48	Traffic Control Oak Tree Lane	JOB	0	\$250,000.00	
49	Bridge (at Auburn Ravine on Oak Tree Lane)	EA	0	\$5,500,000.00	

Contingency Based upon Hard Costs (15%): Soft Costs Contingency (17%): \$88,700 \$100,600

\*\* ROW Acquisition includes mapping, purchasing the land,

\*\*\* ROW Acquisition includes mapping.

TOTAL CIRCULATION \$780,900

Date: 8/9/2016

民	FRAY DESIGN GRO	II
G	DESIGN GRO	UP

Item # Backbo	Description	Unit	Quantity	Linit Duine	A
Backbo			Quantity	Unit Price	Amount
	ne Roadway System				
1	Mobilization	JOB	1	\$50,000.00	\$50,00
2	Excavation	CY	0	\$30,000.00	
3	4" AB (Under Curb & Gutter and Sidewalk)	SF	40160	\$1.80	\$72,30
4	16" AB (assumes a Traffic Index of 9)	SF	90360	\$2.25	\$203,40
5	5" AC (assumes a Traffic Index of 9)	SF	90360	\$2.70	\$243,90
6	18" AB (assumes a Traffic Index of 11)	SF	0	\$2.50	+=,.
7	7" AC (assumes a Traffic Index of 11)	SF	0	\$4.00	
8	Decomposed Granite Trail (4' width, 4" thick)	SF	0	\$1.80	
9	4" AB Shoulder (2' width)	SF	0	\$1.20	
10	Subgrade Street Prep (Street)	SF	90360	\$0.25	\$22,5
11	Subgrade Prep (Curb & Gutter)	SF	40160	\$0.30	\$12,1
12	Subgrade Prep (AB Shoulder)	SF	0	\$0.30	+
13	Subgrade Prep (DG Trail)	SF	0	\$0.30	
14	Signing and Striping (36' ROW)*	LF	2510	\$15.00	\$37,6
15	Traffic Signals	EA	0	\$320,000.00	1- /-
16	Future Traffic Signal	EA	0	\$275,000.00	
17	Signalized Intersection	EA	0	\$900,000.00	
18	Sidewalk, Concrete	SF	25100	\$6.00	\$150,6
19	Roundabout	EA	1	\$100,000.00	\$100,0
20	Joint Trench	LF	2510	\$115.00	\$288,6
21	Underground Existing Utilities in Joint Trench	LF	0	\$360.00	
22	Type 5 Curb Median	LF	0	\$12.00	
23	Median Landscaping	SF	0	\$4.50	
24	Frontage Landscaping	SF	0	\$4.50	
25	Signal Conduit and Wiring	EA	0	\$75,000.00	
26	Curb and Gutter	LF	5020	\$27.00	\$135,5
27	AC Driveway (Per Approx. 12' wide)	EA	0	\$960.00	
28	Irrigation Sleeves	LF	0	\$15.00	
29	Street Lights (every 150 LF)	EA	17	\$6,000.00	\$102,0
30	Sawcut and Pavement Removal Median	LF	0	\$20.00	
31	Sawcut and Pavement Removal	LF	0	\$3.00	
32	Reconstruct Ditches	LF	0	\$3.00	
33	Erosion Control	LF	2510	\$25.00	\$62,7
34	ROW Acquisition (Ferrari Ranch Road) **	LS	0	\$100,000.00	
35	ROW Acquisition (Oak Tree Lane - North) **	LS	0	\$500,000.00	
36	ROW Acquisition (Oak Tree Lane - South) ***	LS	0	\$50,000.00	
37	Grind and Remove Pavement	SF	0	\$3.00	
38	Grind and Overlay	SF	0	\$2.00	
39	Retrofit Utilities	EA	0	\$3,000.00	
40	Dewatering - Ferrari Ranch Road	EA	0	\$25,000.00	
41	Dewatering - Oak Tree near So. Ingram Slough	EA	0	\$50,000.00	
42	Dewatering - Oak Tree near new lake	EA	0	\$75,000.00	
43	Golf Course Fence and Netting	LF	0	\$133.00	
44	Split Rail Fencing	LF	0	\$45.00	
45	FRR Supplemental Topo + Aerial Topo	JOB	0	\$12,500.00	
46	Remediation Trench and Monitoring	JOB	0	\$1,000,000.00	
47	Traffic Control	JOB	0	\$100,000.00	
48	Traffic Control Oak Tree Lane	JOB	0	\$250,000.00	
	Bridge (at Auburn Ravine on Oak Tree Lane)	EA	0	\$5,500,000.00	

\*\*\* ROW Acquisition includes mapping.

Contingency Based upon Hard Costs (15%): Soft Costs Contingency (17%): \$222,300 \$251,700

\*\* ROW Acquisition includes mapping, purchasing the land,

TOTAL CIRCULATION \$1,955,200

民	FRAYJI
G	DESIGN GROUP

om #	iberty Lane 1	l Init	Quantity	Linit Daine	Amount
em #	Description	Unit	Quantity	Unit Price	Amount
ackbon	e Roadway System				
1	Mobilization	JOB	1	\$50,000.00	\$50,00
2	Excavation	CY	0	\$7.00	<u>, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>
3	4" AB (Under Curb & Gutter and Sidewalk)	SF	0	\$1.80	
4	16" AB (assumes a Traffic Index of 9)	SF	32280	\$2.25	\$72,6
5	5" AC (assumes a Traffic Index of 9)	SF	32280	\$2.70	\$87,2
6	18" AB (assumes a Traffic Index of 11)	SF	0	\$2.50	
7	7" AC (assumes a Traffic Index of 11)	SF	0	\$4.00	
8	Decomposed Granite Trail (4' width, 4" thick)	SF	10760	\$1.80	\$19,4
9	4" AB Shoulder (2' width)	SF	0	\$1.20	
10	Subgrade Street Prep (Street)	SF	32280	\$0.25	\$8,1
11	Subgrade Prep (Curb & Gutter)	SF	0	\$0.30	
12	Subgrade Prep (AB Shoulder)	SF	0	\$0.30	
13	Subgrade Prep (DG Trail)	SF	10760	\$0.30	\$3,2
14	Signing and Striping (36' ROW)*	LF	0	\$15.00	
15	Traffic Signals	EA	0	\$320,000.00	
16	Future Traffic Signal	EA	0	\$275,000.00 \$900,000.00	
17 18	Signalized Intersection Sidewalk, Concrete	EA SF	0	\$900,000.00	
18	Roundabout	EA	0	\$100,000.00	
20	Joint Trench	LF	1345	\$100,000.00	\$154,7
20	Underground Existing Utilities in Joint Trench	LF	0	\$360.00	J134,7
22	Type 5 Curb Median	LF	0	\$12.00	
23	Median Landscaping	SF	0	\$4.50	
24	Frontage Landscaping	SF	0	\$4.50	
25	Signal Conduit and Wiring	EA	0	\$75,000.00	
26	Curb and Gutter	LF	0	\$27.00	
27	AC Driveway (Per Approx. 12' wide)	EA	0	\$960.00	
28	Irrigation Sleeves	LF	0	\$15.00	
29	Street Lights (every 150 LF)	EA	9	\$6,000.00	\$54,0
30	Sawcut and Pavement Removal Median	LF	0	\$20.00	
31	Sawcut and Pavement Removal	LF	0	\$3.00	
32	Reconstruct Ditches	LF	0	\$3.00	
33	Erosion Control	LF	1345	\$25.00	\$33,6
34	ROW Acquisition (Ferrari Ranch Road) **	LS	0	\$100,000.00	
35	ROW Acquisition (Oak Tree Lane - North) **	LS	0	\$500,000.00	
36	ROW Acquisition (Oak Tree Lane - South) ***	LS	0	\$50,000.00	
37	Grind and Remove Pavement	SF SF	0	\$3.00	
38 39	Grind and Overlay Retrofit Utilities	EA	0	\$2.00 \$3,000.00	
40	Dewatering - Ferrari Ranch Road	EA	0	\$25,000.00	
40	Dewatering - Oak Tree near So. Ingram Slough	EA	0	\$50,000.00	
42	Dewatering - Oak Tree near new lake	EA	0	\$75,000.00	
43	Golf Course Fence and Netting	LF	0	\$133.00	
43	Split Rail Fencing	LF	0	\$133.00	
45	FRR Supplemental Topo + Aerial Topo	JOB	0	\$12,500.00	
46	Remediation Trench and Monitoring	JOB	0	\$1,000,000.00	
47	Traffic Control	JOB	1	\$100,000.00	\$100,0
48	Traffic Control Oak Tree Lane	JOB	0	\$250,000.00	<i></i>
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\* Cost per linear foot of roadway.

\*\* ROW Acquisition includes mapping, purchasing the land,

**Contingency Based upon Hard Costs (15%):** \$87,400

Soft Costs Contingency (17%): \$99,100

\*\*\* ROW Acquisition includes mapping.

TOTAL CIRCULATION \$769,300

民	FRAYJ DESIGN GROU	Ι
G	DESIGN GROU	IP

Item #	ummary Description	Unit	Quantity	Unit Price	Amount
Backbon	e Roadway System				
1	Mobilization	JOB	4	\$50,000.00	\$200,00
2	Excavation	CY	2160	\$7.00	\$15,10
3	4" AB (Under Curb & Gutter and Sidewalk)	SF	84980	\$1.80	\$153,00
4	16" AB (assumes a Traffic Index of 9)	SF	178920	\$2.25	\$402,60
5	5" AC (assumes a Traffic Index of 9)	SF	178920	\$2.70	\$483,10
6	18" AB (assumes a Traffic Index of 11)	SF	29163	\$2.50	\$72,90
7	7" AC (assumes a Traffic Index of 11)	SF	29163	\$4.00	\$116,70
8	Decomposed Granite Trail (4' width, 4" thick)	SF	0	\$1.80	
9	4" AB Shoulder (2' width)	SF	12520	\$1.20	\$15,00
10	Subgrade Street Prep (Street)	SF	208083	\$0.25	\$52,00
11	Subgrade Prep (Curb & Gutter)	SF	84980	\$0.30	\$25,50
12	Subgrade Prep (AB Shoulder)	SF	11440	\$0.30	\$3,40
13	Subgrade Prep (DG Trail)	SF	0	\$0.30	6127.00
14	Signing and Striping (36' ROW)*	LF	8520	\$15.00	\$127,80
15 16	Traffic Signals	EA EA	0	\$320,000.00	
16	Future Traffic Signal Signalized Intersection	EA	0	\$275,000.00 \$900,000.00	
17	Sidewalk, Concrete	SF	55160	\$900,000.00	\$331,0
18	Roundabout	EA	1	\$100,000.00	\$100,0
20	Joint Trench	LF	2940	\$100,000.00	\$338,10
20	Underground Existing Utilities in Joint Trench	LF	2540	\$360.00	,550,1
22	Type 5 Curb Median	LF	8080	\$12.00	\$97,0
23	Median Landscaping	SF	60570	\$4.50	\$272,60
24	Frontage Landscaping	SF	0	\$4.50	. ,
25	Signal Conduit and Wiring	EA	0	\$75,000.00	
26	Curb and Gutter	LF	9940	\$27.00	\$268,4
27	AC Driveway (Per Approx. 12' wide)	EA	6	\$960.00	\$5,8
28	Irrigation Sleeves	LF	0	\$15.00	
29	Street Lights (every 150 LF)	EA	74	\$6,000.00	\$444,0
30	Sawcut and Pavement Removal Median	LF	0	\$20.00	
31	Sawcut and Pavement Removal	LF	6260	\$3.00	\$18,8
32	Reconstruct Ditches	LF	4730	\$3.00	\$14,2
33	Erosion Control	LF	11230	\$25.00	\$280,8
34	ROW Acquisition (Ferrari Ranch Road) **	LS	0	\$100,000.00	
35	ROW Acquisition (Oak Tree Lane - North) **	LS	0	\$500,000.00	
36	ROW Acquisition (Oak Tree Lane - South) ***	LS	0	\$50,000.00	
37	Grind and Remove Pavement	SF	0	\$3.00	¢
38	Grind and Overlay	SF	300480	\$2.00	\$601,0
39	Retrofit Utilities Dewatering - Ferrari Ranch Road	EA EA	4	\$3,000.00	\$12,0
40 41	Dewatering - Ferran Ranch Road Dewatering - Oak Tree near So. Ingram Slough	EA	0	\$25,000.00 \$50,000.00	
41	Dewatering - Oak Tree near new lake	EA	0	\$75,000.00	
42	Golf Course Fence and Netting	LF	0	\$133.00	
45	Split Rail Fencing	LF	5350	\$155.00	\$240,8
45	FRR Supplemental Topo + Aerial Topo	JOB	0	\$12,500.00	Ş240,6
46	Remediation Trench and Monitoring	JOB	0	\$1,000,000.00	
40	Traffic Control	JOB	1	\$100,000.00	\$100,0
48	Traffic Control Oak Tree Lane	JOB	0	\$250,000.00	
49	Bridge (at Auburn Ravine on Oak Tree Lane)	EA	0	\$5,500,000.00	
	Construction Total:		0	<i>40,000,000.00</i>	\$4,791,6

\* Cost per linear foot of roadway.

\*\* ROW Acquisition includes mapping, purchasing the land,

 Contingency Based upon Hard Costs (15%):
 \$718,700

 Soft Costs Contingency (17%):
 \$814,600

\*\*\* ROW Acquisition includes mapping.

TOTAL CIRCULATION \$6,324,900

	<b>B</b>	11.14			
em #	Description	Unit	Quantity	Unit Price	Amount
ackbor	ne Roadway System				
ackbui					
1	Mobilization	JOB	0.25	\$50,000.00	\$12,5
2	Excavation	CY	1073	\$7.00	\$7,5
3	4" AB (Under Curb & Gutter and Sidewalk)	SF	0	\$1.80	<i><i></i></i>
4	16" AB (assumes a Traffic Index of 9)	SF	0	\$2.25	
5	5" AC (assumes a Traffic Index of 9)	SF	0	\$2.70	
6	18" AB (assumes a Traffic Index of 11)	SF	14491	\$2.50	\$36,2
7	7" AC (assumes a Traffic Index of 11)	SF	14491	\$4.00	\$58,1
8	Decomposed Granite Trail (4' width, 4" thick)	SF	0	\$1.80	+==)=
9	4" AB Shoulder (2' width)	SF	3880	\$1.20	\$4,7
10	Subgrade Street Prep (Street)	SF	14491	\$0.25	\$3,6
11	Subgrade Prep (Curb & Gutter)	SF	0	\$0.30	
12	Subgrade Prep (AB Shoulder)	SF	3880	\$0.30	\$1,1
13	Subgrade Prep (DG Trail)	SF	0	\$0.30	. ,
14	Signing and Striping (36' ROW)*	LF	970	\$15.00	\$14,6
15	Traffic Signals	EA	0	\$320,000.00	
16	Future Traffic Signal	EA	0	\$275,000.00	
17	Signalized Intersection	EA	0	\$900,000.00	
18	Sidewalk, Concrete	SF	0	\$6.00	
19	Roundabout	EA	0	\$100,000.00	
20	Joint Trench	LF	0	\$115.00	
21	Underground Existing Utilities in Joint Trench	LF	0	\$360.00	
22	Type 5 Curb Median	LF	0	\$12.00	
23	Median Landscaping	SF	0	\$4.50	
24	Frontage Landscaping	SF	0	\$4.50	
25	Signal Conduit and Wiring	EA	0	\$75,000.00	
26	Curb and Gutter	LF	0	\$27.00	
27	AC Driveway (Per Approx. 12' wide)	EA	3	\$960.00	\$2,9
28	Irrigation Sleeves	LF	0	\$15.00	
29	Street Lights (every 150 LF)	EA	13	\$6,000.00	\$78,0
30	Sawcut and Pavement Removal Median	LF	0	\$20.00	
31	Sawcut and Pavement Removal	LF	1940	\$3.00	\$5,8
32	Reconstruct Ditches	LF	1940	\$3.00	\$5,8
33	Erosion Control	LF	1940	\$25.00	\$48,5
34	ROW Acquisition (Ferrari Ranch Road) **	LS	0	\$100,000.00	
35	ROW Acquisition (Oak Tree Lane - North) **	LS	0	\$500,000.00	
36	ROW Acquisition (Oak Tree Lane - South) ***	LS	0	\$50,000.00	
37	Grind and Remove Pavement	SF	0	\$3.00	
38	Grind and Overlay	SF	93120	\$2.00	\$186,2
39	Retrofit Utilities	EA	2	\$3,000.00	\$6,0
40	Dewatering - Ferrari Ranch Road	EA	0	\$25,000.00	
41	Dewatering - Oak Tree near So. Ingram Slough	EA	0	\$50,000.00	
42	Dewatering - Oak Tree near new lake	EA	0	\$75,000.00	
43	Golf Course Fence and Netting	LF	0	\$133.00	
44	Split Rail Fencing	LF	0	\$45.00	
45	FRR Supplemental Topo + Aerial Topo	JOB	0	\$12,500.00	
46	Remediation Trench and Monitoring	JOB	0	\$1,000,000.00	
47	Traffic Control	JOB	0.25	\$100,000.00	\$25,0
48	Traffic Control Oak Tree Lane	JOB	0	\$250,000.00	
49	Bridge (at Auburn Ravine on Oak Tree Lane)	EA	0	\$5,500,000.00	



Contingency Based upon Hard Costs (15%): \$

\$74,500

\* Cost per linear foot of roadway.

 $^{\star\star}$  ROW Acquisition includes mapping, purchasing the land,

Soft Costs Contingency (17%): \$84,400

\*\*\* ROW Acquisition includes mapping.

TOTAL CIRCULATION \$655,400

民	FRAYJI	
G	DESIGN GROUP	

	tate Route 193 9				
tem #	Description	Unit	Quantity	Unit Price	Amount
ackbon	ne Roadway System				
				1	
1	Mobilization	JOB	0.25	\$50,000.00	\$12,50
2	Excavation	CY	343	\$7.00	\$2,40
3	4" AB (Under Curb & Gutter and Sidewalk)	SF	0	\$1.80	
4	16" AB (assumes a Traffic Index of 9)	SF	0	\$2.25	
5	5" AC (assumes a Traffic Index of 9) 18" AB (assumes a Traffic Index of 11)	SF	0	\$2.70	\$11,6
6 7	7" AC (assumes a Traffic Index of 11)	SF SF	4634 4634	\$2.50 \$4.00	\$11,6
8	Decomposed Granite Trail (4' width, 4" thick)	SF	4034	\$1.80	\$19'2
9	4" AB Shoulder (2' width)	SF	1280	\$1.80	\$1,5
10	Subgrade Street Prep (Street)	SF	4634	\$0.25	\$1,2
11	Subgrade Prep (Curb & Gutter)	SF	0	\$0.30	<i>,</i> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
12	Subgrade Prep (AB Shoulder)	SF	1280	\$0.30	\$4
13	Subgrade Prep (DG Trail)	SF	0	\$0.30	+ ·
14	Signing and Striping (36' ROW)*	LF	320	\$15.00	\$4,8
15	Traffic Signals	EA	0	\$320,000.00	
16	Future Traffic Signal	EA	0	\$275,000.00	
17	Signalized Intersection	EA	0	\$900,000.00	
18	Sidewalk, Concrete	SF	0	\$6.00	
19	Roundabout	EA	0	\$100,000.00	
20	Joint Trench	LF	0	\$115.00	
21	Underground Existing Utilities in Joint Trench	LF	0	\$360.00	
22	Type 5 Curb Median	LF	0	\$12.00	
23	Median Landscaping	SF	0	\$4.50	
24	Frontage Landscaping	SF	0	\$4.50	
25	Signal Conduit and Wiring	EA	0	\$75,000.00	
26	Curb and Gutter	LF	0	\$27.00	
27	AC Driveway (Per Approx. 12' wide)	EA	0	\$960.00	
28	Irrigation Sleeves	LF EA	0	\$15.00	624.0
29 30	Street Lights (every 150 LF) Sawcut and Pavement Removal Median	LF	4	\$6,000.00 \$20.00	\$24,0
31	Sawcut and Pavement Removal		640	\$3.00	\$1,9
32	Reconstruct Ditches	LF	640	\$3.00	\$1,5 \$1,9
33	Erosion Control	LF	640	\$25.00	\$16,0
34	ROW Acquisition (Ferrari Ranch Road) **	LS	0.0	\$100,000.00	<i>φ</i> 10)0
35	ROW Acquisition (Oak Tree Lane - North) **	LS	0	\$500,000.00	
36	ROW Acquisition (Oak Tree Lane - South) ***	LS	0	\$50,000.00	
37	Grind and Remove Pavement	SF	0	\$3.00	
38	Grind and Overlay	SF	30720	\$2.00	\$61,4
39	Retrofit Utilities	EA	0	\$3,000.00	
40	Dewatering - Ferrari Ranch Road	EA	0	\$25,000.00	
41	Dewatering - Oak Tree near So. Ingram Slough	EA	0	\$50,000.00	
42	Dewatering - Oak Tree near new lake	EA	0	\$75,000.00	
43	Golf Course Fence and Netting	LF	0	\$133.00	
44	Split Rail Fencing	LF	0	\$45.00	
45	FRR Supplemental Topo + Aerial Topo	JOB	0	\$12,500.00	
46	Remediation Trench and Monitoring	JOB	0	\$1,000,000.00	
47	Traffic Control	JOB	0.25	\$100,000.00	\$25,0
48	Traffic Control Oak Tree Lane	JOB	0	\$250,000.00	
49	Bridge (at Auburn Ravine on Oak Tree Lane)	EA	0	\$5,500,000.00	

\* Cost per linear foot of roadway.

\*\* ROW Acquisition includes mapping, purchasing the land,

Contingency Based upon Hard Costs (15%): \$27,500

Soft Costs Contingency (17%): \$31,100

\*\*\* ROW Acquisition includes mapping.

TOTAL CIRCULATION \$241,700

民	FRAYJI	
G	DESIGN GROUP	

	tate Route 193 10				
tem #	Description	Unit	Quantity	Unit Price	Amount
Backhon	e Roadway System				
1	Mobilization	JOB	0.25	\$50,000.00	\$12,50
2	Excavation	CY	353	\$7.00	\$2,50
3	4" AB (Under Curb & Gutter and Sidewalk)	SF	0	\$1.80	
4	16" AB (assumes a Traffic Index of 9)	SF	0	\$2.25	(
5	5" AC (assumes a Traffic Index of 9)	SF	0	\$2.70	
6	18" AB (assumes a Traffic Index of 11)	SF	4760	\$2.50	\$11,90
7	7" AC (assumes a Traffic Index of 11)	SF	4760	\$4.00	\$19,0
8	Decomposed Granite Trail (4' width, 4" thick)	SF	0	\$1.80	
9	4" AB Shoulder (2' width)	SF	3380	\$1.20	\$4,10
10	Subgrade Street Prep (Street)	SF	4760	\$0.25	\$1,20
11	Subgrade Prep (Curb & Gutter)	SF	0	\$0.30	
12	Subgrade Prep (AB Shoulder)	SF	3380	\$0.30	\$1,0
13	Subgrade Prep (DG Trail)	SF	0	\$0.30	445 4
14	Signing and Striping (36' ROW)*		1690	\$15.00	\$25,4
15	Traffic Signals	EA EA	0	\$320,000.00	
16 17	Future Traffic Signal Signalized Intersection	EA	0	\$275,000.00 \$900,000.00	
17	Sidewalk, Concrete	SF	0	\$900,000.00	
18	Roundabout	EA	0	\$100,000.00	
20	Joint Trench	LF	0	\$100,000.00	
20	Underground Existing Utilities in Joint Trench	LF	0	\$360.00	
22	Type 5 Curb Median	LF	0	\$12.00	
23	Median Landscaping	SF	0	\$4.50	
24	Frontage Landscaping	SF	0	\$4.50	
25	Signal Conduit and Wiring	EA	0	\$75,000.00	
26	Curb and Gutter	LF	0	\$27.00	
27	AC Driveway (Per Approx. 12' wide)	EA	3	\$960.00	\$2,9
28	Irrigation Sleeves	LF	0	\$15.00	
29	Street Lights (every 150 LF)	EA	11	\$6,000.00	\$66,0
30	Sawcut and Pavement Removal Median	LF	0	\$20.00	
31	Sawcut and Pavement Removal	LF	1690	\$3.00	\$5,1
32	Reconstruct Ditches	LF	2150	\$3.00	\$6 <i>,</i> 5
33	Erosion Control	LF	1690	\$25.00	\$42,3
34	ROW Acquisition (Ferrari Ranch Road) **	LS	0	\$100,000.00	
35	ROW Acquisition (Oak Tree Lane - North) **	LS	0	\$500,000.00	
36	ROW Acquisition (Oak Tree Lane - South) ***	LS	0	\$50,000.00	
37	Grind and Remove Pavement	SF	0	\$3.00	
38 39	Grind and Overlay	SF EA	81120	\$2.00	\$162,2
	Retrofit Utilities Dewatering - Ferrari Ranch Road	EA	2	\$3,000.00 \$25,000.00	\$6 <i>,</i> 0
40 41	Dewatering - Oak Tree near So. Ingram Slough	EA	0	\$50,000.00	
41	Dewatering - Oak Tree near new lake	EA	0	\$75,000.00	
42	Golf Course Fence and Netting	LF	0	\$133.00	
43	Split Rail Fencing	LF	0	\$153.00	
45	FRR Supplemental Topo + Aerial Topo	JOB	0	\$12,500.00	
46	Remediation Trench and Monitoring	JOB	0	\$1,000,000.00	
47	Traffic Control	JOB	0.25	\$100,000.00	\$25,0
48	Traffic Control Oak Tree Lane	JOB	0.23	\$250,000.00	<i>Υ</i> 23,0
49	Bridge (at Auburn Ravine on Oak Tree Lane)	EA	0	\$5,500,000.00	
	Construction Total:				\$393,6

\* Cost per linear foot of roadway.

\*\* ROW Acquisition includes mapping, purchasing the land,

\$59,000 Contingency Based upon Hard Costs (15%): Soft Costs Contingency (17%): \$66,900

\*\*\* ROW Acquisition includes mapping.

TOTAL CIRCULATION \$519,500

民	FRAYJI DESIGN GROUP	
G	DESIGN GROUP	

em #	tate Route 193 11 Description	Unit	Quantity	Unit Price	Amount
	Decemption	<u> </u>	quantity	Childrinee	/ uno uno
ackbor	ne Roadway System				
1	Mobilization	JOB	0.25	\$50,000.00	\$12,5
2	Excavation	CY	391	\$7.00	\$12,5
3	4" AB (Under Curb & Gutter and Sidewalk)	SF	0	\$1.80	γ2,7
4	16" AB (assumes a Traffic Index of 9)	SF	0	\$2.25	
5	5" AC (assumes a Traffic Index of 9)	SF	0	\$2.70	
6	18" AB (assumes a Traffic Index of 11)	SF	5278	\$2.50	\$13,2
7	7" AC (assumes a Traffic Index of 11)	SF	5278	\$4.00	\$21,1
8	Decomposed Granite Trail (4' width, 4" thick)	SF	0	\$1.80	, ,
9	4" AB Shoulder (2' width)	SF	3980	\$1.20	\$4,7
10	Subgrade Street Prep (Street)	SF	5278	\$0.25	\$1,3
11	Subgrade Prep (Curb & Gutter)	SF	0	\$0.30	
12	Subgrade Prep (AB Shoulder)	SF	2900	\$0.30	\$9
13	Subgrade Prep (DG Trail)	SF	0	\$0.30	
14	Signing and Striping (36' ROW)*	LF	570	\$15.00	\$8,6
15	Traffic Signals	EA	0	\$320,000.00	
16	Future Traffic Signal	EA	0	\$275,000.00	
17	Signalized Intersection	EA	0	\$900,000.00	
18	Sidewalk, Concrete	SF	0	\$6.00	
19	Roundabout	EA	0	\$100,000.00	
20	Joint Trench	LF	0	\$115.00	
21	Underground Existing Utilities in Joint Trench	LF	0	\$360.00	
22	Type 5 Curb Median	LF	0	\$12.00	
23	Median Landscaping	SF	0	\$4.50	
24	Frontage Landscaping	SF	0	\$4.50	
25	Signal Conduit and Wiring	EA	0	\$75,000.00	
26	Curb and Gutter	LF	0	\$27.00	
27	AC Driveway (Per Approx. 12' wide)	EA	0	\$960.00	
28	Irrigation Sleeves	LF	0	\$15.00	
29	Street Lights (every 150 LF)	EA	13	\$6,000.00	\$78,
30	Sawcut and Pavement Removal Median	LF	0	\$20.00	
31	Sawcut and Pavement Removal	LF	1990	\$3.00	\$6,
32	Reconstruct Ditches	LF	0	\$3.00	
33	Erosion Control	LF	1990	\$25.00	\$49,
34	ROW Acquisition (Ferrari Ranch Road) **	LS	0	\$100,000.00	
35	ROW Acquisition (Oak Tree Lane - North) **	LS	0	\$500,000.00	
36	ROW Acquisition (Oak Tree Lane - South) ***	LS	0	\$50,000.00	
37	Grind and Remove Pavement	SF	0	\$3.00	
38	Grind and Overlay	SF	95520	\$2.00	\$191,3
39	Retrofit Utilities	EA	0	\$3,000.00	
40	Dewatering - Ferrari Ranch Road	EA	0	\$25,000.00	
41	Dewatering - Oak Tree near So. Ingram Slough	EA	0	\$50,000.00	
42	Dewatering - Oak Tree near new lake	EA	0	\$75,000.00	
43	Golf Course Fence and Netting	LF	0	\$133.00	
44	Split Rail Fencing	LF	0	\$45.00	
45	FRR Supplemental Topo + Aerial Topo	JOB	0	\$12,500.00	
46	Remediation Trench and Monitoring	JOB	0	\$1,000,000.00	
47	Traffic Control	JOB	0.25	\$100,000.00	\$25,
48	Traffic Control Oak Tree Lane	JOB	0	\$250,000.00	
49	Bridge (at Auburn Ravine on Oak Tree Lane)	EA	0	\$5,500,000.00	

 $^{\star\star}$  ROW Acquisition includes mapping, purchasing the land,

\*\*\* ROW Acquisition includes mapping.

TOTAL CIRCULATION \$547,900

Soft Costs Contingency (15%):
 \$62,300

 \$70,600
 \$70,600

民	FRAY	Ι
G	DESIGN GRO	UP

4 a ma . #	ak Tree Lane 1	L Incl.4	Oursetter	Hade Dates	A
tem #	Description	Unit	Quantity	Unit Price	Amount
Backbon	e Roadway System				
1	Mobilization	JOB	1	\$50,000.00	\$50,00
2	Excavation	CY	0	\$7.00	\$
3	4" AB (Under Curb & Gutter and Sidewalk)	SF	49140	\$1.80	\$88,50
4	16" AB (assumes a Traffic Index of 9)	SF	98280	\$2.25	\$221,20
5	5" AC (assumes a Traffic Index of 9)	SF	98280	\$2.70	\$265,40
6	18" AB (assumes a Traffic Index of 11)	SF	0	\$2.50	ć
7	7" AC (assumes a Traffic Index of 11)	SF	0	\$4.00	ć
8	Decomposed Granite Trail (4' width, 4" thick)	SF	0	\$1.80	
9	4" AB Shoulder (2' width)	SF	0	\$1.20	, ,
10	Subgrade Street Prep (Street)	SF	98280	\$0.25	\$24,50
11	Subgrade Prep (Curb & Gutter)	SF	49140	\$0.30	\$14,70
12	Subgrade Prep (AB Shoulder)	SF	0	\$0.30	ć
13	Subgrade Prep (DG Trail)	SF	0	\$0.30	ć
14	Signing and Striping (36' ROW)*	LF	2730	\$15.00	\$40,70
15	Traffic Signals	EA	0	\$320,000.00	
16	Future Traffic Signal	EA	0	\$275,000.00	Ċ
17	Signalized Intersection	EA	0	\$900,000.00	, ,
18	Sidewalk, Concrete	SF	32760	\$6.00	\$196,60
19	Roundabout	EA	0	\$100,000.00	
20	Joint Trench	LF	700	\$115.00	\$80,50
21	Underground Existing Utilities in Joint Trench	LF	0	\$360.00	
22	Type 5 Curb Median	LF	5460	\$12.00	\$65,60
23	Median Landscaping	SF	32760	\$4.50	\$147,50
24	Frontage Landscaping	SF	0	\$4.50	0
25	Signal Conduit and Wiring	EA	0	\$75,000.00	
26	Curb and Gutter	LF	5460	\$27.00	\$147,50
27	AC Driveway (Per Approx. 12' wide)	EA	0	\$960.00	
28	Irrigation Sleeves	LF	0	\$15.00	
29	Street Lights (every 150 LF)	EA	18	\$6,000.00	\$108,0
30	Sawcut and Pavement Removal Median	LF	0	\$20.00	
31	Sawcut and Pavement Removal	LF	0	\$3.00	
32	Reconstruct Ditches	LF	0	\$3.00	
33	Erosion Control	LF	2730	\$25.00	\$68,1
34	ROW Acquisition (Ferrari Ranch Road) **	LS	0	\$100,000.00	
35	ROW Acquisition (Oak Tree Lane - North) **	LS	0	\$500,000.00	:
36	ROW Acquisition (Oak Tree Lane - South) ***	LS	0	\$50,000.00	
37	Grind and Remove Pavement	SF	0	\$3.00	
38	Grind and Overlay	SF	0	\$2.00	
39	Retrofit Utilities	EA	0	\$3,000.00	
40	Dewatering - Ferrari Ranch Road	EA	0	\$25,000.00	:
41	Dewatering - Oak Tree near So. Ingram Slough	EA	0	\$50,000.00	
42	Dewatering - Oak Tree near new lake	EA	0	\$75,000.00	1
43	Golf Course Fence and Netting	LF	0	\$133.00	
44	Split Rail Fencing	LF	5350	\$45.00	\$240,8
45	FRR Supplemental Topo + Aerial Topo	JOB	0	\$12,500.00	
46	Remediation Trench and Monitoring	JOB	0	\$1,000,000.00	
47	Traffic Control	JOB	0	\$100,000.00	
48	Traffic Control Oak Tree Lane	JOB	0	\$250,000.00	
49	Bridge (at Auburn Ravine on Oak Tree Lane)	EA	0	\$5,500,000.00	

\* Cost per linear foot of roadway.

Contingency Based upon Hard Costs (15%):

\$263,800

\*\* ROW Acquisition includes mapping, purchasing the land,

Soft Costs Contingency (17%):

): \$299,200

\*\*\* ROW Acquisition includes mapping.

TOTAL CIRCULATION \$2,322,600

民	FRAYJI	
G	DESIGN GROUP	

	orth South Collector 2				
em #	Description	Unit	Quantity	Unit Price	Amount
ackbon	e Roadway System				
1	Mobilization	JOB	1	\$50,000.00	\$50,00
2	Excavation	CY	0	\$7.00	
3	4" AB (Under Curb & Gutter and Sidewalk)	SF	20960	\$1.80	\$37,70
4	16" AB (assumes a Traffic Index of 9)	SF	47160	\$2.25	\$106,10
5	5" AC (assumes a Traffic Index of 9) 18" AB (assumes a Traffic Index of 11)	SF SF	47160	\$2.70	\$127,3
6 7	7" AC (assumes a Traffic Index of 11)	SF SF	0	\$2.50 \$4.00	
8	Decomposed Granite Trail (4' width, 4" thick)	SF	0	\$4.00	
9	4" AB Shoulder (2' width)	SF	0	\$1.80	
10	Subgrade Street Prep (Street)	SF	47160	\$0.25	\$11,8
11	Subgrade Prep (Curb & Gutter)	SF	20960	\$0.30	\$6,3
12	Subgrade Prep (AB Shoulder)	SF	0	\$0.30	<i>\\\\\\\\\\\\\</i>
13	Subgrade Prep (DG Trail)	SF	0	\$0.30	
14	Signing and Striping (36' ROW)*	LF	1310	\$15.00	\$19,7
15	Traffic Signals	EA	0	\$320,000.00	
16	Future Traffic Signal	EA	0	\$275,000.00	
17	Signalized Intersection	EA	0	\$900,000.00	
18	Sidewalk, Concrete	SF	13100	\$6.00	\$78,6
19	Roundabout	EA	0	\$100,000.00	
20	Joint Trench	LF	1310	\$115.00	\$150,6
21	Underground Existing Utilities in Joint Trench	LF	0	\$360.00	
22	Type 5 Curb Median	LF	2620	\$12.00	\$31,4
23	Median Landscaping	SF	15720	\$4.50	\$70,7
24	Frontage Landscaping	SF	0	\$4.50	
25	Signal Conduit and Wiring	EA	0	\$75,000.00	
26	Curb and Gutter	LF	2620	\$27.00	\$70,7
27	AC Driveway (Per Approx. 12' wide)	EA	0	\$960.00	
28	Irrigation Sleeves	LF	0	\$15.00	654.0
29	Street Lights (every 150 LF)	EA LF	9	\$6,000.00	\$54,0
30	Sawcut and Pavement Removal Median Sawcut and Pavement Removal		0	\$20.00	
31 32	Reconstruct Ditches		0	\$3.00 \$3.00	
33	Erosion Control	LF	1310	\$3.00	\$32,8
34	ROW Acquisition (Ferrari Ranch Road) **	LS	0	\$100,000.00	<i>γ</i> υζ,υ
35	ROW Acquisition (Oak Tree Lane - North) **	LS	0	\$500,000.00	
36	ROW Acquisition (Oak Tree Lane - South) ***	LS	0	\$50,000.00	
37	Grind and Remove Pavement	SF	0	\$3.00	
38	Grind and Overlay	SF	0	\$2.00	
39	Retrofit Utilities	EA	0	\$3,000.00	
40	Dewatering - Ferrari Ranch Road	EA	0	\$25,000.00	
41	Dewatering - Oak Tree near So. Ingram Slough	EA	0	\$50,000.00	
42	Dewatering - Oak Tree near new lake	EA	0	\$75,000.00	
43	Golf Course Fence and Netting	LF	0	\$133.00	
44	Split Rail Fencing	LF	0	\$45.00	
45	FRR Supplemental Topo + Aerial Topo	JOB	0	\$12,500.00	
46	Remediation Trench and Monitoring	JOB	0	\$1,000,000.00	
47	Traffic Control	JOB	0	\$100,000.00	
48	Traffic Control Oak Tree Lane	JOB	0	\$250,000.00	
49	Bridge (at Auburn Ravine on Oak Tree Lane)	EA	0	\$5,500,000.00	

\* Cost per linear foot of roadway.

\*\* ROW Acquisition includes mapping, purchasing the land,

\$127,200 Contingency Based upon Hard Costs (15%): \$144,100

Soft Costs Contingency (17%):

\*\*\* ROW Acquisition includes mapping.

TOTAL CIRCULATION \$1,119,000

民	FRAYJI	
G	DESIGN GROUP	

1030 0 00	ollector Loop 2				
em #	Description	Unit	Quantity	Unit Price	Amount
ackbon	e Roadway System				
		105		t=0.000.00	4=0.00
1	Mobilization	JOB	1	\$50,000.00	\$50,00
2	Excavation 4" AB (Under Curb & Gutter and Sidewalk)	CY	0	\$7.00	
3	16" AB (assumes a Traffic Index of 9)	SF SF	14880	\$1.80	\$26,8 \$75,3
4 5	5" AC (assumes a Traffic Index of 9)	SF SF	33480 33480	\$2.25 \$2.70	\$75,3 \$90,4
6	18" AB (assumes a Traffic Index of 11)	SF	0	\$2.70	390,4
7	7" AC (assumes a Traffic Index of 11)	SF	0	\$2.30	
8	Decomposed Granite Trail (4' width, 4" thick)	SF	0	\$1.80	
9	4" AB Shoulder (2' width)	SF	0	\$1.20	
10	Subgrade Street Prep (Street)	SF	33480	\$0.25	\$8,4
11	Subgrade Prep (Curb & Gutter)	SF	14880	\$0.30	\$4,5
12	Subgrade Prep (AB Shoulder)	SF	0	\$0.30	. ,
13	Subgrade Prep (DG Trail)	SF	0	\$0.30	
14	Signing and Striping (36' ROW)*	LF	930	\$15.00	\$14,0
15	Traffic Signals	EA	0	\$320,000.00	
16	Future Traffic Signal	EA	0	\$275,000.00	
17	Signalized Intersection	EA	0	\$900,000.00	
18	Sidewalk, Concrete	SF	9300	\$6.00	\$55,8
19	Roundabout	EA	1	\$100,000.00	\$100,0
20	Joint Trench	LF	930	\$115.00	\$107 <i>,</i> 0
21	Underground Existing Utilities in Joint Trench	LF	0	\$360.00	
22	Type 5 Curb Median	LF	0	\$12.00	
23	Median Landscaping	SF	12090	\$4.50	\$54,4
24	Frontage Landscaping	SF	0	\$4.50	
25	Signal Conduit and Wiring	EA	0	\$75,000.00	4=0.0
26	Curb and Gutter	LF	1860	\$27.00	\$50,2
27	AC Driveway (Per Approx. 12' wide)	EA LF	0	\$960.00	
28	Irrigation Sleeves	EA	0	\$15.00	ć20 (
29 30	Street Lights (every 150 LF) Sawcut and Pavement Removal Median	LF	6	\$6,000.00 \$20.00	\$36,0
31	Sawcut and Pavement Removal		0	\$3.00	
32	Reconstruct Ditches	LF	0	\$3.00	
33	Erosion Control	LF	930	\$25.00	\$23,3
34	ROW Acquisition (Ferrari Ranch Road) **	LS	0	\$100,000.00	φ <b>1</b> 0)α
35	ROW Acquisition (Oak Tree Lane - North) **	LS	0	\$500,000.00	
36	ROW Acquisition (Oak Tree Lane - South) ***	LS	0	\$50,000.00	
37	Grind and Remove Pavement	SF	0	\$3.00	
38	Grind and Overlay	SF	0	\$2.00	
39	Retrofit Utilities	EA	0	\$3,000.00	
40	Dewatering - Ferrari Ranch Road	EA	0	\$25,000.00	
41	Dewatering - Oak Tree near So. Ingram Slough	EA	0	\$50,000.00	
42	Dewatering - Oak Tree near new lake	EA	0	\$75,000.00	
43	Golf Course Fence and Netting	LF	0	\$133.00	
44	Split Rail Fencing	LF	0	\$45.00	
45	FRR Supplemental Topo + Aerial Topo	JOB	0	\$12,500.00	
46	Remediation Trench and Monitoring	JOB	0	\$1,000,000.00	
47	Traffic Control	JOB	0	\$100,000.00	
48	Traffic Control Oak Tree Lane	JOB	0	\$250,000.00	
49	Bridge (at Auburn Ravine on Oak Tree Lane)	EA	0	\$5,500,000.00	

\* Cost per linear foot of roadway.

\*\* ROW Acquisition includes mapping, purchasing the land,

\$104,400 Contingency Based upon Hard Costs (15%): \$118,300

Soft Costs Contingency (17%):

\*\*\* ROW Acquisition includes mapping.

TOTAL CIRCULATION \$918,800

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B	DESIGN GROU	IP

tem #	ummary Description	Unit	Quantity	Unit Price	Amount
			<u> </u>		
Backbon	ne Roadway System				
1	Mobilization	JOB	1	\$50,000.00	\$50,00
2	Excavation	CY	0	\$7.00	\$
3	4" AB (Under Curb & Gutter and Sidewalk)	SF	60320	\$1.80	\$108,60
4	16" AB (assumes a Traffic Index of 9)	SF	135720	\$2.25	\$305,40
5	5" AC (assumes a Traffic Index of 9)	SF	135720	\$2.70	\$366,40
6	18" AB (assumes a Traffic Index of 11)	SF	0	\$2.50	Ś
7	7" AC (assumes a Traffic Index of 11)	SF	0	\$4.00	( 1
8	Decomposed Granite Trail (4' width, 4" thick)	SF	0	\$1.80	
9	4" AB Shoulder (2' width)	SF	0	\$1.20	
10	Subgrade Street Prep (Street)	SF	135720	\$0.25	\$33,90
11	Subgrade Prep (Curb & Gutter)	SF	60320	\$0.30	\$18,10
12	Subgrade Prep (AB Shoulder)	SF	0	\$0.30	
13	Subgrade Prep (DG Trail)	SF	0	\$0.30	
14	Signing and Striping (36' ROW)*	LF	3770	\$15.00	\$56,60
15 16	Traffic Signals Future Traffic Signal	EA EA	0	\$320,000.00 \$275,000.00	
10	Signalized Intersection	EA	0	\$900.000.00	
17	Sidewalk, Concrete	SF	37700	\$6.00	\$226,20
18	Roundabout	EA	0	\$100,000.00	3220,2
20	Joint Trench	LF	3770	\$100,000.00	\$433,6
20	Underground Existing Utilities in Joint Trench	LF	0	\$360.00	ς <del>τ</del> υσ,υ
22	Type 5 Curb Median	LF	0	\$12.00	
23	Median Landscaping	SF	0	\$4.50	
24	Frontage Landscaping	SF	0	\$4.50	
25	Signal Conduit and Wiring	EA	0	\$75,000.00	
26	Curb and Gutter	LF	7540	\$27.00	\$203,6
27	AC Driveway (Per Approx. 12' wide)	EA	0	\$960.00	
28	Irrigation Sleeves	LF	0	\$15.00	
29	Street Lights (every 150 LF)	EA	25	\$6,000.00	\$150,0
30	Sawcut and Pavement Removal Median	LF	0	\$20.00	
31	Sawcut and Pavement Removal	LF	0	\$3.00	
32	Reconstruct Ditches	LF	0	\$3.00	
33	Erosion Control	LF	3770	\$25.00	\$94,3
34	ROW Acquisition (Ferrari Ranch Road) **	LS	0	\$100,000.00	
35	ROW Acquisition (Oak Tree Lane - North) **	LS	0	\$500,000.00	
36	ROW Acquisition (Oak Tree Lane - South) ***	LS	0	\$50,000.00	
37	Grind and Remove Pavement	SF	0	\$3.00	
38	Grind and Overlay	SF	0	\$2.00	
39 40	Retrofit Utilities Dewatering - Ferrari Ranch Road	EA EA	0	\$3,000.00 \$25,000.00	
40	Dewatering - Oak Tree near So. Ingram Slough	EA	0	\$25,000.00	
41 42	Dewatering - Oak Tree near new lake	EA	0	\$75,000.00	
42	Golf Course Fence and Netting	LF	0	\$133.00	
43	Split Rail Fencing		0	\$155.00	
44	FRR Supplemental Topo + Aerial Topo	JOB	0	\$12,500.00	
45	Remediation Trench and Monitoring	JOB	0	\$1,000,000.00	
40	Traffic Control	JOB	0	\$100,000.00	
47	Traffic Control Oak Tree Lane	JOB	0	\$250,000.00	
49	Bridge (at Auburn Ravine on Oak Tree Lane)	EA	0	\$5,500,000.00	
	Construction Total:		, v	+=,===,===,===	\$2,046,7

\* Cost per linear foot of roadway.

\*\* ROW Acquisition includes mapping, purchasing the land,

 Contingency Based upon Hard Costs (15%):
 \$307,000

 Soft Costs Contingency (17%):
 \$347,900

\*\*\* ROW Acquisition includes mapping.

TOTAL CIRCULATION \$2,701,600

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G	DESIGN GRO	UP

	ollector Loop 3				
Item #	Description	Unit	Quantity	Unit Price	Amount
Backbon	e Roadway System				
			1		
1	Mobilization	JOB	1	\$50,000.00	\$50,00
2	Excavation	CY	0	\$7.00	
3	4" AB (Under Curb & Gutter and Sidewalk)	SF	60320	\$1.80	\$108,6
4 5	16" AB (assumes a Traffic Index of 9) 5" AC (assumes a Traffic Index of 9)	SF SF	135720	\$2.25	\$305,4
6	18" AB (assumes a Traffic Index of 9)	SF SF	135720	\$2.70 \$2.50	\$366,4
7	7" AC (assumes a Traffic Index of 11)	SF SF	0	\$2.50	
8	Decomposed Granite Trail (4' width, 4" thick)	SF	0	\$4.00	
9	4" AB Shoulder (2' width)	SF	0	\$1.80	
10	Subgrade Street Prep (Street)	SF	135720	\$0.25	\$33,9
10	Subgrade Prep (Curb & Gutter)	SF	60320	\$0.30	\$18,1
12	Subgrade Prep (AB Shoulder)	SF	0	\$0.30	<i>\</i>
13	Subgrade Prep (DG Trail)	SF	0	\$0.30	
14	Signing and Striping (36' ROW)*	LF	3770	\$15.00	\$56,6
15	Traffic Signals	EA	0	\$320,000.00	
16	Future Traffic Signal	EA	0	\$275,000.00	
17	Signalized Intersection	EA	0	\$900,000.00	
18	Sidewalk, Concrete	SF	37700	\$6.00	\$226,2
19	Roundabout	EA	0	\$100,000.00	
20	Joint Trench	LF	3770	\$115.00	\$433,6
21	Underground Existing Utilities in Joint Trench	LF	0	\$360.00	
22	Type 5 Curb Median	LF	0	\$12.00	
23	Median Landscaping	SF	0	\$4.50	
24	Frontage Landscaping	SF	0	\$4.50	
25	Signal Conduit and Wiring	EA	0	\$75,000.00	
26	Curb and Gutter	LF	7540	\$27.00	\$203 <i>,</i> 6
27	AC Driveway (Per Approx. 12' wide)	EA	0	\$960.00	
28	Irrigation Sleeves	LF	0	\$15.00	
29	Street Lights (every 150 LF)	EA	25	\$6,000.00	\$150,0
30	Sawcut and Pavement Removal Median	LF	0	\$20.00	
31	Sawcut and Pavement Removal	LF	0	\$3.00	
32 33	Reconstruct Ditches	LF LF	0 3770	\$3.00 \$25.00	\$94,3
33	Erosion Control ROW Acquisition (Ferrari Ranch Road) **	LF	3770	\$100,000.00	Ş94,3
34 35	ROW Acquisition (Perfait Ranch Road) ROW Acquisition (Oak Tree Lane - North) **	LS	0	\$100,000.00	
36	ROW Acquisition (Oak Tree Lane - South) ***	LS	0	\$50,000.00	
37	Grind and Remove Pavement	SF	0	\$3.00	
38	Grind and Overlay	SF	0	\$2.00	
39	Retrofit Utilities	EA	0	\$3,000.00	
40	Dewatering - Ferrari Ranch Road	EA	0	\$25,000.00	
41	Dewatering - Oak Tree near So. Ingram Slough	EA	0	\$50,000.00	
42	Dewatering - Oak Tree near new lake	EA	0	\$75,000.00	
43	Golf Course Fence and Netting	LF	0	\$133.00	
44	Split Rail Fencing	LF	0	\$45.00	
45	FRR Supplemental Topo + Aerial Topo	JOB	0	\$12,500.00	
46	Remediation Trench and Monitoring	JOB	0	\$1,000,000.00	
47	Traffic Control	JOB	0	\$100,000.00	
48	Traffic Control Oak Tree Lane	JOB	0	\$250,000.00	
49	Bridge (at Auburn Ravine on Oak Tree Lane)	EA	0	\$5,500,000.00	
	Construction Total:				\$2,046,

\* Cost per linear foot of roadway.

### Contingency Based upon Hard Costs (15%):

\$307,000 \$347,900

\*\* ROW Acquisition includes mapping, purchasing the land,

Soft Costs Contingency (17%):

\*\*\* ROW Acquisition includes mapping.

TOTAL CIRCULATION \$2,701,600

Backbone Roadway System           1         Mobilization         JOB         2         \$50,           2         Excavation         CY         0           3         4' AB (Under Curb & Gutter and Sidewalk)         \$F         15210           4         16''AB (assumes a Traffic Index of 9)         \$F         42760           5         5' AC (assumes a Traffic Index of 9)         \$F         42760           6         18''AB (assumes a Traffic Index of 11)         \$F         0           7         7' AC (assumes a Traffic Index of 11)         \$F         0           8         Decomposed Granite Trail (4' width, 4' thick)         \$F         0           9         4' AB Shoulder (2' width)         \$F         0           11         Subgrade Prep (Cbr & Scutter)         \$F         1510           12         Subgrade Prep (Cbr & Scutter)         \$F         0           13         Subgrade Prep (Cbr & Scutter)         \$F         0           14         Signaja aci Striping (36' ROW)*         LF         3110           15         Traffic Signal         EA         0         \$200,           16         Future Traffic Signal         EA         0         \$100,           17					Summary	Phase 7
Image: 1         Mobilization         JOB         2         \$\$50,           2         Excavation         CY         0         0         3         4* AB (Under Curb & Gutter and Sidewalk)         SF         15210           4         16* AB (assumes a Traffic Index of 9)         SF         42760         5           5         S* AC (assumes a Traffic Index of 9)         SF         42760         0           7         7* AC (assumes a Traffic Index of 11)         SF         0         0           8         Decomposed Granite Trail (4 width, 4* thick)         SF         0         0           9         4* AB Shoulder (2 width)         SF         1210         0           10         Subgrade Prep (CB Trail)         SF         0         0           13         Subgrade Prep (CB Trail)         SF         0         0           14         Signing and Striping (36* ROW)*         LF         3110         0           15         Traffic Signal         EA         0         \$22575           16         Future Traffic Signal         EA         0         \$200,0           18         Sidewalk, Concrete         SF         5880         0           21         Underground Existing Uti	ce Amou	Unit Price	Quantity	Unit	Description	ltem #
Image: 1         JOB         2         S50.           2         Excavation         CY         0         0         3         4* AB (Under Curb & Gutter and Sidewalk)         SF         15210						
2         Excavation         CY         0           3         4' AB (Under Cub & Gutter and Sidewalk)         SF         15210           4         16' AB (assumes a Traffic Index of 9)         SF         42760           5         5' AC (assumes a Traffic Index of 9)         SF         42760           6         18' AB (assumes a Traffic Index of 11)         SF         0           7         7' AC (assumes a Traffic Index of 11)         SF         0           8         Decomposed Granite Trail (4' width, 4' thick)         SF         0           9         4' AB Shoulder (2' width)         SF         0           10         Subgrade Street Prep (Street)         SF         15210           11         Subgrade Prep (Car b& Soulder)         SF         0           13         Subgrade Prep (Car Trail)         SF         0           14         Signing and Striping (36' ROW)*         LF         3110           15         Traffic Signal         EA         0         \$320,           16         Future Traffic Signal         EA         0         \$100,           18         Sidewalk, Concrete         SF         5880         \$100,           20         Joint Trench         LF					ne Roadway System	Backbo
2         Excavation         CY         0           3         4' AB (Under Curb & Gutter and Sidewalk)         SF         15210           4         16' AB (assumes a Traffic Index of 9)         SF         42760           5         5' AC (assumes a Traffic Index of 9)         SF         42760           6         18' AB (assumes a Traffic Index of 11)         SF         0           7         7' AC (assumes a Traffic Index of 11)         SF         0           8         Decomposed Granite Trail (4' width, 4' thick)         SF         0           9         4' AB Shoulder (2' width)         SF         0           10         Subgrade Prep (Cirb & Gutter)         SF         15210           11         Subgrade Prep (Carb & Gutter)         SF         0           13         Subgrade Prep (Carb & Gutter)         SF         0           14         Signing and Striping (36' ROW)*         LF         3110           15         Traffic Signal         EA         0         \$2275,           17         Signalized Intersection         EA         0         \$100,           18         Sidewalk, Concrete         SF         5880         \$100,           20         Joint Trench         LF						
3         4* AB (Under Curb & Gutter and Sidewalk)         SF         15210           4         16* AB (assumes a Traffic Index of 9)         SF         42760           5         5* AC (assumes a Traffic Index of 9)         SF         42760           6         18* AB (assumes a Traffic Index of 11)         SF         0           7         7* AC (assumes a Traffic Index of 11)         SF         0           8         Decomposed Granite Trail (4 width, 4* thick)         SF         0           9         4* AB Shoulder (2 width)         SF         42760           11         Subgrade Street Prep (Street)         SF         10           12         Subgrade Prep (Carb & Gutter)         SF         0           13         Subgrade Prep (Carb & Gutter)         SF         0           14         Signing and Striping (36* ROW)*         LF         3110           15         Traffic Signal         EA         0         \$320,           16         Future Traffic Signal         EA         0         \$320,           18         Sidewalk, Concrete         SF         5880           19         Roundabout         EA         0         \$100,           21         Underground Existing Utilities in Joint T	000.00 \$100	\$50,000.00	2	JOB	Mobilization	1
4         16° AB (assumes a Traffic Index of 9)         SF         42760           5         5' AC (assumes a Traffic Index of 9)         SF         42760           6         18' AB (assumes a Traffic Index of 11)         SF         0           7         7' AC (assumes a Traffic Index of 11)         SF         0           8         Decomposed Granite Trail (4' width, 4' thick)         SF         0           9         4' AB Shoulder (2' width)         SF         12           Subgrade Street Prep (Street)         SF         15210           11         Subgrade Prep (CB Trail)         SF         0           13         Subgrade Prep (AB Shoulder)         SF         0           14         Signing and Striping (36' ROW)'         LF         3110           15         Traffic Signal         EA         0         \$320,           16         Future Traffic Signal         EA         0         \$90,           18         Sidewalk, Concrete         SF         5800         \$100,           20         Joint Trench         LF         0         \$22,           19         Roundabout         EA         0         \$25,           21         Underground Existing Uillifies in Joint Trench	\$7.00		0	CY	Excavation	
5         5" AC (assumes a Traffic Index of 9)         SF         42760           6         18" AB (assumes a Traffic Index of 11)         SF         0           7         7" AC (assumes a Traffic Index of 11)         SF         0           8         Decomposed Granite Trail (4" width, 4" thick)         SF         0           9         4" AB Shoulder (2" width)         SF         0           10         Subgrade Prep (AB Shoulder)         SF         42760           11         Subgrade Prep (Curb & Gutter)         SF         0           12         Subgrade Prep (DG Trail)         SF         0           13         Subgrade Prep (DG Trail)         SF         0           14         Signing and Striping (36 ROW)"         LF         3110           15         Traffic Signal         EA         0         \$220,           16         Future Traffic Signal         EA         0         \$220,           17         Signalized Intersection         EA         0         \$220,           18         Sidewalk, Concrete         SF         5880         \$100,         \$21           10         Daint Trench         LF         3110         \$25         \$21         Underground Existing Utilities i	\$1.80 \$2		15210	SF	4" AB (Under Curb & Gutter and Sidewalk)	-
6         18' AB (assumes a Traffic Index of 11)         SF         0           7         T' AC (assumes a Traffic Index of 11)         SF         0           8         Decomposed Granite Trail (4' width, 4" thick)         SF         0           9         4' AB Shoulder (2' width)         SF         0           10         Subgrade Street Prep (Street)         SF         42760           11         Subgrade Prep (Cub & Gutter)         SF         0           12         Subgrade Prep (Cub & Gutter)         SF         0           13         Subgrade Prep (DG Trail)         SF         0           14         Signals         EA         0         \$320,           16         Future Traffic Signal         EA         0         \$2275,           17         Signalized Intersection         EA         0         \$90,0           18         Sidewalk, Concrete         SF         5880         \$90,0           20         Joint Trench         LF         0         \$2           21         Underground Existing Utilities in Joint Trench         LF         0         \$2           22         Type 5 Curb Median         LF         0         \$2         \$380,0         \$2      <	\$2.25 \$96		42760			
7         7" AC (assumes a Traffic Index of 11)         SF         0           8         Decomposed Granite Trail (4" width, 4" thick)         SF         0           9         4" AB Shoulder (2" width, 4" thick)         SF         0           10         Subgrade Street Prep (Street)         SF         42760           11         Subgrade Prep (Curb & Gutter)         SF         0           12         Subgrade Prep (DG Trail)         SF         0           13         Subgrade Prep (DG Trail)         SF         0           14         Signing and Striping (36" ROW)*         LF         3110           15         Traffic Signal         EA         0         \$220,           16         Future Traffic Signal         EA         0         \$220,           17         Signalized Intersection         EA         0         \$100,           20         Joint Trench         LF         3110         \$           21         Underground Existing Utilities in Joint Trench         LF         0         \$           22         Type 5 Curb Median         LF         0         \$         \$           23         Median Landscaping         SF         5880         \$         \$      <	\$2.70 \$115				, , ,	
8         Decomposed Granite Trail (4' width, 4" thick)         SF         0           9         4" AB Shoulder (2' width)         SF         0           10         Subgrade Street Prep (Curb & Gutter)         SF         15210           11         Subgrade Prep (Curb & Gutter)         SF         0           12         Subgrade Prep (OG Trail)         SF         0           13         Subgrade Prep (OG Trail)         SF         0           14         Signing and Striping (36' ROW)*         LF         3110           15         Traffic Signals         EA         0         \$320,           16         Future Traffic Signal         EA         0         \$275,           17         Signalized Intersection         EA         0         \$900,           18         Sidewalk, Concrete         SF         5880           19         Roundabout         EA         0         \$100,           21         Underground Existing Utilities in Joint Trench         LF         0         \$           22         Type 5 Curb Median         LF         0         \$         \$           23         Median Landscaping         SF         5880         \$         \$           24	\$2.50		-			
9         4* AB Shoulder (2' width)         SF         0           10         Subgrade Street Prep (Street)         SF         42760           11         Subgrade Prep (AB Shoulder)         SF         0           12         Subgrade Prep (AB Shoulder)         SF         0           13         Subgrade Prep (AB Shoulder)         SF         0           14         Signing and Striping (36' ROW)*         LF         3110           15         Traffic Signals         EA         0         \$220,           16         Future Traffic Signal         EA         0         \$275,           17         Signalized Intersection         EA         0         \$277,           18         Sidewalk, Concrete         SF         5880         \$900,           20         Joint Trench         LF         3110         \$           21         Underground Existing Utilities in Joint Trench         LF         0         \$           22         Type 5 Curb Median         LF         0         \$         \$           22         Type 5 Curb Median         LF         0         \$         \$           23         Median Landscaping         SF         5880         \$         \$	\$4.00		-			
10         Subgrade Street Prep (Street)         SF         42760           11         Subgrade Prep (Curb & Gutter)         SF         15210           12         Subgrade Prep (AB Shoulder)         SF         0           13         Subgrade Prep (DG Trail)         SF         0           14         Signing and Striping (36' ROW)*         LF         3110           15         Traffic Signals         EA         0         \$320,           16         Future Traffic Signal         EA         0         \$320,           17         Signalized Intersection         EA         0         \$900,           18         Sidewalk, Concrete         SF         5880         \$100,           20         Joint Trench         LF         3110         \$\$           21         Underground Existing Utilities in Joint Trench         LF         0         \$\$           22         Type 5 Curb Median         LF         0         \$\$         \$\$           23         Median Landscaping         SF         0         \$\$         \$\$           24         Frontage Landscaping         SF         0         \$\$         \$\$           25         Signal Conduit and Wiring         EA	\$1.80		_			
11         Subgrade Prep (Curb & Gutter)         SF         15210           12         Subgrade Prep (AB Shoulder)         SF         0           13         Subgrade Prep (AB Shoulder)         SF         0           14         Signing and Striping (36' ROW)*         LF         3110           15         Traffic Signals         EA         0         \$320,           16         Future Traffic Signal         EA         0         \$900,           18         Sidewalk, Concrete         SF         5880           19         Roundabout         EA         0         \$100,           20         Joint Trench         LF         3110         \$           21         Underground Existing Utilities in Joint Trench         LF         0         \$           22         Type 5 Curb Median         LF         0         \$         \$           23         Median Landscaping         SF         0         \$         \$           24         Frontage Landscaping         SF         0         \$         \$           25         Signal Conduit and Wiring         EA         0         \$         \$           26         Curb and Gutter         LF         0 <t< td=""><td>\$1.20</td><td></td><td>-</td><td></td><td></td><td></td></t<>	\$1.20		-			
12         Subgrade Prep (AB Shoulder)         SF         0           13         Subgrade Prep (DG Trail)         SF         0           14         Signing and Striping (36' ROW)*         LF         3110           15         Traffic Signals         EA         0         \$320,           16         Future Traffic Signal         EA         0         \$2275,           17         Signalized Intersection         EA         0         \$200,           18         Sidewalk, Concrete         SF         5880           19         Roundabout         EA         0         \$100,           20         Joint Trench         LF         3110         \$           21         Underground Existing Utilities in Joint Trench         LF         0         \$           22         Type 5 Curb Median         LF         0         \$         \$           23         Median Landscaping         SF         5880         \$         \$           24         Frontage Landscaping         SF         0         \$         \$           25         Signal Conduit and Wiring         EA         0         \$         \$           26         Curb and Gutter         LF         010	\$0.25 \$10					
13         Subgrade Prep (DG Trail)         SF         0           14         Signing and Striping (36' ROW)*         LF         3110           15         Traffic Signals         EA         0         \$320,           16         Future Traffic Signal         EA         0         \$320,           17         Signalized Intersection         EA         0         \$900,           18         Sidewalk, Concrete         SF         5880           19         Roundabout         EA         0         \$100,           20         Joint Trench         LF         0         \$           21         Underground Existing Utilities in Joint Trench         LF         0         \$           23         Median Landscaping         SF         580         \$           24         Frontage Landscaping         SF         0         \$           25         Signal Conduit and Wiring         EA         0         \$         \$           28         Irrigation Sleeves         LF         0         \$         \$           29         Street Lights (every 150 LF)         EA         22         \$         \$           30         Sawout and Pavement Removal         LF	\$0.30 \$4					
14         Signing and Striping (36' ROW)*         LF         3110           15         Traffic Signals         EA         0         \$320,           16         Future Traffic Signal         EA         0         \$275,           17         Signalized Intersection         EA         0         \$900,           18         Sidewalk, Concrete         SF         5880           19         Roundabout         EA         0         \$100,           20         Joint Trench         LF         3110         \$           21         Underground Existing Utilities in Joint Trench         LF         0         \$           22         Type 5 Curb Median         LF         0         \$         \$           23         Median Landscaping         SF         5880         \$         \$           24         Frontage Landscaping         SF         0         \$         \$           26         Curb and Gutter         LF         3110         \$         \$           27         AC Driveway (Per Approx. 12' wide)         EA         0         \$         \$           28         Irrigation Sleeves         LF         0         \$         \$         \$	\$0.30		-			
15         Traffic Signals         EA         0         \$320,           16         Future Traffic Signal         EA         0         \$2275,           17         Signalized Intersection         EA         0         \$900,           18         Sidewalk, Concrete         SF         5880           19         Roundabout         EA         0         \$100,           20         Joint Trench         LF         3110         \$           21         Underground Existing Utilities in Joint Trench         LF         0         \$           22         Type 5 Curb Median         LF         0         \$           23         Median Landscaping         SF         5880         \$           24         Frontage Landscaping         SF         0         \$         \$           25         Signal Conduit and Wiring         EA         0         \$         \$           26         Curb and Gutter         LF         0         \$         \$           27         AC Driveway (Per Approx. 12' wide)         EA         22         \$6,           30         Sawcut and Pavement Removal Median         LF         0         \$           31         Sawcut and Paveme	\$0.30				- · · · · · ·	
16         Future Traffic Signal         EA         0         \$275,           17         Signalized Intersection         EA         0         \$900,           18         Sidewalk, Concrete         SF         5880           19         Roundabout         EA         0         \$100,           20         Joint Trench         LF         3110         \$           21         Underground Existing Utilities in Joint Trench         LF         0         \$           22         Type 5 Curb Median         LF         0         \$           23         Median Landscaping         SF         0         \$           24         Frontage Landscaping         SF         0         \$           25         Signal Conduit and Wiring         EA         0         \$           26         Curb and Gutter         LF         3110         \$           27         AC Driveway (Per Approx. 12' wide)         EA         22         \$           28         Irrigation Sleeves         LF         0         \$           29         Street Lights (every 150 LF)         EA         22         \$           31         Sawcut and Pavement Removal Median         LF         0		\$15.00				
17         Signalized Intersection         EA         0         \$900,           18         Sidewalk, Concrete         SF         5880           19         Roundabout         EA         0         \$100,           20         Joint Trench         LF         3110         \$           21         Underground Existing Utilities in Joint Trench         LF         0         \$           22         Type 5 Curb Median         LF         0         \$           23         Median Landscaping         SF         5880         \$           24         Frontage Landscaping         SF         0         \$         \$           25         Signal Conduit and Wiring         EA         0         \$         \$           26         Curb and Gutter         LF         3110         \$         \$           27         AC Driveway (Per Approx. 12' wide)         EA         0         \$         \$           28         Irrigation Sleeves         LF         0         \$         \$           30         Sawcut and Pavement Removal         LF         2130         \$           31         Sawcut and Pavement Removal         LF         3110         \$		\$320,000.00				
18         Sidewalk, Concrete         SF         5880           19         Roundabout         EA         0         \$100,           20         Joint Trench         LF         3110         \$           21         Underground Existing Utilities in Joint Trench         LF         0         \$           22         Type 5 Curb Median         LF         0         \$           23         Median Landscaping         SF         5880         \$           24         Frontage Landscaping         SF         0         \$           25         Signal Conduit and Wiring         EA         0         \$           26         Curb and Gutter         LF         0         \$           27         AC Driveway (Per Approx. 12' wide)         EA         0         \$           28         Irrigation Sleeves         LF         0         \$           29         Street Lights (every 150 LF)         EA         22         \$6,           30         Sawcut and Pavement Removal         LF         0         \$           31         Sawcut and Pavement Removal         LF         3110         \$           32         Reconstruct Ditches         LF         0         \$		\$275,000.00	-		0	
19         Roundabout         EA         0         \$100,           20         Joint Trench         LF         3110         \$           21         Underground Existing Utilities in Joint Trench         LF         0         \$           22         Type 5 Curb Median         LF         0         \$           23         Median Landscaping         SF         5880           24         Frontage Landscaping         SF         0           25         Signal Conduit and Wiring         EA         0         \$75,           26         Curb and Gutter         LF         3110         \$           27         AC Driveway (Per Approx. 12' wide)         EA         0         \$           28         Irrigation Sleeves         LF         0         \$           30         Sawcut and Pavement Removal Median         LF         0         \$           31         Sawcut and Pavement Removal         LF         2130         \$           32         Reconstruct Ditches         LF         0         \$           33         Erosion Control         LF         3110         \$           34         ROW Acquisition (Oak Tree Lane - North) **         LS         0 <td< td=""><td></td><td>\$900,000.00</td><td>-</td><td></td><td>5</td><td></td></td<>		\$900,000.00	-		5	
20         Joint Trench         LF         3110         \$           21         Underground Existing Utilities in Joint Trench         LF         0         \$           22         Type 5 Curb Median         LF         0         \$           23         Median Landscaping         SF         5880           24         Frontage Landscaping         SF         0           25         Signal Conduit and Wiring         EA         0         \$75,           26         Curb and Gutter         LF         3110         \$           27         AC Driveway (Per Approx. 12' wide)         EA         0         \$           28         Irrigation Sleeves         LF         0         \$           29         Street Lights (every 150 LF)         EA         22         \$6,           30         Sawcut and Pavement Removal         LF         0         \$           31         Sawcut and Pavement Removal         LF         0         \$           33         Erosion Control         LF         3110         \$           34         ROW Acquisition (Oak Tree Lane - North) **         LS         0         \$           37         Grind and Remove Pavement         SF         0 <td>\$6.00 \$35</td> <td></td> <td></td> <td></td> <td>-</td> <td></td>	\$6.00 \$35				-	
21Underground Existing Utilities in Joint TrenchLF0\$22Type 5 Curb MedianLF023Median LandscapingSF588024Frontage LandscapingSF025Signal Conduit and WiringEA026Curb and GutterLF311027AC Driveway (Per Approx. 12' wide)EA028Irrigation SleevesLF029Street Lights (every 150 LF)EA2230Sawcut and Pavement Removal MedianLF213031Sawcut and Pavement RemovalLF213032Reconstruct DitchesLF033Erosion ControlLF311034ROW Acquisition (Ferrari Ranch Road) **LS0\$100,35ROW Acquisition (Oak Tree Lane - North) **LS0\$500,37Grind and Remove PavementSF033,40Dewatering - Ferrari Ranch RoadEA0\$25,41Dewatering - Gak Tree near So. Ingram SloughEA0\$25,42Dewatering - Oak Tree near So. Ingram SloughEA0\$75,43Golf Course Fence and NettingLF98045\$FRR Supplemental Topo + Aerial TopoJOB0\$110,46Remediation Trench and MonitoringJOB0\$110,\$110,\$110,46Remediation Trench and MonitoringJOB0\$110,		\$100,000.00				
22Type 5 Curb MedianLF023Median LandscapingSF588024Frontage LandscapingSF025Signal Conduit and WiringEA0\$75,26Curb and GutterLF3110727AC Driveway (Per Approx. 12' wide)EA0\$28Irrigation SleevesLF0029Street Lights (every 150 LF)EA22\$6,30Sawcut and Pavement Removal MedianLF0031Sawcut and Pavement RemovalLF0033Erosion ControlLF3110034ROW Acquisition (Ferrari Ranch Road) **LS0\$100,35ROW Acquisition (Oak Tree Lane - North) **LS0\$500,36ROW Acquisition (Oak Tree Lane - South) ***LS0\$500,37Grind and Remove PavementSF033,39Retrofit UtilitiesEA0\$3,40Dewatering - Ferrari Ranch RoadEA0\$3,41Dewatering - Oak Tree near So. Ingram SloughEA0\$50,44Split Rail FencingLF980\$44\$511 Rail Fencing\$445FRR Supplemental Topo + Aerial TopoJOB0\$1,000,46Remediation Trench and MonitoringJOB0\$1,000,		\$115.00				
23Median LandscapingSF588024Frontage LandscapingSF025Signal Conduit and WiringEA0\$75,26Curb and GutterLF31107727AC Driveway (Per Approx. 12' wide)EA0\$28Irrigation SleevesLF0029Street Lights (every 150 LF)EA22\$6,30Sawcut and Pavement Removal MedianLF0031Sawcut and Pavement RemovalLF0032Reconstruct DitchesLF0033Erosion ControlLF3110034ROW Acquisition (Ferrari Ranch Road) **LS0\$100,35ROW Acquisition (Oak Tree Lane - North) **LS0\$500,36ROW Acquisition (Oak Tree Lane - South) ***LS0\$50,37Grind and Remove PavementSF033,38Grind and OverlaySF0\$3,40Dewatering - Ferrari Ranch RoadEA0\$3,41Dewatering - Gak Tree near So. Ingram SloughEA0\$50,42Dewatering - Gak Tree near Not NetwingLF980\$4444Split Rail FencingLF980\$4445FRR Supplemental Topo + Aerial TopoJOB0\$1,000,46Remediation Trench and MonitoringJOB0\$1,000,		\$360.00 \$12.00				
24Frontage LandscapingSF025Signal Conduit and WiringEA0\$75,26Curb and GutterLF311027AC Driveway (Per Approx. 12' wide)EA0\$28Irrigation SleevesLF0\$29Street Lights (every 150 LF)EA22\$6,30Sawcut and Pavement Removal MedianLF0\$31Sawcut and Pavement RemovalLF0\$32Reconstruct DitchesLF0\$33Erosion ControlLF3110\$34ROW Acquisition (Ferrari Ranch Road) **LS0\$\$100,35ROW Acquisition (Oak Tree Lane - North) **LS0\$\$0,36ROW Acquisition (Oak Tree Lane - South) ***LS0\$\$0,37Grind and Remove PavementSF0\$38Grind and OverlaySF0\$\$39Retrofit UtilitiesEA0\$\$25,\$41Dewatering - Oak Tree near So. Ingram SloughEA0\$\$25,42Dewatering - Oak Tree near new lakeEA0\$\$75,44Split Rail FencingLF980\$\$45FRR Supplemental Topo + Aerial TopoJOB0\$1,000,46Remediation Trench and MonitoringJOB0\$1,000,			Ű			
25Signal Conduit and WiringEA0\$75,26Curb and GutterLF311027AC Driveway (Per Approx. 12' wide)EA0\$28Irrigation SleevesLF029Street Lights (every 150 LF)EA22\$6,30Sawcut and Pavement Removal MedianLF031Sawcut and Pavement RemovalLF213032Reconstruct DitchesLF033Erosion ControlLF311034ROW Acquisition (Ferrari Ranch Road) **LS035ROW Acquisition (Oak Tree Lane - North) **LS036ROW Acquisition (Oak Tree Lane - South) ***LS037Grind and Remove PavementSF038Grind and OverlaySF039Retrofit UtilitiesEA040Dewatering - Ferrari Ranch RoadEA041Dewatering - Gak Tree near So. Ingram SloughEA042Dewatering - Oak Tree near new lakeEA043Golf Course Fence and NettingLF98044Split Rail FencingLF98045FRR Supplemental Topo + Aerial TopoJOB046Remediation Trench and MonitoringJOB046Remediation Trench and MonitoringJOB0	\$4.50 \$26 \$4.50				- 0	
26Curb and GutterLF311027AC Driveway (Per Approx. 12' wide)EA0\$28Irrigation SleevesLF029Street Lights (every 150 LF)EA22\$6,30Sawcut and Pavement Removal MedianLF0031Sawcut and Pavement RemovalLF2130032Reconstruct DitchesLF0033Erosion ControlLF3110034ROW Acquisition (Ferrari Ranch Road) **LS0\$100,35ROW Acquisition (Oak Tree Lane - North) **LS0\$500,36ROW Acquisition (Oak Tree Lane - South) ***LS0\$50,37Grind and Remove PavementSF0\$30,39Retrofit UtilitiesEA0\$3,40Dewatering - Ferrari Ranch RoadEA0\$25,41Dewatering - Oak Tree near So. Ingram SloughEA0\$25,44Split Rail FencingLF980\$4445FRR Supplemental Topo + Aerial TopoJOB0\$1,000,46Remediation Trench and MonitoringJOB0\$1,000,		\$4.50	-			
27AC Driveway (Per Approx. 12' wide)EA0\$28Irrigation SleevesLF029Street Lights (every 150 LF)EA22\$6,30Sawcut and Pavement Removal MedianLF031Sawcut and Pavement RemovalLF213032Reconstruct DitchesLF033Erosion ControlLF311034ROW Acquisition (Ferrari Ranch Road) **LS0\$100,35ROW Acquisition (Oak Tree Lane - North) **LS0\$500,36ROW Acquisition (Oak Tree Lane - South) ***LS0\$50,37Grind and Remove PavementSF0\$30,38Grind and OverlaySF0\$31,40Dewatering - Ferrari Ranch RoadEA0\$25,41Dewatering - Oak Tree near So. Ingram SloughEA0\$25,43Golf Course Fence and NettingLF980\$4444Split Rail FencingLF980\$1,000,46Remediation Trench and MonitoringJOB0\$1,000,		\$75,000.00				
28Irrigation SleevesLF029Street Lights (every 150 LF)EA22\$6,30Sawcut and Pavement Removal MedianLF031Sawcut and Pavement RemovalLF213032Reconstruct DitchesLF033Erosion ControlLF311034ROW Acquisition (Ferrari Ranch Road) **LS035ROW Acquisition (Oak Tree Lane - North) **LS036ROW Acquisition (Oak Tree Lane - South) ***LS037Grind and Remove PavementSF038Grind and OverlaySF039Retrofit UtilitiesEA040Dewatering - Ferrari Ranch RoadEA041Dewatering - Gak Tree near So. Ingram SloughEA042Dewatering - Oak Tree near new lakeEA044Split Rail FencingLF98045FRR Supplemental Topo + Aerial TopoJOB046Remediation Trench and MonitoringJOB041OpelAcrial TopoJOB0		\$960.00				
29Street Lights (every 150 LF)EA22\$6,30Sawcut and Pavement Removal MedianLF031Sawcut and Pavement RemovalLF213032Reconstruct DitchesLF033Erosion ControlLF311034ROW Acquisition (Ferrari Ranch Road) **LS035ROW Acquisition (Oak Tree Lane - North) **LS036ROW Acquisition (Oak Tree Lane - South) ***LS037Grind and Remove PavementSF038Grind and OverlaySF039Retrofit UtilitiesEA040Dewatering - Ferrari Ranch RoadEA041Dewatering - Oak Tree near So. Ingram SloughEA042Dewatering - Oak Tree near new lakeEA044Split Rail FencingLF98045FRR Supplemental Topo + Aerial TopoJOB046Remediation Trench and MonitoringJOB0		\$960.00				
30Sawcut and Pavement Removal MedianLF031Sawcut and Pavement RemovalLF213032Reconstruct DitchesLF033Erosion ControlLF311034ROW Acquisition (Ferrari Ranch Road) **LS035ROW Acquisition (Oak Tree Lane - North) **LS036ROW Acquisition (Oak Tree Lane - North) **LS037Grind and Remove PavementSF038Grind and Remove PavementSF039Retrofit UtilitiesEA039Retrofit UtilitiesEA040Dewatering - Ferrari Ranch RoadEA041Dewatering - Oak Tree near So. Ingram SloughEA042Dewatering - Oak Tree near new lakeEA044Split Rail FencingLF98045FRR Supplemental Topo + Aerial TopoJOB046Remediation Trench and MonitoringJOB0		\$6,000.00	-		5	-
31Sawcut and Pavement RemovalLF213032Reconstruct DitchesLF033Erosion ControlLF311034ROW Acquisition (Ferrari Ranch Road) **LS035ROW Acquisition (Oak Tree Lane - North) **LS036ROW Acquisition (Oak Tree Lane - North) **LS037Grind and Remove PavementSF038Grind and OverlaySF039Retrofit UtilitiesEA040Dewatering - Ferrari Ranch RoadEA041Dewatering - Oak Tree near So. Ingram SloughEA042Dewatering - Oak Tree near new lakeEA044Split Rail FencingLF98045FRR Supplemental Topo + Aerial TopoJOB046Remediation Trench and MonitoringJOB0		\$8,000.00				-
32Reconstruct DitchesLF033Erosion ControlLF311034ROW Acquisition (Ferrari Ranch Road) **LS035ROW Acquisition (Oak Tree Lane - North) **LS036ROW Acquisition (Oak Tree Lane - North) **LS037Grind and Remove PavementSF038Grind and OverlaySF039Retrofit UtilitiesEA040Dewatering - Ferrari Ranch RoadEA041Dewatering - Oak Tree near So. Ingram SloughEA042Dewatering - Oak Tree near new lakeEA044Split Rail FencingLF98045FRR Supplemental Topo + Aerial TopoJOB046Remediation Trench and MonitoringJOB0	\$3.00 \$6	-	_			
33Erosion ControlLF311034ROW Acquisition (Ferrari Ranch Road) **LS0\$100,35ROW Acquisition (Oak Tree Lane - North) **LS0\$500,36ROW Acquisition (Oak Tree Lane - South) **LS0\$50,37Grind and Remove PavementSF0\$30,38Grind and OverlaySF0\$33,40Dewatering - Ferrari Ranch RoadEA0\$25,41Dewatering - Oak Tree near So. Ingram SloughEA0\$50,42Dewatering - Oak Tree near new lakeEA0\$75,43Golf Course Fence and NettingLF980\$4445FRR Supplemental Topo + Aerial TopoJOB0\$1,000,46Remediation Trench and MonitoringJOB0\$1,000,	\$3.00 \$1					
34ROW Acquisition (Ferrari Ranch Road) **LS0\$100,35ROW Acquisition (Oak Tree Lane - North) **LS0\$500,36ROW Acquisition (Oak Tree Lane - South) ***LS0\$50,37Grind and Remove PavementSF0\$50,38Grind and OverlaySF0\$3,40Dewatering - Ferrari Ranch RoadEA0\$25,41Dewatering - Gak Tree near So. Ingram SloughEA0\$50,42Dewatering - Oak Tree near new lakeEA0\$75,43Golf Course Fence and NettingLF980\$4444Split Rail FencingLF980\$12,46Remediation Trench and MonitoringJOB0\$1,000,		\$25.00				
35ROW Acquisition (Oak Tree Lane - North) **LS0\$500,36ROW Acquisition (Oak Tree Lane - South) ***LS0\$50,37Grind and Remove PavementSF0\$50,38Grind and OverlaySF0\$3,39Retrofit UtilitiesEA0\$3,40Dewatering - Ferrari Ranch RoadEA0\$25,41Dewatering - Oak Tree near So. Ingram SloughEA0\$50,42Dewatering - Oak Tree near new lakeEA0\$75,43Golf Course Fence and NettingLF550\$44Split Rail FencingLF980\$12,46Remediation Trench and MonitoringJOB0\$1,000,		\$100,000.00				
36ROW Acquisition (Oak Tree Lane - South) ***LS0\$50,37Grind and Remove PavementSF038Grind and OverlaySF039Retrofit UtilitiesEA0\$3,40Dewatering - Ferrari Ranch RoadEA0\$25,41Dewatering - Oak Tree near So. Ingram SloughEA0\$50,42Dewatering - Oak Tree near new lakeEA0\$75,43Golf Course Fence and NettingLF550\$44Split Rail FencingLF9804545FRR Supplemental Topo + Aerial TopoJOB0\$1,000,46Remediation Trench and MonitoringJOB0\$1,000,		\$500,000.00	_			
37Grind and Remove PavementSF038Grind and OverlaySF039Retrofit UtilitiesEA040Dewatering - Ferrari Ranch RoadEA041Dewatering - Oak Tree near So. Ingram SloughEA042Dewatering - Oak Tree near new lakeEA043Golf Course Fence and NettingLF55044Split Rail FencingLF98045FRR Supplemental Topo + Aerial TopoJOB0\$1,000,46Remediation Trench and MonitoringJOB0\$1,000,		\$50,000.00	-			
38Grind and OverlaySF039Retrofit UtilitiesEA0\$3,40Dewatering - Ferrari Ranch RoadEA0\$25,41Dewatering - Oak Tree near So. Ingram SloughEA0\$50,42Dewatering - Oak Tree near new lakeEA0\$75,43Golf Course Fence and NettingLF550\$44Split Rail FencingLF9804545FRR Supplemental Topo + Aerial TopoJOB0\$1,000,46Remediation Trench and MonitoringJOB0\$1,000,	\$3.00					
39Retrofit UtilitiesEA0\$3,40Dewatering - Ferrari Ranch RoadEA0\$25,41Dewatering - Oak Tree near So. Ingram SloughEA0\$50,42Dewatering - Oak Tree near new lakeEA0\$75,43Golf Course Fence and NettingLF550\$44Split Rail FencingLF9804545FRR Supplemental Topo + Aerial TopoJOB0\$1,000,46Remediation Trench and MonitoringJOB0\$1,000,	\$2.00		_			
40Dewatering - Ferrari Ranch RoadEA0\$25,41Dewatering - Oak Tree near So. Ingram SloughEA0\$50,42Dewatering - Oak Tree near new lakeEA0\$75,43Golf Course Fence and NettingLF550\$44Split Rail FencingLF980\$45FRR Supplemental Topo + Aerial TopoJOB0\$12,46Remediation Trench and MonitoringJOB0\$1,000,		\$3,000.00				
41Dewatering - Oak Tree near So. Ingram SloughEA0\$50,42Dewatering - Oak Tree near new lakeEA0\$75,43Golf Course Fence and NettingLF550\$44Split Rail FencingLF9804545FRR Supplemental Topo + Aerial TopoJOB0\$12,46Remediation Trench and MonitoringJOB0\$1,000,		\$25,000.00	-			
42Dewatering - Oak Tree near new lakeEA0\$75,43Golf Course Fence and NettingLF550\$44Split Rail FencingLF98045FRR Supplemental Topo + Aerial TopoJOB0\$12,46Remediation Trench and MonitoringJOB0\$1,000,		\$50,000.00				
43Golf Course Fence and NettingLF550\$44Split Rail FencingLF98045FRR Supplemental Topo + Aerial TopoJOB0\$12,46Remediation Trench and MonitoringJOB0\$1,000,		\$75,000.00			0	
44Split Rail FencingLF98045FRR Supplemental Topo + Aerial TopoJOB0\$12,46Remediation Trench and MonitoringJOB0\$1,000,		\$133.00	-		· · ·	
45FRR Supplemental Topo + Aerial TopoJOB0\$12,46Remediation Trench and MonitoringJOB0\$1,000,		\$45.00				
46 Remediation Trench and Monitoring JOB 0 \$1,000,		\$12,500.00				
, , , , , , , , , , , , , , , , , , ,		\$1,000,000.00	_			
4/   I rattic Control   JOB   1  \$100.		\$100,000.00	1	JOB	Traffic Control	47
		\$250,000.00				
		\$5,500,000.00				

\*\*\* ROW Acquisition includes mapping.

FRAYJI

Contingency Based upon Hard Costs (15%): \$1,02 Soft Costs Contingency (17%): \$1,16

\$1,025,700 \$1,162,500

\*\* ROW Acquisition includes mapping, purchasing the land,

TOTAL CIRCULATION \$9,026,300

民	FRAYJI	
G	DESIGN GROUP	

	ak Tree Lane 12				
Item #	Description	Unit	Quantity	Unit Price	Amount
Backbon	ne Roadway System				
1	Mobilization	JOB	1	\$50,000.00	\$50,00
2	Excavation	CY	0	\$7.00	\$30,00 \$
3	4" AB (Under Curb & Gutter and Sidewalk)	SF	8820	\$1.80	\$15,90
4	16" AB (assumes a Traffic Index of 9)	SF	21560	\$2.25	\$48,50
5	5" AC (assumes a Traffic Index of 9)	SF	21560	\$2.70	\$58,30
6	18" AB (assumes a Traffic Index of 11)	SF	0	\$2.50	ç
7	7" AC (assumes a Traffic Index of 11)	SF	0	\$4.00	ç
8	Decomposed Granite Trail (4' width, 4" thick)	SF	0	\$1.80	ç
9	4" AB Shoulder (2' width)	SF	0	\$1.20	¢
10	Subgrade Street Prep (Street)	SF	21560	\$0.25	\$5,40
11	Subgrade Prep (Curb & Gutter)	SF	8820	\$0.30	\$2,70
12	Subgrade Prep (AB Shoulder)	SF	0	\$0.30	ç
13	Subgrade Prep (DG Trail)	SF	0	\$0.30	ç
14	Signing and Striping (36' ROW)*	LF	980	\$15.00	\$14,70
15	Traffic Signals	EA	0	\$320,000.00	Ş
16	Future Traffic Signal	EA	0	\$275,000.00	ç
17	Signalized Intersection	EA	0	\$900,000.00	
18	Sidewalk, Concrete	SF	5880	\$6.00	\$35,30
19	Roundabout	EA LF	0	\$100,000.00	¢112.70
20 21	Joint Trench Underground Existing Utilities in Joint Trench		980	\$115.00 \$360.00	\$112,70
21	Type 5 Curb Median		0	\$12.00	
22	Median Landscaping	SF	5880	\$12.00	ş \$26,50
23	Frontage Landscaping	SF	0	\$4.50	,50,50
25	Signal Conduit and Wiring	EA	0	\$75,000.00	, ,
26	Curb and Gutter	LF	980	\$27.00	\$26,50
27	AC Driveway (Per Approx. 12' wide)	EA	0	\$960.00	<i>φ</i> 20)00
28	Irrigation Sleeves	LF	0	\$15.00	
29	Street Lights (every 150 LF)	EA	7	\$6,000.00	\$42,00
30	Sawcut and Pavement Removal Median	LF	0	\$20.00	Ş
31	Sawcut and Pavement Removal	LF	0	\$3.00	¢
32	Reconstruct Ditches	LF	0	\$3.00	
33	Erosion Control	LF	980	\$25.00	\$24,50
34	ROW Acquisition (Ferrari Ranch Road) **	LS	0	\$100,000.00	ç
35	ROW Acquisition (Oak Tree Lane - North) **	LS	0	\$500,000.00	( 1
36	ROW Acquisition (Oak Tree Lane - South) ***	LS	0	\$50,000.00	( 1
37	Grind and Remove Pavement	SF	0	\$3.00	
38	Grind and Overlay	SF	0	\$2.00	( 1
39	Retrofit Utilities	EA	0	\$3,000.00	
40	Dewatering - Ferrari Ranch Road	EA	0	\$25,000.00	
41	Dewatering - Oak Tree near So. Ingram Slough	EA	0	\$50,000.00	
42	Dewatering - Oak Tree near new lake	EA	0	\$75,000.00	672.20
43	Golf Course Fence and Netting		550	\$133.00	\$73,20
44	Split Rail Fencing		980	\$45.00	\$44,1
45	FRR Supplemental Topo + Aerial Topo	JOB	0	\$12,500.00	
46	Remediation Trench and Monitoring	JOB	0	\$1,000,000.00	
47	Traffic Control Traffic Control Oak Tree Lane	JOB	0	\$100,000.00	
48 49	Bridge (at Auburn Ravine on Oak Tree Lane)	JOB EA	0	\$250,000.00	\$5 500 0
49	Construction Total:	EA	1	\$5,500,000.00	\$5,500,0 \$6,080,3

\* Cost per linear foot of roadway.

\*\* ROW Acquisition includes mapping, purchasing the land,

**Soft Costs Contingency (17%):** \$1,033,700

\*\*\* ROW Acquisition includes mapping.

TOTAL CIRCULATION \$8,026,000

Contingency Based upon Hard Costs (15%): \$912,000

民	FRAYJI DESIGN GROUP	
G	DESIGN GROUP	

	Description	Unit	Quantity	Linit Dries	Amount
tem #	Description	Unit	Quantity	Unit Price	Amount
Backbo	ne Roadway System				
1	Mobilization	JOB	0.5	\$50,000.00	\$25,0
2	Excavation	CY	0	\$7.00	
3	4" AB (Under Curb & Gutter and Sidewalk)	SF	6090	\$1.80	\$11,0
4	16" AB (assumes a Traffic Index of 9)	SF	20300	\$2.25	\$45,7
5	5" AC (assumes a Traffic Index of 9)	SF	20300	\$2.70	\$54,8
6	18" AB (assumes a Traffic Index of 11)	SF	0	\$2.50	
7	7" AC (assumes a Traffic Index of 11)	SF	0	\$4.00	
8	Decomposed Granite Trail (4' width, 4" thick)	SF	0	\$1.80	
9	4" AB Shoulder (2' width)	SF	0	\$1.20	
10	Subgrade Street Prep (Street)	SF	20300	\$0.25	\$5,1
11	Subgrade Prep (Curb & Gutter)	SF	6090	\$0.30	\$1,8
12	Subgrade Prep (AB Shoulder)	SF	0	\$0.30	
13	Subgrade Prep (DG Trail)	SF	0	\$0.30	
14	Signing and Striping (36' ROW)*	LF	2030	\$15.00	\$30,5
15	Traffic Signals	EA	0	\$320,000.00	
16	Future Traffic Signal	EA	0	\$275,000.00	
17	Signalized Intersection	EA	0	\$900,000.00	
18	Sidewalk, Concrete	SF	0	\$6.00	
19	Roundabout	EA	0	\$100,000.00	
20	Joint Trench	LF	2030	\$115.00	\$233,5
21	Underground Existing Utilities in Joint Trench	LF	0	\$360.00	
22	Type 5 Curb Median	LF	0	\$12.00	
23	Median Landscaping	SF	0	\$4.50	
24	Frontage Landscaping	SF	0	\$4.50	
25	Signal Conduit and Wiring	EA	0	\$75,000.00	
26	Curb and Gutter	LF	2030	\$27.00	\$54,8
27	AC Driveway (Per Approx. 12' wide)	EA	0	\$960.00	
28	Irrigation Sleeves	LF	0	\$15.00	
29	Street Lights (every 150 LF)	EA	14	\$6,000.00	\$84,0
30	Sawcut and Pavement Removal Median	LF	0	\$20.00	
31	Sawcut and Pavement Removal	LF	2030	\$3.00	\$6,
32	Reconstruct Ditches	LF	0	\$3.00	
33	Erosion Control	LF	2030	\$25.00	\$50,8
34	ROW Acquisition (Ferrari Ranch Road) **	LS	0	\$100,000.00	
35	ROW Acquisition (Oak Tree Lane - North) **	LS	0	\$500,000.00	
36	ROW Acquisition (Oak Tree Lane - South) ***	LS	0	\$50,000.00	
37	Grind and Remove Pavement	SF	0	\$3.00	
38	Grind and Overlay	SF	0	\$2.00	
39	Retrofit Utilities	EA	0	\$3,000.00	
40	Dewatering - Ferrari Ranch Road	EA	0	\$25,000.00	
41	Dewatering - Oak Tree near So. Ingram Slough	EA	0	\$50,000.00	
42	Dewatering - Oak Tree near new lake	EA	0	\$75,000.00	
43	Golf Course Fence and Netting	LF	0	\$133.00	
44	Split Rail Fencing	LF	0	\$45.00	
45	FRR Supplemental Topo + Aerial Topo	JOB	0	\$12,500.00	
46	Remediation Trench and Monitoring	JOB	0	\$1,000,000.00	
47	Traffic Control	JOB	1	\$100,000.00	\$50,0
				4050 000 00	
48	Traffic Control Oak Tree Lane Bridge (at Auburn Ravine on Oak Tree Lane)	JOB	0	\$250,000.00	

 $^{\ast\ast}$  ROW Acquisition includes mapping, purchasing the land,

\*\*\* ROW Acquisition includes mapping.

TOTAL CIRCULATION \$862,100

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Soft Costs Contingency (17%):
 \$98,000

 \$111,000
 \$111,000



	Virginiatown Road 3			•	
tem #	Description	Unit	Quantity	Unit Price	Amount
Backbo	one Roadway System				
			1		
1	Mobilization	JOB	0.5	\$50,000.00	\$25,0
2	Excavation	CY	0	\$7.00	
3	4" AB (Under Curb & Gutter and Sidewalk)	SF	300	\$1.80	\$5
4 5	16" AB (assumes a Traffic Index of 9) 5" AC (assumes a Traffic Index of 9)	SF SF	900 900	\$2.25 \$2.70	\$2,0 \$2,4
6	18" AB (assumes a Traffic Index of 11)	SF	900	\$2.70	۶۲,۲
7	7" AC (assumes a Traffic Index of 11)	SF	0	\$4.00	
8	Decomposed Granite Trail (4' width, 4" thick)	SF	0	\$4.00	
9	4" AB Shoulder (2' width)	SF	0	\$1.20	
10	Subgrade Street Prep (Street)	SF	900	\$0.25	\$2
11	Subgrade Prep (Curb & Gutter)	SF	300	\$0.30	\$:
12	Subgrade Prep (AB Shoulder)	SF	0	\$0.30	
13	Subgrade Prep (DG Trail)	SF	0	\$0.30	
14	Signing and Striping (36' ROW)*	LF	100	\$15.00	\$1,
15	Traffic Signals	EA	0	\$320,000.00	
16	Future Traffic Signal	EA	0	\$275,000.00	
17	Signalized Intersection	EA	0	\$900,000.00	
18	Sidewalk, Concrete	SF	0	\$6.00	
19	Roundabout	EA	0	\$100,000.00	
20	Joint Trench	LF	100	\$115.00	\$11,
21	Underground Existing Utilities in Joint Trench	LF	0	\$360.00	
22	Type 5 Curb Median	LF	0	\$12.00	
23	Median Landscaping	SF	0	\$4.50	
24	Frontage Landscaping	SF	0	\$4.50	
25 26	Signal Conduit and Wiring	EA LF	0	\$75,000.00	ća
26	Curb and Gutter AC Driveway (Per Approx. 12' wide)	EA	100	\$27.00 \$960.00	\$2,
27	Irrigation Sleeves	LF	0	\$960.00	
20	Street Lights (every 150 LF)	EA	1	\$6,000.00	\$6,
30	Sawcut and Pavement Removal Median	LF	0	\$20.00	,υç
31	Sawcut and Pavement Removal	LF	100	\$3.00	\$
32	Reconstruct Ditches	LF	0	\$3.00	Ŧ
33	Erosion Control	LF	100	\$25.00	\$2,
34	ROW Acquisition (Ferrari Ranch Road) **	LS	0	\$100,000.00	. ,
35	ROW Acquisition (Oak Tree Lane - North) **	LS	0	\$500,000.00	
36	ROW Acquisition (Oak Tree Lane - South) ***	LS	0	\$50,000.00	
37	Grind and Remove Pavement	SF	0	\$3.00	
38	Grind and Overlay	SF	0	\$2.00	
39	Retrofit Utilities	EA	0	\$3,000.00	
40	Dewatering - Ferrari Ranch Road	EA	0	\$25,000.00	
41	Dewatering - Oak Tree near So. Ingram Slough	EA	0	\$50,000.00	
42	Dewatering - Oak Tree near new lake	EA	0	\$75,000.00	
43	Golf Course Fence and Netting	LF	0	\$133.00	
44	Split Rail Fencing	LF	0	\$45.00	
45	FRR Supplemental Topo + Aerial Topo	JOB	0	\$12,500.00	
46	Remediation Trench and Monitoring	JOB	0	\$1,000,000.00	±= -
47	Traffic Control	JOB	1	\$100,000.00	\$50 <i>,</i>
48	Traffic Control Oak Tree Lane	JOB	0	\$250,000.00	
49	Bridge (at Auburn Ravine on Oak Tree Lane)	EA	0	\$5,500,000.00	\$104,

Contingency Based upon Hard Costs (15%): \$15,700 Soft Costs Contingency (17%):

\$17,800

 $^{\ast\ast}$  ROW Acquisition includes mapping, purchasing the land,

\*\*\* ROW Acquisition includes mapping.

TOTAL CIRCULATION \$138,200

# APPENDIX 7 Lincoln Village 1 Specific Plan Infrastructure Finance Plan Circulation Phasing



#### **Circulation Phasing per City and Village 1**

Appendix 7

August	9,	2016
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	Facility	Begin Improvement Plan Design by Building Permit [3] [4]	Bid Awarded by Building Permit [3] [4]	In Use by Building Permit [3] [4]
	Infrastructure Elements + PFE Eligible Infrastructure Elements [1]			
1	McBean Park Drive and State Route 193 - North Side From Ferrari Ranch Road to 900 LF past Oak Tree Lane - 2 Westbound Lanes and 1 Eastbound Lane, including traffic signals	1000	1300	1400
2	Oak Tree Lane - McBean Park Drive/State Route 193 to Sierra College Boulevard or State Route 193, 2 lanes with landscaped median and traffic signal at McBean Park Drive and Sierra College Boulevard	500 EDU's [2]	700 EDU's [2]	1000 EDU's [2]
3	State Route 193, North Side - from 900 LF past Oak Tree Lane to the Village 1 Boundary, 2 Westbound Lanes and 1 Eastbound Lane, East of the North South Collector and 1 lane each direction after that, including traffic signals	1000	1300	1400
4	McBean Park Drive and State Route 193 - South Side from Ferrari Ranch Road to 900 LF past Oak Tree Lane, 1 eastbound lane	1900	2100	2300
5	State Route 193 - from 900 LF past Oak Tree Lane to the Village 1 Boundary, south side improvements 1 eastbound lane	2500	2700	3000
6	Oak Tree Lane - Ferrari Ranch Road to Virginia Town Road, 2 lanes with landscaped median, 2 lane bridge, traffic signal at Virginatown Road and traffic signal at Ferrari Ranch Road and Oak Tree Lane	3000	3200	3500
7	Ferrari Ranch Road - McBean Park Drive to La Bella Rosa Entrance	As required for development	As required for development	As required for development
8	Oak Tree Lane - McBean Park Drive/State Route 193 to La Bella Rosa Entrance, 2 lanes with landscaped median and traffic signal at McBean Park Drive and Ferrari Ranch Road	As required for development	As required for development	As required for development
9	Virginiatown Road - widen south side to ultimate width	As required for development	As required for development	As required for development
	Infrastructure Elements with No PFE Eligible Infrastructure Elements			
10	Ferrari Ranch Road - La Bella Rosa Entrance to Oak Tree Lane, 2 Lanes with Landscaped Median.	By the 91st building unit in La Bella Rosa or 3 years after 1st La Bella Rosa building unit	By the 91st building unit in La Bella Rosa or 3 years after 1st La Bella Rosa building unit	By the 91st building unit in La Bella Rosa or 3 years after 1st La Bella Rosa building unit
11	Oak Tree Lane - La Bella Rosa Entrance to Ferrari Ranch Road, 2 lanes with landscaped median	2700	2900	3200
	Only PFE Eligible Infrastructure Elements [1]	ſ		
12	Ferrari Ranch Road - McBean Park Drive South to Existing Bridge - 2 westerly lanes including median landscaping	500	900	1200
13	Ferrari Ranch Road - McBean Park Drive South to Existing Bridge - Frontage landscaping on the west side of the road	1500	1700	2000
14	Sierra College Boulevard and Twelve Bridges Drive Intersection - traffic signal and widening as necessary for the signal operation	Dictated by Warrants	Dictated by Warrants	Dictated by Warrants

[1] PFE Eligible Infrastructure items will be paid with available Village 1 Impact Fees collected.

[2] Assumes 1000 edu south of McBean Park Drive (limited to Village 1 projects, Excludes Crocker Knoll and VMU parcel on the corner of Oak Tree Lane and McBean Park Drive).

[3] Staff has flexibility to amend thresholds by up to 300 building permits to meet change in improvement timing based upon construction conditions or actual construction costs incurred.
 [4] If available PFE funding is decreased due to allocation of money to critical facilities, then Staff shall have ability to adjust thresholds for facilities to be constructed.

# APPENDIX 8 Lincoln Village 1 Specific Plan Infrastructure Finance Plan Trails





Engineer's Opinion of Costs	
Village 1	
Trails Summary by Phase	
Description	Trails
Infrastructure Costs	
Phase 1	\$282,200
Phase 2	\$471,400
Phase 3	\$377,400
Phase 4	\$74,200
Phase 5	\$800,500
Phase 6	\$206,200
Phase 7	\$177,600
Phase 8	\$243,200
Subtotal	\$2,632,700



Engineer's	<b>Opinion of</b>	Costs
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Engineer's Opini Village 1 - Trails

villaye i						
Summar	у					
Item #	Description	Unit	Quantity	Unit Price	Amount	
Trails						
Village 1						
Infrastruc	ture Trails					
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	90880	\$3.25	\$295,300	
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	157650	\$3.75	\$591,300	
3	Subgrade Prep (AC Trail)	SF	248530	\$0.30	\$74,500	
4	Signing and Striping (10' ROW)	LF	15765	\$3.00	\$47,300	
Sub	total Infrastructure Trails Construction Total:				\$1,008,400	
Builder T	rails					
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0	
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	226600	\$3.75	\$849,800	
3	Subgrade Prep (AC Trail)	SF	226600	\$0.30	\$68,100	
4	Signing and Striping (10' ROW)	LF	22660	\$3.00	\$68,100	
	Subtotal Builders Trails Construction Total:				\$986,000	
	Subtotal Trails Construction Total:				\$1,994,400	

Contingency Based upon Hard Costs (15%): \$299,200

Soft Costs Contingency (17%): \$339,100

> TOTAL TRAILS \$2,632,700



Engineer's	Opinion	of Costs
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### Village 1 - Trails

village i					
Phase 1	Summary				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastruc	ture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	14160	\$3.25	\$46,000
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	37600	\$3.75	\$141,000
3	Subgrade Prep (AC Trail)	SF	51760	\$0.30	\$15,500
4	Signing and Striping (10' ROW)	LF	3760	\$3.00	\$11,300
Sub	total Infrastructure Trails Construction Total:				\$213,800
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
	Subtotal Builders Trails Construction Total:				\$0
	Subtotal Trails Construction Total:				\$213,800

Contingency Based upon Hard Costs (15%): \$32,100

Soft Costs Contingency (17%): \$36,300

TOTAL TRAILS \$282,200



Enginee	er's Opinion of Costs				
-	1 - Trails				
-	Ferrari Ranch Road 1				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastru	cture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	37600	\$3.75	\$141,000
3	Subgrade Prep (AC Trail)	SF	37600	\$0.30	\$11,300
4	Signing and Striping (10' ROW)	LF	3760	\$3.00	\$11,300
Sub	ototal Infrastructure Trails Construction Total:				\$163,600
Builder 7	Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
	Subtotal Builders Trails Construction Total:				\$0
	Subtotal Trails Construction Total:				\$163,600

Contingency Based upon Hard Costs (15%): \$24,600

Soft Costs Contingency (17%): \$27,800

TOTAL TRAILS \$216,000

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Enginee	r's Opinion of Costs				
-	I - Trails				
	McBean Park Drive 1				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastru	cture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	2800	\$3.25	\$9,100
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$C
3	Subgrade Prep (AC Trail)	SF	2800	\$0.30	\$800
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
Sub	total Infrastructure Trails Construction Total:				\$9,900
Builder T	Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$C
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$C
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$C
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$C
	Subtotal Builders Trails Construction Total:		· ·		\$0
	Subtotal Trails Construction Total:				\$9,900

Contingency Based upon Hard Costs (15%): \$1,500

Soft Costs Contingency (17%): \$1,700

TOTAL TRAILS \$13,100



Enginee	r's Opinion of Costs				
-	I - Trails				
-	McBean Park Drive 2				
Item #		Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastru	cture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	11360	\$3.25	\$36,900
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	11360	\$0.30	\$3,400
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$(
Sub	total Infrastructure Trails Construction Total:				\$40,300
Builder 7	Frails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$(
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
	Subtotal Builders Trails Construction Total:				\$0
	Subtotal Trails Construction Total:				\$40,300

Contingency Based upon Hard Costs (15%): \$6,000

Soft Costs Contingency (17%): \$6,800

TOTAL TRAILS \$53,100



Enginee	r's Opinion of Costs				
-	- Trails				
-	Summary				
ltem #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastru	cture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$C
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$C
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$C
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$C
Sub	total Infrastructure Trails Construction Total:				\$0
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$C
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	82100	\$3.75	\$307,900
3	Subgrade Prep (AC Trail)	SF	82100	\$0.30	\$24,600
4	Signing and Striping (10' ROW)	LF	8210	\$3.00	\$24,600
	Subtotal Builders Trails Construction Total:				\$357,100
	Subtotal Trails Construction Total:				\$357,100

Contingency Based upon Hard Costs (15%): \$53,600

Soft Costs Contingency (17%): \$60,700

TOTAL TRAILS \$471,400



Enginee	r's Opinion of Costs				
Village 1	•				
-	Turkey Creek Estates 1				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastruc	ture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$(
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$(
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
Sub	total Infrastructure Trails Construction Total:				\$0
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	61850	\$3.75	\$232,000
3	Subgrade Prep (AC Trail)	SF	61850	\$0.30	\$18,500
4	Signing and Striping (10' ROW)	LF	6185	\$3.00	\$18,500
	Subtotal Builders Trails Construction Total:				\$269,000
	Subtotal Trails Construction Total:				\$269,000

Contingency Based upon Hard Costs (15%): \$40,400

Soft Costs Contingency (17%): \$45,700

**TOTAL TRAILS** \$355,100



Enginee	r's Opinion of Costs				
Village 1	- Trails				
Phase 2	Hidden Hills 1				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastru	cture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$C
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$C
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$C
Sub	total Infrastructure Trails Construction Total:				\$0
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$C
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	20250	\$3.75	\$75,900
3	Subgrade Prep (AC Trail)	SF	20250	\$0.30	\$6,100
4	Signing and Striping (10' ROW)	LF	2025	\$3.00	\$6,100
	Subtotal Builders Trails Construction Total:			•	\$88,100
	Subtotal Trails Construction Total:				\$88,100

Contingency Based upon Hard Costs (15%): \$13,200

Soft Costs Contingency (17%): \$15,000

TOTAL TRAILS \$116,300



Enginee	r's Opinion of Costs				
-	- Trails				
-	Summary				
ltem #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastru	cture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	15200	\$3.25	\$49,400
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	17400	\$3.75	\$65,300
3	Subgrade Prep (AC Trail)	SF	32600	\$0.30	\$9,800
4	Signing and Striping (10' ROW)	LF	1740	\$3.00	\$5,200
Sub	total Infrastructure Trails Construction Total:				\$129,700
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	35900	\$3.75	\$134,600
3	Subgrade Prep (AC Trail)	SF	35900	\$0.30	\$10,800
4	Signing and Striping (10' ROW)	LF	3590	\$3.00	\$10,800
	Subtotal Builders Trails Construction Total:				\$156,200
	Subtotal Trails Construction Total:				\$285,900

Contingency Based upon Hard Costs (15%): \$42,900

Soft Costs Contingency (17%): \$48,600

TOTAL TRAILS \$377,400



Enginee	r's Opinion of Costs				
-	l - Trails				
-	Ferrari Ranch Road 2				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastru	cture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	17400	\$3.75	\$65,300
3	Subgrade Prep (AC Trail)	SF	17400	\$0.30	\$5,300
4	Signing and Striping (10' ROW)	LF	1740	\$3.00	\$5,200
Sub	total Infrastructure Trails Construction Total:				\$75,800
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
	Subtotal Builders Trails Construction Total:				\$0
	Subtotal Trails Construction Total:				\$75,800

Contingency Based upon Hard Costs (15%): \$11,300

Soft Costs Contingency (17%): \$13,000

TOTAL TRAILS \$100,100

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-	r's Opinion of Costs				
-	I - Trails McBean Park Drive 3				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastru	cture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	2400	\$3.25	\$7,80
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$(
3	Subgrade Prep (AC Trail)	SF	2400	\$0.30	\$70
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$
Sub	total Infrastructure Trails Construction Total:				\$8,500
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$(
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$(
	Subtotal Builders Trails Construction Total:		· ·		\$0
	Subtotal Trails Construction Total:				\$8,500

Contingency Based upon Hard Costs (15%): \$1,300

Soft Costs Contingency (17%): \$1,400

TOTAL TRAILS \$11,200



	North of McBean Park Drive 4				
Item #	Description	Unit	Quantity	Unit Price	Amount
Tasila					
Trails					
Village 1					
Infrastrue	cture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	12800	\$3.25	\$41,600
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$C
3	Subgrade Prep (AC Trail)	SF	12800	\$0.30	\$3,800
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
Sub	total Infrastructure Trails Construction Total:			<b>_</b>	\$45,400
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$C
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
	Subtotal Builders Trails Construction Total:			<u>.</u>	\$0
	Subtotal Trails Construction Total:				\$45,400

**Contingency Based upon Hard Costs (15%):** \$6,800

Soft Costs Contingency (17%): \$7,700

TOTAL TRAILS \$59,900

B	FRAYJ	[
B	DESIGN GROUI	9

Enginee	r's Opinion of Costs				
-	I - Trails				
-	Ingram Slough 2				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastru	cture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$(
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$(
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
Sub	total Infrastructure Trails Construction Total:			-	\$0
Builder 7	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	15700	\$3.75	\$58,800
3	Subgrade Prep (AC Trail)	SF	15700	\$0.30	\$4,800
4	Signing and Striping (10' ROW)	LF	1570	\$3.00	\$4,800
	Subtotal Builders Trails Construction Total:				\$68,400
	Subtotal Trails Construction Total:				\$68,400

Contingency Based upon Hard Costs (15%): \$10,300

Soft Costs Contingency (17%): \$11,600

TOTAL TRAILS \$90,300

Date: 8/9/2016

B	FRAYJI	
B	DESIGN GROUP	

Enginee	er's Opinion of Costs				
-	1 - Trails				
-	Ingram Slough 3				
Item #		Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastru	cture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$(
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$(
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$(
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
Sub	ototal Infrastructure Trails Construction Total:			-	\$0
Builder 7	Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	5800	\$3.75	\$21,800
3	Subgrade Prep (AC Trail)	SF	5800	\$0.30	\$1,700
4	Signing and Striping (10' ROW)	LF	580	\$3.00	\$1,700
	Subtotal Builders Trails Construction Total:				\$25,200
	Subtotal Trails Construction Total:				\$25,200

Contingency Based upon Hard Costs (15%): \$3,800

Soft Costs Contingency (17%): \$4,300

TOTAL TRAILS \$33,300

B	FRAY	Ι
B	DESIGN GRO	UP

Village 1					
Phase 3 Item #	Oak Tree Lane 1 Description	Unit	Quantity	Unit Price	Amount
	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastru	cture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$(
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$(
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$
Sub	total Infrastructure Trails Construction Total:		•	•	\$(
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	14400	\$3.75	\$54,00
3	Subgrade Prep (AC Trail)	SF	14400	\$0.30	\$4,300
4	Signing and Striping (10' ROW)	LF	1440	\$3.00	\$4,300
	Subtotal Builders Trails Construction Total:				\$62,600
	Subtotal Trails Construction Total:				\$62,600

Contingency Based upon Hard Costs (15%): \$9,400

> Soft Costs Contingency (17%): \$10,600

> > \$82,600



Enginee	r's Opinion of Costs				
Village 1					
	Summary				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastru	cture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$C
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	6000	\$3.75	\$22,500
3	Subgrade Prep (AC Trail)	SF	6000	\$0.30	\$1,800
4	Signing and Striping (10' ROW)	LF	600	\$3.00	\$1,800
Sub	total Infrastructure Trails Construction Total:				\$26,100
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	6900	\$3.75	\$25,900
3	Subgrade Prep (AC Trail)	SF	6900	\$0.30	\$2,100
4	Signing and Striping (10' ROW)	LF	690	\$3.00	\$2,100
	Subtotal Builders Trails Construction Total:				\$30,100
	Subtotal Trails Construction Total:				\$56,200

Contingency Based upon Hard Costs (15%): \$8,400

Soft Costs Contingency (17%): \$9,600

TOTAL TRAILS \$74,200



Enginee	r's Opinion of Costs				
Village 1					
-	Regional Park 4				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastruc	cture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
Sub	total Infrastructure Trails Construction Total:				\$0
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	6900	\$3.75	\$25,900
3	Subgrade Prep (AC Trail)	SF	6900	\$0.30	\$2,100
4	Signing and Striping (10' ROW)	LF	690	\$3.00	\$2,100
	Subtotal Builders Trails Construction Total:				\$30,100
	Subtotal Trails Construction Total:				\$30,100

Contingency Based upon Hard Costs (15%): \$4,500

Soft Costs Contingency (17%): \$5,200

TOTAL TRAILS \$39,800



Enginee	r's Opinion of Costs				
-	I - Trails				
-	To Tank 1				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastru	cture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$C
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	6000	\$3.75	\$22,500
3	Subgrade Prep (AC Trail)	SF	6000	\$0.30	\$1,800
4	Signing and Striping (10' ROW)	LF	600	\$3.00	\$1,800
Sub	total Infrastructure Trails Construction Total:		•	•	\$26,100
Builder 7	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$C
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$C
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$C
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$C
	Subtotal Builders Trails Construction Total:			•	\$0
	Subtotal Trails Construction Total:				\$26,100

Contingency Based upon Hard Costs (15%): \$3,900

Soft Costs Contingency (17%): \$4,400

TOTAL TRAILS \$34,400



Enginee	r's Opinion of Costs				
-	l - Trails				
Phase 5	Summary				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastru	cture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	55920	\$3.25	\$181,700
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	58850	\$3.75	\$220,700
3	Subgrade Prep (AC Trail)	SF	114770	\$0.30	\$34,400
4	Signing and Striping (10' ROW)	LF	5885	\$3.00	\$17,700
Sub	total Infrastructure Trails Construction Total:				\$454,500
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	34900	\$3.75	\$130,900
3	Subgrade Prep (AC Trail)	SF	34900	\$0.30	\$10,500
4	Signing and Striping (10' ROW)	LF	3490	\$3.00	\$10,500
	Subtotal Builders Trails Construction Total:				\$151,900
	Subtotal Trails Construction Total:				\$606,400

Contingency Based upon Hard Costs (15%): \$91,000

Soft Costs Contingency (17%): \$103,100

TOTAL TRAILS \$800,500



	South of State Route 193 1				
Item #	Description	Unit	Quantity	Unit Price	Amount
T					
Trails					
Village 1					
Infrastru	cture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	6080	\$3.25	\$19,800
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	6080	\$0.30	\$1,800
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$(
Sub	total Infrastructure Trails Construction Total:				\$21,600
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$(
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$(
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$(
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$(
	Subtotal Builders Trails Construction Total:		<b>_</b>	<b>.</b>	\$0
	Subtotal Trails Construction Total:				\$21,600

Contingency Based upon Hard Costs (15%): \$3,200

Soft Costs Contingency (17%): \$3,700

TOTAL TRAILS \$28,500



Enginee	r's Opinion of Costs				
Village 1	- Trails				
Phase 5	State Route 193 2				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastru	cture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	15520	\$3.25	\$50,400
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	15520	\$0.30	\$4,700
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
Sub	total Infrastructure Trails Construction Total:				\$55,100
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$(
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
	Subtotal Builders Trails Construction Total:				\$0
	Subtotal Trails Construction Total:				\$55,100

Contingency Based upon Hard Costs (15%): \$8,300

Soft Costs Contingency (17%): \$9,400

TOTAL TRAILS \$72,800

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Enginee	r's Opinion of Costs				
-	- Trails				
	State Route 193 3				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastru	cture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	4720	\$3.25	\$15,300
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	4720	\$0.30	\$1,400
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
Sub	total Infrastructure Trails Construction Total:				\$16,700
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
	Subtotal Builders Trails Construction Total:				\$0
	Subtotal Trails Construction Total:				\$16,700

Contingency Based upon Hard Costs (15%): \$2,500

Soft Costs Contingency (17%): \$2,800

TOTAL TRAILS \$22,000



Enginee	r's Opinion of Costs				
-	- Trails				
	State Route 193 4				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastru	cture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	13920	\$3.25	\$45,200
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	13920	\$0.30	\$4,200
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$C
Sub	total Infrastructure Trails Construction Total:				\$49,400
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$C
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$C
	Subtotal Builders Trails Construction Total:				\$0
	Subtotal Trails Construction Total:				\$49,400

**Contingency Based upon Hard Costs (15%):** \$7,400

Soft Costs Contingency (17%): \$8,400

TOTAL TRAILS \$65,200

民	FRAY	I
B	DESIGN GRO	UP

Enginee	r's Opinion of Costs				
-	l - Trails				
-	ase 5 State Route 193 5				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastru	cture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	8000	\$3.25	\$26,00
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$
3	Subgrade Prep (AC Trail)	SF	8000	\$0.30	\$2,400
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$
Sub	total Infrastructure Trails Construction Total:				\$28,400
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$(
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$(
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$(
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$(
	Subtotal Builders Trails Construction Total:				\$0
	Subtotal Trails Construction Total:				\$28,400

Contingency Based upon Hard Costs (15%): \$4,300

Soft Costs Contingency (17%): \$4,800

TOTAL TRAILS \$37,500

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Enginee	r's Opinion of Costs				
Village 1	-				
Phase 5	Regional Park 1				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastrue	cture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	5550	\$3.75	\$20,800
3	Subgrade Prep (AC Trail)	SF	5550	\$0.30	\$1,700
4	Signing and Striping (10' ROW)	LF	555	\$3.00	\$1,700
Sub	total Infrastructure Trails Construction Total:				\$24,200
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
	Subtotal Builders Trails Construction Total:				\$0
	Subtotal Trails Construction Total:				\$24,200

Contingency Based upon Hard Costs (15%): \$3,600

Soft Costs Contingency (17%): \$4,100

TOTAL TRAILS \$31,900



Enginee	r's Opinion of Costs				
-	- Trails				
Phase 5	Regional Park 2				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastru	cture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$C
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	53300	\$3.75	\$199,900
3	Subgrade Prep (AC Trail)	SF	53300	\$0.30	\$15,900
4	Signing and Striping (10' ROW)	LF	5330	\$3.00	\$16,000
Sub	total Infrastructure Trails Construction Total:				\$231,800
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
	Subtotal Builders Trails Construction Total:				\$0
	Subtotal Trails Construction Total:				\$231,800

Contingency Based upon Hard Costs (15%): \$34,800

Soft Costs Contingency (17%): \$39,400

TOTAL TRAILS \$306,000



Enginee	r's Opinion of Costs				
Village 1					
Phase 5	Regional Park 3				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastru	cture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$(
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$(
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
Sub	total Infrastructure Trails Construction Total:				\$(
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	4150	\$3.75	\$15,600
3	Subgrade Prep (AC Trail)	SF	4150	\$0.30	\$1,200
4	Signing and Striping (10' ROW)	LF	415	\$3.00	\$1,200
	Subtotal Builders Trails Construction Total:				\$18,000
	Subtotal Trails Construction Total:				\$18,000

**Contingency Based upon Hard Costs (15%):** \$2,700

Soft Costs Contingency (17%): \$3,100

TOTAL TRAILS \$23,800

民	FRAYJI	
B	DESIGN GROUP	i

Enginee	r's Opinion of Costs				
Village 1	•				
-	North South Collector 1				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastruc	cture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	7680	\$3.25	\$25,000
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$(
3	Subgrade Prep (AC Trail)	SF	7680	\$0.30	\$2,300
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
Sub	total Infrastructure Trails Construction Total:				\$27,300
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$(
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$(
	Subtotal Builders Trails Construction Total:				\$0
	Subtotal Trails Construction Total:				\$27,300

**Contingency Based upon Hard Costs (15%):** \$4,100

Soft Costs Contingency (17%): \$4,600

TOTAL TRAILS \$36,000

B	FRAYJI	
B	DESIGN GROUP	

_	er's Opinion of Costs				
-	I - Trails				
	Ingram Slough 1	Line 14			A
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastru	cture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
Sub	total Infrastructure Trails Construction Total:				\$0
Builder 7	Frails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	8250	\$3.75	\$30,900
3	Subgrade Prep (AC Trail)	SF	8250	\$0.30	\$2,500
4	Signing and Striping (10' ROW)	LF	825	\$3.00	\$2,500
	Subtotal Builders Trails Construction Total:		· ·	•	\$35,900
	Subtotal Trails Construction Total:				\$35,900

**Contingency Based upon Hard Costs (15%):** \$5,400

Soft Costs Contingency (17%): \$6,100

TOTAL TRAILS \$47,400

民	FRAYJI	
B	DESIGN GROUP	i

-	er's Opinion of Costs 1 - Trails				
-	Ingram Slough 4				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastru	cture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
Sub	ototal Infrastructure Trails Construction Total:			•	\$0
Builder 7	Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	22500	\$3.75	\$84,400
3	Subgrade Prep (AC Trail)	SF	22500	\$0.30	\$6,800
4	Signing and Striping (10' ROW)	LF	2250	\$3.00	\$6,800
	Subtotal Builders Trails Construction Total:		· ·	•	\$98,000
	Subtotal Trails Construction Total:				\$98,000

Contingency Based upon Hard Costs (15%): \$14,700

Soft Costs Contingency (17%): \$16,700

TOTAL TRAILS \$129,400

Date: 8/9/2016



Village 1					
Item #	Summary Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1	I				
Infrastruc	cture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
Sub	total Infrastructure Trails Construction Total:		•		\$0
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	35900	\$3.75	\$134,600
3	Subgrade Prep (AC Trail)	SF	35900	\$0.30	\$10,800
4	Signing and Striping (10' ROW)	LF	3590	\$3.00	\$10,800
	Subtotal Builders Trails Construction Total:				\$156,200
	Subtotal Trails Construction Total:				\$156,200

Contingency Based upon Hard Costs (15%): \$23,400

Soft Costs Contingency (17%): \$26,600

TOTAL TRAILS \$206,200

B	FRAYJI	
B	DESIGN GROUP	

Enginee	er's Opinion of Costs				
Village '	I - Trails				
Phase 6	Ingram Slough 6				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastru	cture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$(
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$(
Sub	total Infrastructure Trails Construction Total:			-	\$0
Builder 7	Frails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$(
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	35900	\$3.75	\$134,600
3	Subgrade Prep (AC Trail)	SF	35900	\$0.30	\$10,800
4	Signing and Striping (10' ROW)	LF	3590	\$3.00	\$10,800
	Subtotal Builders Trails Construction Total:		• •		\$156,200
	Subtotal Trails Construction Total:				\$156,200

Contingency Based upon Hard Costs (15%): \$23,400

Soft Costs Contingency (17%): \$26,600

TOTAL TRAILS \$206,200



Enginee	r's Opinion of Costs				
Village 1					
	Summary				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastruc	cture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$C
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
Sub	total Infrastructure Trails Construction Total:				\$0
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	30900	\$3.75	\$115,900
3	Subgrade Prep (AC Trail)	SF	30900	\$0.30	\$9,300
4	Signing and Striping (10' ROW)	LF	3090	\$3.00	\$9,300
	Subtotal Builders Trails Construction Total:				\$134,500
	Subtotal Trails Construction Total:				\$134,500

Contingency Based upon Hard Costs (15%): \$20,200

Soft Costs Contingency (17%): \$22,900

TOTAL TRAILS \$177,600

B	FRAYJI	
B	DESIGN GROUP	

Enginee	r's Opinion of Costs				
Village <sup>2</sup>	I - Trails				
Phase 7	Ingram Slough 5				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastru	cture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
Sub	total Infrastructure Trails Construction Total:			-	\$0
Builder 7	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	30900	\$3.75	\$115,900
3	Subgrade Prep (AC Trail)	SF	30900	\$0.30	\$9,300
4	Signing and Striping (10' ROW)	LF	3090	\$3.00	\$9,300
	Subtotal Builders Trails Construction Total:		•		\$134,500
	Subtotal Trails Construction Total:				\$134,500

Contingency Based upon Hard Costs (15%): \$20,200

Soft Costs Contingency (17%): \$22,900

TOTAL TRAILS \$177,600



Enginee	r's Opinion of Costs				
-	I - Trails				
-	Summary				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1					
Infrastru	cture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	5600	\$3.25	\$18,200
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	37800	\$3.75	\$141,800
3	Subgrade Prep (AC Trail)	SF	43400	\$0.30	\$13,000
4	Signing and Striping (10' ROW)	LF	3780	\$3.00	\$11,300
Sub	total Infrastructure Trails Construction Total:		•		\$184,300
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$0
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$0
	Subtotal Builders Trails Construction Total:		• •		\$0
	Subtotal Trails Construction Total:				\$184,300

Contingency Based upon Hard Costs (15%): \$27,600

Soft Costs Contingency (17%): \$31,300

TOTAL TRAILS \$243,200

B	FRAY	Ι
B	DESIGN GRO	UP

Enginee	r's Opinion of Costs				
-	I - Trails				
Phase 8	Oak Tree Lane 2				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails					
Village 1	-				
Infrastru	cture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	5600	\$3.25	\$18,200
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$(
3	Subgrade Prep (AC Trail)	SF	5600	\$0.30	\$1,700
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$(
Sub	total Infrastructure Trails Construction Total:				\$19,900
Builder 7	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$(
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$(
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$(
4	Signing and Striping (10' ROW)	LF	0	\$3.00	\$(
	Subtotal Builders Trails Construction Total:		•		\$0
	Subtotal Trails Construction Total:				\$19,900

Contingency Based upon Hard Costs (15%): \$3,000

Soft Costs Contingency (17%): \$3,400

TOTAL TRAILS \$26,300



4

Signing and Striping (10' ROW)

Subtotal Builders Trails Construction Total:

Subtotal Trails Construction Total:

-	- Trails, Landscaping and Parks Turkey Creek Golf Course 1				
Item #	Description	Unit	Quantity	Unit Price	Amount
Trails, I	_andscaping and Parks				
Village 1					
Infrastruc	ture Trails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	37800	\$3.75	\$141,800
3	Subgrade Prep (AC Trail)	SF	37800	\$0.30	\$11,300
4	Signing and Striping (10' ROW)	LF	3780	\$3.00	\$11,300
Sub	total Infrastructure Trails Construction Total:				\$164,400
Builder T	rails				
1	Asphalt Trail (8' w. 3" th., +6" AB)	SF	0	\$3.25	\$0
2	Asphalt Trail (10' w. 3" th., +6" AB)	SF	0	\$3.75	\$0
3	Subgrade Prep (AC Trail)	SF	0	\$0.30	\$C

LF

Contingency Based upon Hard Costs (15%): \$24,600

0

Soft Costs Contingency (17%): \$27,900

TOTAL TRAILS \$216,900

\$3.00

\$0

\$0

\$164,400

APPENDIX 9 Lincoln Village 1 Specific Plan Infrastructure Finance Plan Amenities Element (Non-Potable Water, Frontage Landscape & Regional Park Land Acquisition)





Village 1 Amenities Summary by Phase	Amonities
Amenides Summary by Phase	Ameritica
Description	Amenities
Infrastructure Costs	
Phase 1	\$1,171,500
Phase 2	\$342,600
Phase 3	\$3,080,300
Phase 4	\$390,700
Phase 5	\$563,000
Phase 6	\$164,400
Phase 7	\$184,600
Phase 8	\$0
Subtotal	\$5,897,100



em #	Description	Unit	Quantity	Unit Price	Amount
MENITIE	ES - Includes Non-Potable Water, Fronta	ge Landsc	aping & Regior	al Park Acquis	ition
1	6" Non-Potable Water Line	LF	22125	\$27.00	\$597,30
2	8" Non-Potable Water Line	LF	5945	\$30.00	\$178,4
3	10" Non-Potable Water Line	LF	2440	\$44.00	\$107,4
4	12" Non-Potable Water Line	LF	6800	\$45.00	\$306,1
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	4	\$25,000.00	\$100,0
6	Frontage Landscaping	SF	194200	\$4.50	\$874,0
7	Water Valves (Assume every 500')	EA	73	\$2,500.00	\$182,5
8	Booster Pump	EA	2	\$75,000.00	\$150,0
9	Pumping Station* / Filtration / Standpipe	EA	1	\$350,000.00	\$350,0
10	Flushing Hydrant (End of Line)	EA	3	\$6,000.00	\$18,0
11	Intake	EA	1	\$45,000.00	\$45,0
12	De-chlorination Station	EA	1	\$75,000.00	\$75,0
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	1	\$50,000.00	\$50,0
14	NID Water Diversion Gate	EA	1	\$15,000.00	\$15,0
15	Lake Grading	CY	109715	\$3.75	\$411,4
16	Lake Stabilization	SF	301710	\$1.33	\$401,3

## Contingency Based upon Hard Costs (15%): \$579,200

Soft Costs Contingency (17%): \$656,500

Regional Park Acquisition\*\* \$800,000

## TOTAL AMENITIES \$5,897,100

\* Assumes NID jurisdiction has expanded, therefore no additional Pumping Station is required near Regional Park. \*\* Assumes Regional Park to be purchased in 2 phases; First Phase will be 28.6 acres. If Placer County elects to relocate

corporation yard, then remaining 4 acres will be purchased.



tem #	Description	Unit	Quantity	Unit Price	Amount
MENITIE	ES - Includes Non-Potable Water, Fronta	ige Landso	aping & Regior	al Park Acquis	ition
		•		•	
1	6" Non-Potable Water Line	LF	6220	\$27.00	\$167,90
2	8" Non-Potable Water Line	LF	0	\$30.00	ç
3	10" Non-Potable Water Line	LF	2440	\$44.00	\$107,40
4	12" Non-Potable Water Line	LF	4950	\$45.00	\$222,80
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	3	\$25,000.00	\$75,00
6	Frontage Landscaping	SF	35750	\$4.50	\$160,90
7	Water Valves (Assume every 500')	EA	29	\$2,500.00	\$72,50
8	Booster Pump	EA	1	\$75,000.00	\$75,00
9	Pumping Station* / Filtration / Standpipe	EA	0	\$350,000.00	ç
10	Flushing Hydrant (End of Line)	EA	1	\$6,000.00	\$6,00
11	Intake	EA	0	\$45,000.00	¢,
12	De-chlorination Station	EA	0	\$75,000.00	ç
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$
14	NID Water Diversion Gate	EA	0	\$15,000.00	ç
15	Lake Grading	CY	0	\$3.75	ć
16	Lake Stabilization	SF	0	\$1.33	

## Contingency Based upon Hard Costs (15%): \$133,100

Soft Costs Contingency (17%): \$150,900

Regional Park Acquisition \$0

## TOTAL AMENITIES \$1,171,500

\* Assumes NID jurisdiction has expanded, therefore no additional Pumping Station is required near Regional Park. \*\* Assumes Regional Park to be purchased in 2 phases; First Phase will be 28.6 acres. If Placer County elects to relocate

corporation yard, then remaining 4 acres will be purchased.



Engineer's Opinion of Costs Village 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition Phase 1 Ferrari Ranch Road 2					
Item #	Description	Unit	Quantity	Unit Price	Amount
AMENIT	TIES - Includes Non-Potable Water, Fronta	age Landsc	aping & Re	gional Park Ac	quisition
	· · · · · ·	<b>.</b>		•	•
1	6" Non-Potable Water Line	LF	1370	\$27.00	\$37,000
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0
4	12" Non-Potable Water Line	LF	0	\$45.00	\$0
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	1	\$25,000.00	\$25,000
6	Frontage Landscaping	SF	21750	\$4.50	\$97,900
7	Water Valves (Assume every 500')	EA	3	\$2,500.00	\$7,500
8	Booster Pump	EA	0	\$75,000.00	\$0
9	Pumping Station* / Filtration / Standpipe	EA	0	\$350,000.00	\$0
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0
11	Intake	EA	0	\$45,000.00	\$0
12	De-chlorination Station	EA	0	\$75,000.00	\$0
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0
15	Lake Grading	CY	0	\$3.75	\$0
16	Lake Stabilization	SF	0	\$1.33	\$0
	Construction Total:		·		\$167,400

Contingency Based upon Hard Costs (15%): \$25,100

Soft Costs Contingency (17%): \$28,500

Regional Park Acquisition \$0

TOTAL AMENITIES \$221,000



Engineer's Opinion of Costs Village 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition Phase 1 McBean Park Drive 1						
Item #	Description	Unit	Quantity	Unit Price	Amount	
AMENI	<b>FIES - Includes Non-Potable Water, Front</b>	age Landsc	aping & Re	gional Park A	cquisition	
	· · · · ·	•			•	
1	6" Non-Potable Water Line	LF	0	\$27.00	\$0	
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0	
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0	
4	12" Non-Potable Water Line	LF	300	\$45.00	\$13,500	
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0	
6	Frontage Landscaping	SF	0	\$4.50	\$0	
7	Water Valves (Assume every 500')	EA	1	\$2,500.00	\$2,500	
8	Booster Pump	EA	0	\$75,000.00	\$0	
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0	
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0	
11	Intake	EA	0	\$45,000.00	\$0	
12	De-chlorination Station	EA	0	\$75,000.00	\$0	
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0	
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0	
15	Lake Grading	CY	0	\$3.75	\$0	
16	Lake Stabilization	SF	0	\$1.33	\$0	
	Construction Total:				\$16,000	

Contingency Based upon Hard Costs (15%): \$2,400

Soft Costs Contingency (17%): \$2,700

Regional Park Acquisition \$0

TOTAL AMENITIES \$21,100



Engineer's Opinion of Costs Village 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition Phase 1 McBean Park Drive 2					
Item #	Description	Unit	Quantity	Unit Price	Amount
AMENIT	TES - Includes Non-Potable Water, Fronta	age Landso	aping & Re	gional Park Ac	quisition
				•	•
1	6" Non-Potable Water Line	LF	0	\$27.00	\$0
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0
4	12" Non-Potable Water Line	LF	1420	\$45.00	\$63,900
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0
6	Frontage Landscaping	SF	0	\$4.50	\$0
7	Water Valves (Assume every 500')	EA	3	\$2,500.00	\$7,500
8	Booster Pump	EA	0	\$75,000.00	\$0
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0
11	Intake	EA	0	\$45,000.00	\$0
12	De-chlorination Station	EA	0	\$75,000.00	\$0
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$C
15	Lake Grading	CY	0	\$3.75	\$0
16	Lake Stabilization	SF	0	\$1.33	\$0
	Construction Total:		•		\$71,400

Contingency Based upon Hard Costs (15%): \$10,700

Soft Costs Contingency (17%): \$12,100

Regional Park Acquisition \$0

TOTAL AMENITIES \$94,200



Engineer's Opinion of Costs /illage 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition Phase 1 McBean Park Drive 3					
Item #	Description	Unit	Quantity	Unit Price	Amount
-	•			·	
	<b>FIES - Includes Non-Potable Water, Front</b>	age Landsc	aping & Re	gional Park Ac	quisition
	· · · · · · · · · · · · · · · · · · ·				•
1	6" Non-Potable Water Line	LF	0	\$27.00	\$0
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0
4	12" Non-Potable Water Line	LF	1960	\$45.00	\$88,200
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	1	\$25,000.00	\$25,000
6	Frontage Landscaping	SF	0	\$4.50	\$0
7	Water Valves (Assume every 500')	EA	4	\$2,500.00	\$10,000
8	Booster Pump	EA	0	\$75,000.00	\$0
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0
11	Intake	EA	0	\$45,000.00	\$0
12	De-chlorination Station	EA	0	\$75,000.00	\$0
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0
15	Lake Grading	CY	0	\$3.75	\$0
16	Lake Stabilization	SF	0	\$1.33	\$0
· ·	Construction Total:		· · · · · · · · · · · · · · · · · · ·		\$123,200

Contingency Based upon Hard Costs (15%): \$18,500

Soft Costs Contingency (17%): \$20,900

Regional Park Acquisition \$0

TOTAL AMENITIES \$162,600



Engineer's Opinion of Costs /illage 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition Phase 1 State Route 193 1						
Item #	Description	Unit	Quantity	Unit Price	Amount	
	FIES - Includes Non-Potable Water, Fronta	age Landso	aping & Re	gional Park Ac	cquisition	
1	6" Non-Potable Water Line	LF	850	\$27.00	\$23,000	
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0	
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0	
4	12" Non-Potable Water Line	LF	0	\$45.00	\$0	
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0	
6	Frontage Landscaping	SF	0	\$4.50	\$0	
7	Water Valves (Assume every 500')	EA	2	\$2,500.00	\$5,000	
8	Booster Pump	EA	0	\$75,000.00	\$0	
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0	
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0	
11	Intake	EA	0	\$45,000.00	\$0	
12	De-chlorination Station	EA	0	\$75,000.00	\$0	
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$C	
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0	
15	Lake Grading	CY	0	\$3.75	\$0	
16	Lake Stabilization	SF	0	\$1.33	\$0	
•	Construction Total:				\$28,000	

Contingency Based upon Hard Costs (15%): \$4,200

Soft Costs Contingency (17%): \$4,800

Regional Park Acquisition \$0

TOTAL AMENITIES \$37,000



Engineer's Opinion of Costs Village 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition Phase 1 State Route 193 2					
Item #	Description	Unit	Quantity	Unit Price	Amount
AMENIT	IES - Includes Non-Potable Water, Fronta	age Landsc	aping & Re	gional Park Ad	quisition
1	6" Non-Potable Water Line	LF	1340	\$27.00	\$36,200
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0
4	12" Non-Potable Water Line	LF	0	\$45.00	\$0
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0
6	Frontage Landscaping	SF	0	\$4.50	\$0
7	Water Valves (Assume every 500')	EA	3	\$2,500.00	\$7,500
8	Booster Pump	EA	0	\$75,000.00	\$0
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0
11	Intake	EA	0	\$45,000.00	\$0
12	De-chlorination Station	EA	0	\$75,000.00	\$0
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0
15	Lake Grading	CY	0	\$3.75	\$0
16	Lake Stabilization	SF	0	\$1.33	\$0
	Construction Total:				\$43,700

Contingency Based upon Hard Costs (15%): \$6,600

Soft Costs Contingency (17%): \$7,400

Regional Park Acquisition \$0

TOTAL AMENITIES \$57,700



Engineer's Opinion of Costs /illage 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition Phase 1 State Route 193 3						
Item #	Description	Unit	Quantity	Unit Price	Amount	
	FIES - Includes Non-Potable Water, Fronta	age Landso	aping & Re	gional Park Ad	cquisition	
				-		
1	6" Non-Potable Water Line	LF	2660	\$27.00	\$71,700	
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0	
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0	
4	12" Non-Potable Water Line	LF	0	\$45.00	\$0	
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0	
6	Frontage Landscaping	SF	0	\$4.50	\$0	
7	Water Valves (Assume every 500')	EA	5	\$2,500.00	\$12,500	
8	Booster Pump	EA	0	\$75,000.00	\$0	
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0	
10	Flushing Hydrant (End of Line)	EA	1	\$6,000.00	\$6,000	
11	Intake	EA	0	\$45,000.00	\$0	
12	De-chlorination Station	EA	0	\$75,000.00	\$0	
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0	
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0	
15	Lake Grading	CY	0	\$3.75	\$0	
16	Lake Stabilization	SF	0	\$1.33	\$0	
	Construction Total:				\$90,200	

Contingency Based upon Hard Costs (15%): \$13,500

Soft Costs Contingency (17%): \$15,300

**Regional Park Acquisition** \$0

TOTAL AMENITIES \$119,000



Engineer's Opinion of Costs Village 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition					
Phase 1 ( Item #	Oak Tree Lane 6 Description	Unit	Quantity	Unit Price	Amount
	200011011		- cuantry		711104111
	IES - Includes Non-Potable Water, Front	age Landsc	aping & Re	gional Park Ac	auisition
				gional i anti i	quiencen
1	6" Non-Potable Water Line	LF	0	\$27.00	\$0
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0
3	10" Non-Potable Water Line	LF	2440	\$44.00	\$107,400
4	12" Non-Potable Water Line	LF	0	\$45.00	\$0
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0
6	Frontage Landscaping	SF	14000	\$4.50	\$63,000
7	Water Valves (Assume every 500')	EA	5	\$2,500.00	\$12,500
8	Booster Pump	EA	1	\$75,000.00	\$75,000
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0
11	Intake	EA	0	\$45,000.00	\$0
12	De-chlorination Station	EA	0	\$75,000.00	\$0
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0
15	Lake Grading	CY	0	\$3.75	\$0
16	Lake Stabilization	SF	0	\$1.33	\$0
	Construction Total:			·	\$257,900

Contingency Based upon Hard Costs (15%): \$38,600

Soft Costs Contingency (17%): \$44,000

Regional Park Acquisition \$0

TOTAL AMENITIES \$340,500



Village 1	Engineer's Opinion of Costs /illage 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition Phase 1 Oak Tree Lane 7								
Item #	Description	Unit	Quantity	Unit Price	Amount				
	<b>FIES - Includes Non-Potable Water, Front</b>	age Landsc	aping & Re	gional Park Ad	cquisition				
	· · · · · ·	-	•		•				
1	6" Non-Potable Water Line	LF	0	\$27.00	\$0				
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0				
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0				
4	12" Non-Potable Water Line	LF	1270	\$45.00	\$57,200				
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	1	\$25,000.00	\$25,000				
6	Frontage Landscaping	SF	0	\$4.50	\$C				
7	Water Valves (Assume every 500')	EA	3	\$2,500.00	\$7,500				
8	Booster Pump	EA	0	\$75,000.00	\$0				
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0				
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0				
11	Intake	EA	0	\$45,000.00	\$0				
12	De-chlorination Station	EA	0	\$75,000.00	\$0				
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0				
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0				
15	Lake Grading	CY	0	\$3.75	\$0				
16	Lake Stabilization	SF	0	\$1.33	\$0				
•	Construction Total:		<u> </u>		\$89,700				

Contingency Based upon Hard Costs (15%): \$13,500

Soft Costs Contingency (17%): \$15,200

Regional Park Acquisition \$0

TOTAL AMENITIES \$118,400



Item #	Description	Unit	Quantity	Unit Price	Amount
AMENITI	ES - Includes Non-Potable Water, Fronta	age Landso	aping & Re	gional Park Ac	quisition
1	6" Non-Potable Water Line	LF	870	\$27.00	\$23,500
2	8" Non-Potable Water Line	LF	2270	\$30.00	\$68,100
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0
4	12" Non-Potable Water Line	LF	0	\$45.00	\$(
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0
6	Frontage Landscaping	SF	35100	\$4.50	\$158,000
7	Water Valves (Assume every 500')	EA	4	\$2,500.00	\$10,000
8	Booster Pump	EA	0	\$75,000.00	\$(
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$(
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$(
11	Intake	EA	0	\$45,000.00	\$(
12	De-chlorination Station	EA	0	\$75,000.00	\$(
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$(
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$(
15	Lake Grading	CY	0	\$3.75	\$(
16	Lake Stabilization	SF	0	\$1.33	\$(
	Construction Total:				\$259,600

Contingency Based upon Hard Costs (15%): \$38,900

Soft Costs Contingency (17%): \$44,100

**Regional Park Acquisition** \$0

TOTAL AMENITIES \$342,600



Item #	Description	Unit	Quantity	Unit Price	Amount
		•			, and and
AMENITI	ES - Includes Non-Potable Water, Fronta	age Landso	aping & Re	gional Park Ac	auisition
	,,.,	-go	-p	9.0	4
1	6" Non-Potable Water Line	LF	0	\$27.00	\$(
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0
3	10" Non-Potable Water Line	LF	0	\$44.00	\$(
4	12" Non-Potable Water Line	LF	0	\$45.00	\$(
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0
6	Frontage Landscaping	SF	35100	\$4.50	\$158,000
7	Water Valves (Assume every 500')	EA	0	\$2,500.00	\$(
8	Booster Pump	EA	0	\$75,000.00	\$(
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$(
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$(
11	Intake	EA	0	\$45,000.00	\$(
12	De-chlorination Station	EA	0	\$75,000.00	\$(
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$(
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$(
15	Lake Grading	CY	0	\$3.75	\$(
16	Lake Stabilization	SF	0	\$1.33	\$

Contingency Based upon Hard Costs (15%): \$23,700

Soft Costs Contingency (17%): \$26,900

**Regional Park Acquisition** \$0

TOTAL AMENITIES \$208,600



Engineer's Opinion of Costs /illage 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition Phase 2 Regional Park 1								
Item #	Description	Unit	Quantity	Unit Price	Amount			
	· · · · · · · · · · · · · · · · · · ·							
AMENIT	TES - Includes Non-Potable Water, Fronta	age Landsc	aping & Re	gional Park Ac	quisition			
1	6" Non-Potable Water Line	LF	870	\$27.00	\$23,500			
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0			
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0			
4	12" Non-Potable Water Line	LF	0	\$45.00	\$C			
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0			
6	Frontage Landscaping	SF	0	\$4.50	\$0			
7	Water Valves (Assume every 500')	EA	0	\$2,500.00	\$C			
8	Booster Pump	EA	0	\$75,000.00	\$0			
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0			
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0			
11	Intake	EA	0	\$45,000.00	\$0			
12	De-chlorination Station	EA	0	\$75,000.00	\$0			
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0			
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0			
15	Lake Grading	CY	0	\$3.75	\$0			
16	Lake Stabilization	SF	0	\$1.33	\$0			
	Construction Total:		·	·	\$23,500			

Contingency Based upon Hard Costs (15%): \$3,500

Soft Costs Contingency (17%): \$4,000

**Regional Park Acquisition** \$0

TOTAL AMENITIES \$31,000



Engineer's Opinion of Costs /illage 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition Phase 2 Oak Tree Lane 4								
Item #	Description	Unit	Quantity	Unit Price	Amount			
•		-						
AMENIT	IES - Includes Non-Potable Water, Fronta	age Landsc	aping & Re	gional Park Ac	quisition			
	· · · · ·		•		•			
1	6" Non-Potable Water Line	LF	0	\$27.00	\$0			
2	8" Non-Potable Water Line	LF	1720	\$30.00	\$51,600			
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0			
4	12" Non-Potable Water Line	LF	0	\$45.00	\$(			
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0			
6	Frontage Landscaping	SF	0	\$4.50	\$0			
7	Water Valves (Assume every 500')	EA	3	\$2,500.00	\$7,500			
8	Booster Pump	EA	0	\$75,000.00	\$(			
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0			
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$(			
11	Intake	EA	0	\$45,000.00	\$(			
12	De-chlorination Station	EA	0	\$75,000.00	\$(			
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$(			
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$(			
15	Lake Grading	CY	0	\$3.75	\$(			
16	Lake Stabilization	SF	0	\$1.33	\$(			
•	Construction Total:		·	·	\$59,100			

Contingency Based upon Hard Costs (15%): \$8,800

Soft Costs Contingency (17%): \$10,000

Regional Park Acquisition \$0

TOTAL AMENITIES \$77,900



Engineer's Opinion of Costs /illage 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition Phase 2 Oak Tree Lane 5								
Item #	Description	Unit	Quantity	Unit Price	Amount			
<b>_</b>			<u>* * * * * * * * * * * * * * * * * * * </u>					
AMENITI	ES - Includes Non-Potable Water, Fronta	age Landsc	aping & Re	gional Park Ac	quisition			
			• •	-				
1	6" Non-Potable Water Line	LF	0	\$27.00	\$(			
2	8" Non-Potable Water Line	LF	550	\$30.00	\$16,500			
3	10" Non-Potable Water Line	LF	0	\$44.00	\$(			
4	12" Non-Potable Water Line	LF	0	\$45.00	\$(			
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$(			
6	Frontage Landscaping	SF	0	\$4.50	\$(			
7	Water Valves (Assume every 500')	EA	1	\$2,500.00	\$2,500			
8	Booster Pump	EA	0	\$75,000.00	\$(			
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$(			
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$1			
11	Intake	EA	0	\$45,000.00	\$			
12	De-chlorination Station	EA	0	\$75,000.00	\$			
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$1			
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$			
15	Lake Grading	CY	0	\$3.75	\$			
16	Lake Stabilization	SF	0	\$1.33	\$			
	Construction Total:		<u> </u>		\$19,00			

Contingency Based upon Hard Costs (15%): \$2,900

Soft Costs Contingency (17%): \$3,200

**Regional Park Acquisition** \$0

TOTAL AMENITIES \$25,100



Village 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition Phase 3 Summary									
Item #	Description	Unit	Quantity	Unit Price	Amount				
AMENIT	<b>FIES - Includes Non-Potable Water, Fronta</b>	age Landso	aping & Re	gional Park Ac	quisition				
					-				
1	6" Non-Potable Water Line	LF	700	\$27.00	\$18,900				
2	8" Non-Potable Water Line	LF	3675	\$30.00	\$110,300				
3	10" Non-Potable Water Line	LF	0	\$44.00	\$(				
4	12" Non-Potable Water Line	LF	1850	\$45.00	\$83,300				
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$(				
6	Frontage Landscaping	SF	43300	\$4.50	\$194,900				
7	Water Valves (Assume every 500')	EA	12	\$2,500.00	\$30,000				
8	Booster Pump	EA	1	\$75,000.00	\$75,000				
9	Pumping Station / Filtration / Standpipe	EA	1	\$350,000.00	\$350,000				
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$				
11	Intake	EA	1	\$45,000.00	\$45,000				
12	De-chlorination Station	EA	1	\$75,000.00	\$75,000				
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	1	\$50,000.00	\$50,000				
14	NID Water Diversion Gate	EA	1	\$15,000.00	\$15,000				
15	Lake Grading	CY	109715	\$3.75	\$411,40				
16	Lake Stabilization	SF	301710	\$1.33	\$401,30				
	Construction Total:				\$1,860,100				

Contingency Based upon Hard Costs (15%): \$279,000

**Soft Costs Contingency (17%):** \$316,200

**Regional Park Acquisition** \$625,000

TOTAL AMENITIES \$3,080,300



Village 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition Phase 3 Ferrari Ranch Road 4								
Item #	Description	Unit	Quantity	Unit Price	Amount			
AMENITI	ES - Includes Non-Potable Water, Fronta	age Landsc	aping & Re	gional Park Ac	quisition			
					-			
1	6" Non-Potable Water Line	LF	0	\$27.00	\$0			
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0			
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0			
4	12" Non-Potable Water Line	LF	0	\$45.00	\$0			
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0			
6	Frontage Landscaping	SF	17250	\$4.50	\$77,600			
7	Water Valves (Assume every 500')	EA	0	\$2,500.00	\$0			
8	Booster Pump	EA	0	\$75,000.00	\$0			
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0			
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0			
11	Intake	EA	0	\$45,000.00	\$0			
12	De-chlorination Station	EA	0	\$75,000.00	\$0			
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0			
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0			
15	Lake Grading	CY	0	\$3.75	\$0			
16	Lake Stabilization	SF	0	\$1.33	\$(			
	Construction Total:				\$77,600			

Contingency Based upon Hard Costs (15%): \$11,600

Soft Costs Contingency (17%): \$13,200

Regional Park Acquisition \$0

TOTAL AMENITIES \$102,400



Engineer's Opinion of Costs /illage 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition Phase 3 Ferrari Ranch Road 5								
Item #	Description	Unit	Quantity	Unit Price	Amount			
			• • •					
AMENIT	IES - Includes Non-Potable Water, Fronta	age Landsc	aping & Re	gional Park Ac	quisition			
					-			
1	6" Non-Potable Water Line	LF	700	\$27.00	\$18,900			
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0			
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0			
4	12" Non-Potable Water Line	LF	0	\$45.00	\$C			
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0			
6	Frontage Landscaping	SF	9900	\$4.50	\$44,600			
7	Water Valves (Assume every 500')	EA	1	\$2,500.00	\$2,500			
8	Booster Pump	EA	0	\$75,000.00	\$0			
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0			
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0			
11	Intake	EA	0	\$45,000.00	\$0			
12	De-chlorination Station	EA	0	\$75,000.00	\$0			
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0			
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0			
15	Lake Grading	CY	0	\$3.75	\$0			
16	Lake Stabilization	SF	0	\$1.33	\$0			
	Construction Total:		<u> </u>	·	\$66,000			

Contingency Based upon Hard Costs (15%): \$9,900

Soft Costs Contingency (17%): \$11,200

**Regional Park Acquisition** \$0

TOTAL AMENITIES \$87,100



Engineer's Opinion of Costs /illage 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition Phase 3 Oak Tree Lane 3								
Item #	Description	Unit	Quantity	Unit Price	Amount			
AMENITI	ES - Includes Non-Potable Water, Fronta	age Landsc	aping & Re	gional Park Ac	quisition			
					-			
1	6" Non-Potable Water Line	LF	0	\$27.00	\$0			
2	8" Non-Potable Water Line	LF	1470	\$30.00	\$44,100			
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0			
4	12" Non-Potable Water Line	LF	0	\$45.00	\$0			
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0			
6	Frontage Landscaping	SF	0	\$4.50	\$0			
7	Water Valves (Assume every 500')	EA	3	\$2,500.00	\$7,500			
8	Booster Pump	EA	1	\$75,000.00	\$75,000			
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0			
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0			
11	Intake	EA	0	\$45,000.00	\$0			
12	De-chlorination Station	EA	0	\$75,000.00	\$0			
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0			
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0			
15	Lake Grading	CY	0	\$3.75	\$0			
16	Lake Stabilization	SF	0	\$1.33	\$(			
	Construction Total:				\$126,600			

Contingency Based upon Hard Costs (15%): \$19,000

Soft Costs Contingency (17%): \$21,500

Regional Park Acquisition \$0

TOTAL AMENITIES \$167,100



Village 1	Engineer's Opinion of Costs /illage 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition Phase 3 Oak Tree Lane 8								
Item #	Description	Unit	Quantity	Unit Price	Amount				
AMENIT	TIES - Includes Non-Potable Water, Fronta	age Landsc	aping & Re	gional Park Ac	quisition				
				-	-				
1	6" Non-Potable Water Line	LF	0	\$27.00	\$0				
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0				
3	10" Non-Potable Water Line	LF	0	\$44.00	\$C				
4	12" Non-Potable Water Line	LF	1850	\$45.00	\$83,300				
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0				
6	Frontage Landscaping	SF	10400	\$4.50	\$46,800				
7	Water Valves (Assume every 500')	EA	4	\$2,500.00	\$10,000				
8	Booster Pump	EA	0	\$75,000.00	\$0				
9	Pumping Station* / Filtration / Standpipe	EA	1	\$350,000.00	\$350,000				
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0				
11	Intake	EA	1	\$45,000.00	\$45,000				
12	De-chlorination Station	EA	1	\$75,000.00	\$75,000				
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	1	\$50,000.00	\$50,000				
14	NID Water Diversion Gate	EA	1	\$15,000.00	\$15,000				
15	Lake Grading	CY	109715	\$3.75	\$411,400				
16	Lake Stabilization	SF	301710	\$1.33	\$401,300				
	Construction Total:			·	\$1,487,800				

Contingency Based upon Hard Costs (15%): \$223,200

Soft Costs Contingency (17%): \$252,900

**Regional Park Acquisition** \$0

#### TOTAL AMENITIES \$1,963,900

\* Assumes NID jurisdiction has expanded, therefore no additional Pumping Station is required near Regional Park.



Engineer's Opinion of Costs /illage 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition Phase 3 Oak Tree Lane 9								
Item #	Description	Unit	Quantity	Unit Price	Amount			
			<u> </u>					
	FIES - Includes Non-Potable Water, Fronta	age Landsc	aping & Re	gional Park Ac	quisition			
					-			
1	6" Non-Potable Water Line	LF	0	\$27.00	\$0			
2	8" Non-Potable Water Line	LF	1240	\$30.00	\$37,200			
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0			
4	12" Non-Potable Water Line	LF	0	\$45.00	\$C			
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0			
6	Frontage Landscaping	SF	13200	\$4.50	\$59,400			
7	Water Valves (Assume every 500')	EA	2	\$2,500.00	\$5,000			
8	Booster Pump	EA	0	\$75,000.00	\$0			
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0			
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0			
11	Intake	EA	0	\$45,000.00	\$0			
12	De-chlorination Station	EA	0	\$75,000.00	\$0			
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0			
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0			
15	Lake Grading	CY	0	\$3.75	\$0			
16	Lake Stabilization	SF	0	\$1.33	\$0			
	Construction Total:		<u> </u>	·	\$101,600			

Contingency Based upon Hard Costs (15%): \$15,200

Soft Costs Contingency (17%): \$17,300

Regional Park Acquisition \$0

TOTAL AMENITIES \$134,100



Engineer's Opinion of Costs /illage 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition Phase 3 Oak Tree Lane 10								
Item #	Description	Unit	Quantity	Unit Price	Amount			
	ΓIES - Includes Non-Potable Water, Fronta	age Landsc	aping & Re	gional Park Ac	quisition			
	·	-	• •	-	•			
1	6" Non-Potable Water Line	LF	0	\$27.00	\$0			
2	8" Non-Potable Water Line	LF	965	\$30.00	\$29,000			
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0			
4	12" Non-Potable Water Line	LF	0	\$45.00	\$0			
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0			
6	Frontage Landscaping	SF	9800	\$4.50	\$44,100			
7	Water Valves (Assume every 500')	EA	2	\$2,500.00	\$5,000			
8	Booster Pump	EA	0	\$75,000.00	\$0			
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0			
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0			
11	Intake	EA	0	\$45,000.00	\$0			
12	De-chlorination Station	EA	0	\$75,000.00	\$0			
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0			
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0			
15	Lake Grading	CY	0	\$3.75	\$0			
16	Lake Stabilization	SF	0	\$1.33	\$0			
	Construction Total:		·	·	\$78,100			

Contingency Based upon Hard Costs (15%): \$11,700

Soft Costs Contingency (17%): \$13,300

**Regional Park Acquisition** \$0

TOTAL AMENITIES \$103,100



Item #	Description	Unit	Quantity	Unit Price	Amount
AMENITI	ES - Includes Non-Potable Water, Fronta	ige Lands	caping & Re	gional Park Ac	quisition
1	6" Non-Potable Water Line	LF	5125	\$27.00	\$138,400
2	8" Non-Potable Water Line	LF	0	\$30.00	\$(
3	10" Non-Potable Water Line	LF	0	\$44.00	\$(
4	12" Non-Potable Water Line	LF	0	\$45.00	\$(
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$(
6	Frontage Landscaping	SF	0	\$4.50	\$(
7	Water Valves (Assume every 500')	EA	10	\$2,500.00	\$25,000
8	Booster Pump	EA	0	\$75,000.00	\$(
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$(
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$(
11	Intake	EA	0	\$45,000.00	\$(
12	De-chlorination Station	EA	0	\$75,000.00	\$(
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$(
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$(
15	Lake Grading	CY	0	\$3.75	\$(
16	Lake Stabilization	SF	0	\$1.33	\$

Contingency Based upon Hard Costs (15%): \$24,500

Soft Costs Contingency (17%): \$27,800

**Regional Park Acquisition** \$175,000

TOTAL AMENITIES \$390,700



Engineer's Opinion of Costs /illage 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition Phase 4 Oak Tree Lane 2								
Item #	Description	Unit	Quantity	Unit Price	Amount			
AMENIT	IES - Includes Non-Potable Water, Fronta	age Landsc	aping & Re	gional Park Ac	quisition			
1	6" Non-Potable Water Line	LF	1620	\$27.00	\$43,700			
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0			
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0			
4	12" Non-Potable Water Line	LF	0	\$45.00	\$0			
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0			
6	Frontage Landscaping	SF	0	\$4.50	\$0			
7	Water Valves (Assume every 500')	EA	3	\$2,500.00	\$7,500			
8	Booster Pump	EA	0	\$75,000.00	\$0			
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0			
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0			
11	Intake	EA	0	\$45,000.00	\$0			
12	De-chlorination Station	EA	0	\$75,000.00	\$0			
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0			
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$(			
15	Lake Grading	CY	0	\$3.75	\$(			
16	Lake Stabilization	SF	0	\$1.33	\$(			
	Construction Total:				\$51,200			

Contingency Based upon Hard Costs (15%): \$7,700

Soft Costs Contingency (17%): \$8,700

Regional Park Acquisition \$0

TOTAL AMENITIES \$67,600



Engineer's Opinion of Costs /illage 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition Phase 4 North South Collector 1								
Item #	Description	Unit	Quantity	Unit Price	Amount			
	· · · · ·		<u> </u>					
AMENITI	ES - Includes Non-Potable Water, Fronta	ige Landso	aping & Re	gional Park Ac	quisition			
					•			
1	6" Non-Potable Water Line	LF	985	\$27.00	\$26,600			
2	8" Non-Potable Water Line	LF	0	\$30.00	\$(			
3	10" Non-Potable Water Line	LF	0	\$44.00	\$(			
4	12" Non-Potable Water Line	LF	0	\$45.00	\$			
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$(			
6	Frontage Landscaping	SF	0	\$4.50	\$(			
7	Water Valves (Assume every 500')	EA	2	\$2,500.00	\$5,00			
8	Booster Pump	EA	0	\$75,000.00	\$			
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$			
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$			
11	Intake	EA	0	\$45,000.00	\$			
12	De-chlorination Station	EA	0	\$75,000.00	\$1			
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$			
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$			
15	Lake Grading	CY	0	\$3.75	\$			
16	Lake Stabilization	SF	0	\$1.33	\$1			
•	Construction Total:				\$31,600			

Contingency Based upon Hard Costs (15%): \$4,700

Soft Costs Contingency (17%): \$5,400

**Regional Park Acquisition** \$0

TOTAL AMENITIES \$41,700



Engineer's Opinion of Costs /illage 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition							
Phase 4 Item #	Collector Loop 1 Description	Unit	Quantity	Unit Price	Amount		
AMENIT	IES - Includes Non-Potable Water, Fronta	age Landsc	aping & Re	gional Park Ac	quisition		
	· · · · · ·	•		•			
1	6" Non-Potable Water Line	LF	2520	\$27.00	\$68,100		
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0		
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0		
4	12" Non-Potable Water Line	LF	0	\$45.00	\$0		
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0		
6	Frontage Landscaping	SF	0	\$4.50	\$C		
7	Water Valves (Assume every 500')	EA	5	\$2,500.00	\$12,500		
8	Booster Pump	EA	0	\$75,000.00	\$0		
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0		
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0		
11	Intake	EA	0	\$45,000.00	\$0		
12	De-chlorination Station	EA	0	\$75,000.00	\$0		
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0		
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0		
15	Lake Grading	CY	0	\$3.75	\$0		
16	Lake Stabilization	SF	0	\$1.33	\$0		
	Construction Total:			·	\$80,600		

Contingency Based upon Hard Costs (15%): \$12,100

Soft Costs Contingency (17%): \$13,700

Regional Park Acquisition \$0

TOTAL AMENITIES \$106,400



Engineer's Opinion of Costs Village 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition Phase 5 Summary									
Item #	Description	Unit	Quantity	Unit Price	Amount				
A			1 11						
AMENITIES - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition									
		<u> </u>			•				
1	6" Non-Potable Water Line	LF	2920	\$27.00	\$78,800				
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0				
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0				
4	12" Non-Potable Water Line	LF	0	\$45.00	\$C				
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0				
6	Frontage Landscaping	SF	72600	\$4.50	\$326,700				
7	Water Valves (Assume every 500')	EA	6	\$2,500.00	\$15,000				
8	Booster Pump	EA	0	\$75,000.00	\$0				
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$C				
10	Flushing Hydrant (End of Line)	EA	1	\$6,000.00	\$6,000				
11	Intake	EA	0	\$45,000.00	\$0				
12	De-chlorination Station	EA	0	\$75,000.00	\$0				
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0				
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0				
15	Lake Grading	CY	0	\$3.75	\$0				
16	Lake Stabilization	SF	0	\$1.33	\$0				
	Construction Total:			·	\$426,500				

#### Contingency Based upon Hard Costs (15%): \$64,000

Soft Costs Contingency (17%): \$72,500

**Regional Park Acquisition** \$0

TOTAL AMENITIES \$563,000



Village 1	Engineer's Opinion of Costs /illage 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition Phase 5 Oak Tree Lane 1								
Item #	Description	Unit	Quantity	Unit Price	Amount				
			<u> </u>						
AMENITIES - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition									
				-	-				
1	6" Non-Potable Water Line	LF	670	\$27.00	\$18,100				
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0				
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0				
4	12" Non-Potable Water Line	LF	0	\$45.00	\$0				
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0				
6	Frontage Landscaping	SF	60900	\$4.50	\$274,000				
7	Water Valves (Assume every 500')	EA	1	\$2,500.00	\$2,500				
8	Booster Pump	EA	0	\$75,000.00	\$C				
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$C				
10	Flushing Hydrant (End of Line)	EA	1	\$6,000.00	\$6,000				
11	Intake	EA	0	\$45,000.00	\$0				
12	De-chlorination Station	EA	0	\$75,000.00	\$0				
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0				
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0				
15	Lake Grading	CY	0	\$3.75	\$0				
16	Lake Stabilization	SF	0	\$1.33	\$0				
	Construction Total:		·	·	\$300,600				

Contingency Based upon Hard Costs (15%): \$45,000

Soft Costs Contingency (17%): \$51,000

**Regional Park Acquisition** \$0

TOTAL AMENITIES \$396,600



Engineer's Opinion of Costs /illage 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition Phase 5 Sierra College Blvd. 1							
Item #	Description	Unit	Quantity	Unit Price	Amount		
	· · · · · · · · · · · · · · · · · · ·						
ΑΜΕΝΙΊ	TIES - Includes Non-Potable Water, Fronta	age Landsc	aping & Re	gional Park Ad	quisition		
1	6" Non-Potable Water Line	LF	0	\$27.00	\$0		
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0		
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0		
4	12" Non-Potable Water Line	LF	0	\$45.00	\$C		
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0		
6	Frontage Landscaping	SF	5700	\$4.50	\$25,700		
7	Water Valves (Assume every 500')	EA	0	\$2,500.00	\$0		
8	Booster Pump	EA	0	\$75,000.00	\$0		
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0		
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0		
11	Intake	EA	0	\$45,000.00	\$0		
12	De-chlorination Station	EA	0	\$75,000.00	\$0		
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0		
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0		
15	Lake Grading	CY	0	\$3.75	\$0		
16	Lake Stabilization	SF	0	\$1.33	\$0		
	Construction Total:		<u> </u>	·	\$25,700		

Contingency Based upon Hard Costs (15%): \$3,900

Soft Costs Contingency (17%): \$4,400

**Regional Park Acquisition** \$0

TOTAL AMENITIES \$34,000



Phase 5 Sierra College Blvd. 2								
Item #	Description	Unit	Quantity	Unit Price	Amount			
AMENITI	ES - Includes Non-Potable Water, Fronta	age Landsc	aping & Re	gional Park Ac	quisition			
1	6" Non-Potable Water Line	LF	0	\$27.00	\$0			
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0			
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0			
4	12" Non-Potable Water Line	LF	0	\$45.00	\$0			
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0			
6	Frontage Landscaping	SF	6000	\$4.50	\$27,000			
7	Water Valves (Assume every 500')	EA	0	\$2,500.00	\$0			
8	Booster Pump	EA	0	\$75,000.00	\$0			
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0			
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0			
11	Intake	EA	0	\$45,000.00	\$0			
12	De-chlorination Station	EA	0	\$75,000.00	\$0			
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0			
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0			
15	Lake Grading	CY	0	\$3.75	\$(			
16	Lake Stabilization	SF	0	\$1.33	\$(			
· · ·	Construction Total:		· ·	•	\$27,000			

Contingency Based upon Hard Costs (15%): \$4,100

Soft Costs Contingency (17%): \$4,600

**Regional Park Acquisition** \$0

TOTAL AMENITIES \$35,700



Item #	Description	Unit	Quantity	Unit Price	Amount
	· · · · · · · · · · · · · · · · · · ·				
AMENITI	ES - Includes Non-Potable Water, Fronta	age Landso	aping & Re	gional Park Ac	quisition
					-
1	6" Non-Potable Water Line	LF	1350	\$27.00	\$36,500
2	8" Non-Potable Water Line	LF	0	\$30.00	\$(
3	10" Non-Potable Water Line	LF	0	\$44.00	\$(
4	12" Non-Potable Water Line	LF	0	\$45.00	\$(
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$(
6	Frontage Landscaping	SF	0	\$4.50	\$(
7	Water Valves (Assume every 500')	EA	3	\$2,500.00	\$7,500
8	Booster Pump	EA	0	\$75,000.00	\$(
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$1
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$1
11	Intake	EA	0	\$45,000.00	\$1
12	De-chlorination Station	EA	0	\$75,000.00	\$
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$
15	Lake Grading	CY	0	\$3.75	\$
16	Lake Stabilization	SF	0	\$1.33	\$
	Construction Total:				\$44,00

Contingency Based upon Hard Costs (15%): \$6,600

Soft Costs Contingency (17%): \$7,500

Regional Park Acquisition \$0

TOTAL AMENITIES \$58,100



Engineer's Opinion of Costs /illage 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition Phase 5 Collector Loop 2								
Item #	Description	Unit	Quantity	Unit Price	Amount			
AMENIT	IES - Includes Non-Potable Water, Fronta	age Landsc	aping & Re	gional Park Ac	quisition			
					-			
1	6" Non-Potable Water Line	LF	900	\$27.00	\$24,200			
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0			
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0			
4	12" Non-Potable Water Line	LF	0	\$45.00	\$0			
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0			
6	Frontage Landscaping	SF	0	\$4.50	\$C			
7	Water Valves (Assume every 500')	EA	2	\$2,500.00	\$5,000			
8	Booster Pump	EA	0	\$75,000.00	\$0			
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0			
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0			
11	Intake	EA	0	\$45,000.00	\$0			
12	De-chlorination Station	EA	0	\$75,000.00	\$0			
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0			
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0			
15	Lake Grading	CY	0	\$3.75	\$(			
16	Lake Stabilization	SF	0	\$1.33	\$0			
	Construction Total:		<u> </u>	·	\$29,200			

Contingency Based upon Hard Costs (15%): \$4,400

Soft Costs Contingency (17%): \$5,000

Regional Park Acquisition \$0

TOTAL AMENITIES \$38,600



Item #	Description	Unit	Quantity	Unit Price	Amount
AMENITI	ES - Includes Non-Potable Water, Fronta	age Landsc	aping & Re	gional Park Ac	quisition
1	6" Non-Potable Water Line	LF	3870	\$27.00	\$104,500
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0
3	10" Non-Potable Water Line	LF	0	\$44.00	\$C
4	12" Non-Potable Water Line	LF	0	\$45.00	\$0
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$C
6	Frontage Landscaping	SF	0	\$4.50	\$0
7	Water Valves (Assume every 500')	EA	8	\$2,500.00	\$20,000
8	Booster Pump	EA	0	\$75,000.00	\$C
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$C
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0
11	Intake	EA	0	\$45,000.00	\$C
12	De-chlorination Station	EA	0	\$75,000.00	\$0
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0
15	Lake Grading	CY	0	\$3.75	\$0
16	Lake Stabilization	SF	0	\$1.33	\$0
	Construction Total:				\$124,500

Contingency Based upon Hard Costs (15%): \$18,700

Soft Costs Contingency (17%): \$21,200

Regional Park Acquisition \$0

TOTAL AMENITIES \$164,400



Engineer's Opinion of Costs Village 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition Phase 6 Collector Loop 3							
Item #	Description	Unit	Quantity	Unit Price	Amount		
AMENITIES - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition							
	·		• •		•		
1	6" Non-Potable Water Line	LF	3870	\$27.00	\$104,500		
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0		
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0		
4	12" Non-Potable Water Line	LF	0	\$45.00	\$0		
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0		
6	Frontage Landscaping	SF	0	\$4.50	\$0		
7	Water Valves (Assume every 500')	EA	8	\$2,500.00	\$20,000		
8	Booster Pump	EA	0	\$75,000.00	\$0		
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0		
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0		
11	Intake	EA	0	\$45,000.00	\$0		
12	De-chlorination Station	EA	0	\$75,000.00	\$0		
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0		
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0		
15	Lake Grading	CY	0	\$3.75	\$0		
16	Lake Stabilization	SF	0	\$1.33	\$0		
	Construction Total:				\$124,500		

Contingency Based upon Hard Costs (15%): \$18,700

Soft Costs Contingency (17%): \$21,200

Regional Park Acquisition \$0

TOTAL AMENITIES \$164,400



Item #	Description	Unit	Quantity	Unit Price	Amount		
AMENITIES - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition							
1	6" Non-Potable Water Line	LF	2420	\$27.00	\$65,300		
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0		
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0		
4	12" Non-Potable Water Line	LF	0	\$45.00	\$(		
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	1	\$25,000.00	\$25,000		
6	Frontage Landscaping	SF	7450	\$4.50	\$33,500		
7	Water Valves (Assume every 500')	EA	4	\$2,500.00	\$10,000		
8	Booster Pump	EA	0	\$75,000.00	\$(		
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$(		
10	Flushing Hydrant (End of Line)	EA	1	\$6,000.00	\$6,000		
11	Intake	EA	0	\$45,000.00	\$(		
12	De-chlorination Station	EA	0	\$75,000.00	\$(		
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$(		
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$(		
15	Lake Grading	CY	0	\$3.75	\$(		
16	Lake Stabilization	SF	0	\$1.33	\$1		
	Construction Total:				\$139,800		

Contingency Based upon Hard Costs (15%): \$21,000

Soft Costs Contingency (17%): \$23,800

Regional Park Acquisition \$0

TOTAL AMENITIES \$184,600



Engineer's Opinion of Costs Village 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition Phase 7 Oak Tree Lane 11							
Item #	Description	Unit	Quantity	Unit Price	Amount		
		-	• • • •				
AMENITIES - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition							
				-	-		
1	6" Non-Potable Water Line	LF	1520	\$27.00	\$41,000		
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0		
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0		
4	12" Non-Potable Water Line	LF	0	\$45.00	\$C		
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0		
6	Frontage Landscaping	SF	7450	\$4.50	\$33,500		
7	Water Valves (Assume every 500')	EA	3	\$2,500.00	\$7,500		
8	Booster Pump	EA	0	\$75,000.00	\$C		
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$C		
10	Flushing Hydrant (End of Line)	EA	1	\$6,000.00	\$6,000		
11	Intake	EA	0	\$45,000.00	\$0		
12	De-chlorination Station	EA	0	\$75,000.00	\$0		
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0		
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0		
15	Lake Grading	CY	0	\$3.75	\$0		
16	Lake Stabilization	SF	0	\$1.33	\$0		
	Construction Total:		·	·	\$88,000		

Contingency Based upon Hard Costs (15%): \$13,200

Soft Costs Contingency (17%): \$15,000

**Regional Park Acquisition** \$0

TOTAL AMENITIES \$116,200



Engineer's Opinion of Costs Village 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition Phase 7 Virginiatown Road 1						
Item #	Description	Unit	Quantity	Unit Price	Amount	
		-				
	FIES - Includes Non-Potable Water, Fronta	age Landsc	aping & Re	gional Park Ac	quisition	
	·		• •		•	
1	6" Non-Potable Water Line	LF	200	\$27.00	\$5,400	
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0	
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0	
4	12" Non-Potable Water Line	LF	0	\$45.00	\$0	
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	1	\$25,000.00	\$25,000	
6	Frontage Landscaping	SF	0	\$4.50	\$C	
7	Water Valves (Assume every 500')	EA	0	\$2,500.00	\$0	
8	Booster Pump	EA	0	\$75,000.00	\$0	
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0	
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0	
11	Intake	EA	0	\$45,000.00	\$0	
12	De-chlorination Station	EA	0	\$75,000.00	\$0	
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0	
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0	
15	Lake Grading	CY	0	\$3.75	\$0	
16	Lake Stabilization	SF	0	\$1.33	\$0	
	Construction Total:		<u> </u>	·	\$30,400	

Contingency Based upon Hard Costs (15%): \$4,600

Soft Costs Contingency (17%): \$5,100

Regional Park Acquisition \$0

TOTAL AMENITIES \$40,100



Engineer's Opinion of Costs Village 1 - Amenities - Includes Non-Potable Water, Frontage Landscaping & Regional Park Acquisition Phase 7 Virginiatown Road 2						
Item #	Description	Unit	Quantity	Unit Price	Amount	
	· · · · · · · · · · · · · · · · · · ·					
AMENITI	ES - Includes Non-Potable Water, Fronta	age Landsc	aping & Re	gional Park Ac	quisition	
	·	-		-	•	
1	6" Non-Potable Water Line	LF	600	\$27.00	\$16,200	
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0	
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0	
4	12" Non-Potable Water Line	LF	0	\$45.00	\$0	
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0	
6	Frontage Landscaping	SF	0	\$4.50	\$0	
7	Water Valves (Assume every 500')	EA	1	\$2,500.00	\$2,500	
8	Booster Pump	EA	0	\$75,000.00	\$0	
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$0	
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$0	
11	Intake	EA	0	\$45,000.00	\$0	
12	De-chlorination Station	EA	0	\$75,000.00	\$0	
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$0	
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$0	
15	Lake Grading	CY	0	\$3.75	\$0	
16	Lake Stabilization	SF	0	\$1.33	\$(	
	Construction Total:		•		\$18,700	

Contingency Based upon Hard Costs (15%): \$2,800

Soft Costs Contingency (17%): \$3,200

**Regional Park Acquisition** \$0

TOTAL AMENITIES \$24,700



	r's Opinion of Costs - Amenities - Includes Non-Potable Water, Fr	ontage Lands	scaping & Re	egional Park Acc	quisition		
Phase 7 Virginiatown Road 3							
Item #	Description	Unit	Quantity	Unit Price	Amount		
AMENIT	IES - Includes Non-Potable Water, Front	age Landsc	aping & Re	gional Park Ac	quisition		
				•	•		
1	6" Non-Potable Water Line	LF	100	\$27.00	\$2,700		
2	8" Non-Potable Water Line	LF	0	\$30.00	\$0		
3	10" Non-Potable Water Line	LF	0	\$44.00	\$0		
4	12" Non-Potable Water Line	LF	0	\$45.00	\$(		
5	Temporary Connection to Domestic w/ Backflow Prevention	EA	0	\$25,000.00	\$0		
6	Frontage Landscaping	SF	0	\$4.50	\$(		
7	Water Valves (Assume every 500')	EA	0	\$2,500.00	\$(		
8	Booster Pump	EA	0	\$75,000.00	\$(		
9	Pumping Station / Filtration / Standpipe	EA	0	\$350,000.00	\$(		
10	Flushing Hydrant (End of Line)	EA	0	\$6,000.00	\$(		
11	Intake	EA	0	\$45,000.00	\$(		
12	De-chlorination Station	EA	0	\$75,000.00	\$(		
13	Lake Aeration - Oak Tree Lane (Walkup Ranch)	EA	0	\$50,000.00	\$(		
14	NID Water Diversion Gate	EA	0	\$15,000.00	\$(		
15	Lake Grading	CY	0	\$3.75	\$(		
16	Lake Stabilization	SF	0	\$1.33	\$(		
	Construction Total:				\$2,700		

Contingency Based upon Hard Costs (15%): \$400

Soft Costs Contingency (17%): \$500

Regional Park Acquisition \$0

TOTAL AMENITIES \$3,600

# APPENDIX 10 Lincoln Village 1 Specific Plan Infrastructure Finance Plan PFE Construction Items Table, PFE Maps and City Impact Fees





#### Engineer's Opinion of Costs Village 1 PFE Eligible Construction Items Backbone Roadway

Backbone Roadway						
Item #	Improvement	Description	<b>Total Cost</b>			
Back	oone Roadway System					
V1R1	Ferrari Ranch Road South	Along Ferrari Ranch Road South from the existing bridge east of Lincoln Blvd. to McBean Park Drive, 2 lanes, median landscaping and 2 traffic signals at Ingram Parkway and Sun City Blvd.	\$3,603,100			
V1R2	Ferrari Ranch Road/McBean Park Drive Intersection Traffic Signal	Including full signal appurtenances and associated pavement widening and necessary intersection revisions.	\$642,500			
V1R3	Ferrari Ranch Road North	From the intersection of McBean Park Drive and Ferrari Ranch Road north to the end of the transition from a 4 lane road to 2 lane road, 2 inside lanes and transition.	\$245,800			
V1R4	Oak Tree Lane/Sierra College Boulevard Intersection Traffic Signal	Including full signal appurtenances and associated pavement widening.	\$1,826,100			
V1R5	Oak Tree Lane South	In addition to V1R6, west side of Oak Tree Lane South from the southern boundary of the condo parcel to the southeast corner of the church parcel, 1 lane, curb gutter & sidewalk, 1/2 median landscaping and frontage landscaping	\$526,200			
V1R6	Oak Tree Lane South	Along west side of Oak Tree Lane South in front of existing condo parcel, 1 lane, curb gutter & sidewalk, 1/2 median landscaping and frontage landscaping.	\$237,100			
V1R7	Oak Tree Lane/McBean Park Drive Intersection Traffic Signal	Including full signal appurtenances and associated pavement widening.	\$713,800			
V1R8	Oak Tree Lane North	From the intersection of Oak Tree Lane and McBean Park Drive north to the entrance of La Bella Rosa Subdivision, 2 inside lanes, 12'x5' Arch Pipe Culvert under PFE inside lanes at NID canal crossing.	\$716,700			
V1R9	Oak Tree Lane/School South Entrance Intersection Traffic Signal	Including full signal appurtenances and associated pavement widening.	\$455,500			
V1R10	Oak Tree Lane/School North Entrance Intersection Traffic Signal	Including full signal appurtenances and associated pavement widening.	\$455,300			
V1R11	Oak Tree Lane North	From entrance to La Bella Rosa Subdivision to the intersection of Ferrari Ranch Road and Oak Tree Lane, 2 inside lanes	\$172,300			
V1R12	Oak Tree Lane/Ferrari Ranch Road Intersection Traffic Signal	Including full signal appurtenances and associated pavement widening.	\$387,800			
V1R13	Oak Tree Lane North	2-lane box girder bridge across Auburn Ravine, with span of approximately 400 LF includes abutments and approaches.	\$7,260,100			
V1R14	Oak Tree Lane North	From north end of bridge to the intersection of Virginiatown Road, 2 inside lanes.	\$821,200			



## Date: 8/9/2016

Village	Engineer's Opinion of Costs Village 1 PFE Eligible Construction Items Backbone Roadway				
Item #	Improvement	Description	<b>Total Cost</b>		
Backb	one Roadway System	l			
V1R15	Oak Tree Lane North	From the intersection of Oak Tree Lane and Virginiatown Road, south along the west side of Oak Tree Lane North to the southeast corner of the City property, 1 lane, curb, gutter and sidewalk.	\$250,700		
V1R16	Virginiatown Road	From the intersection of Oak Tree Lane and Virginiatown Road, west along the south side of Virginiatown Road to the northwest corner of the City property, 1 lane.	\$286,300		
V1R17	McBean Park Drive	South side of McBean Park Drive between west side of Ferrari Ranch Road and Oak Tree Lane, 1 lane, NEV lane, 1/2 median landscaping and frontage Landscaping (35' wide overall City may elect to spread or disburse over entire width of landscape corridor).	\$1,068,800		
V1R18	State Route 193	South side of State Route 193 from Oak Tree Lane to east of the Collector/Turkey Creek intersection, 1outside lane, including transition and AB shoulder.	\$584,500		
V1R19	McBean Park Drive	From the intersection of Ferrari Ranch Road and McBean Park Drive to intersection of Oak Tree Lane and McBean Park Drive, 2 lanes.	\$1,171,600		
V1R20	State Route 193	North side of State Route 193 from Oak Tree Lane to east of the Collector/Turkey Creek intersection, 1outside lane, including transition and AB shoulder.	\$484,500		
V1R21	State Route 193/North South Collector Intersection Traffic Signal	Including full signal appurtenances and associated pavement widening.	\$432,100		
Total			\$22,342,000		



### Engineer's Opinion of Costs Village 1 PFE Eligible Construction Items

Backbone Water

Item # Improvement

Description

Total Cost

Water	System		 
	-		
V1W1	30" Water Line	From the water tank south of Village 1 to Oak Tree Lane South, upsize from 16" water line.	\$ 273,100
V1W2	30" Water Line	From W1, east along Oak Tree Lane South to the entrance of the Hidden Hills subdivision, upsize from 16" water line.	\$ 448,500
V1W3	30" Water Line	Along Oak Tree Lane South, from the entrance of the Hidden Hills subdivision to the connection with the proposed 24" water line, upsize from 16" water line.	\$ 147,800
V1W4	18" Water Line	Along Oak Tree Lane South, from the end of the 30" pipe to the intersection of Oak Tree Lane and McBean Park Drive, upsize from 16" water line.	\$ 65,800
V1W5	24" Water Line	Relocate 24" Waterline in the area of the new culvert crossing of Oak Tree Lane approximately 200 LF	\$ 17,200
V1W6	24" Water Line	Along Oak Tree Lane North from Oak Tree Lane and McBean Park Drive intersection to the entrance to La Bella Rosa subdivision, upsize from 16" water line.	\$ 332,300
V1W7	24" Water Line	Along Oak Tree Lane North, from the entrance to La Bella Rosa subdivision to Ferrari Ranch Road and Oak Tree Lane intersection, upsize from 16" water line.	\$ 105,400
V1W8	18" Water Line	Along Oak Tree Lane North, from the intersection of Ferrari Ranch Road and Oak Tree Lane to Virginiatown Road, upsize from 16" water line.	\$ 194,700
V1W9	18" Water Line	Along Virginiatown Road from the end of the existing 18" water line, east to 600 LF past the intersection of Oak Tree Lane and Virginiatown Road, upsize from 16" water line.	\$ 35,700
V1W10	18" Water Line	Along State Route 193, east from Oak Tree Lane to east entrance of Turkey Creek Estates upsize from 16" water line.	\$ 115,200
Total			\$ 1,735,700



#### Engineer's Opinion of Costs Village 1 PFE Eligible Construction Items Backbone Wastewater

Item # Improvement

Description

Total Cost

Waste	Wastewater System					
V1S1	30" Sewer Line	Along Ferrari Ranch Road North from the existing sewer at Ferrari Ranch Road and McBean Park Drive intersection, to the entrance to the bore and jack crossing, upsize from 12" sewer line.	\$	362,000		
V1S2	24" Sewer Line	Along Ferrari Ranch Road North, from the bore and jack crossing to southwest boundary of La Bella Rosa subdivision, upsize from 10" sewer line.	\$	194,800		
V1S3	24" Sewer Line	Along Ferrari Ranch Road North, from the southwest corner of La Bella Rosa subdivision to the intersection of Ferrari Ranch Road and Oak Tree Lane, full improvement cost.	\$	434,800		
Total			\$	991,600		



Engineer's Opinion of Costs Village 1 PFE Eligible Construction Items Backbone Drainage					
Item #	Improvement	Description	Total Cost		
Storm	Drainage Syst	em			
V1D1		Improve the existing dam, located east of Oak Tree Lane South; which benefits Lincoln Hills in addition to Village 1.	\$ 1,320,000		
Total			\$ 1,320,000		

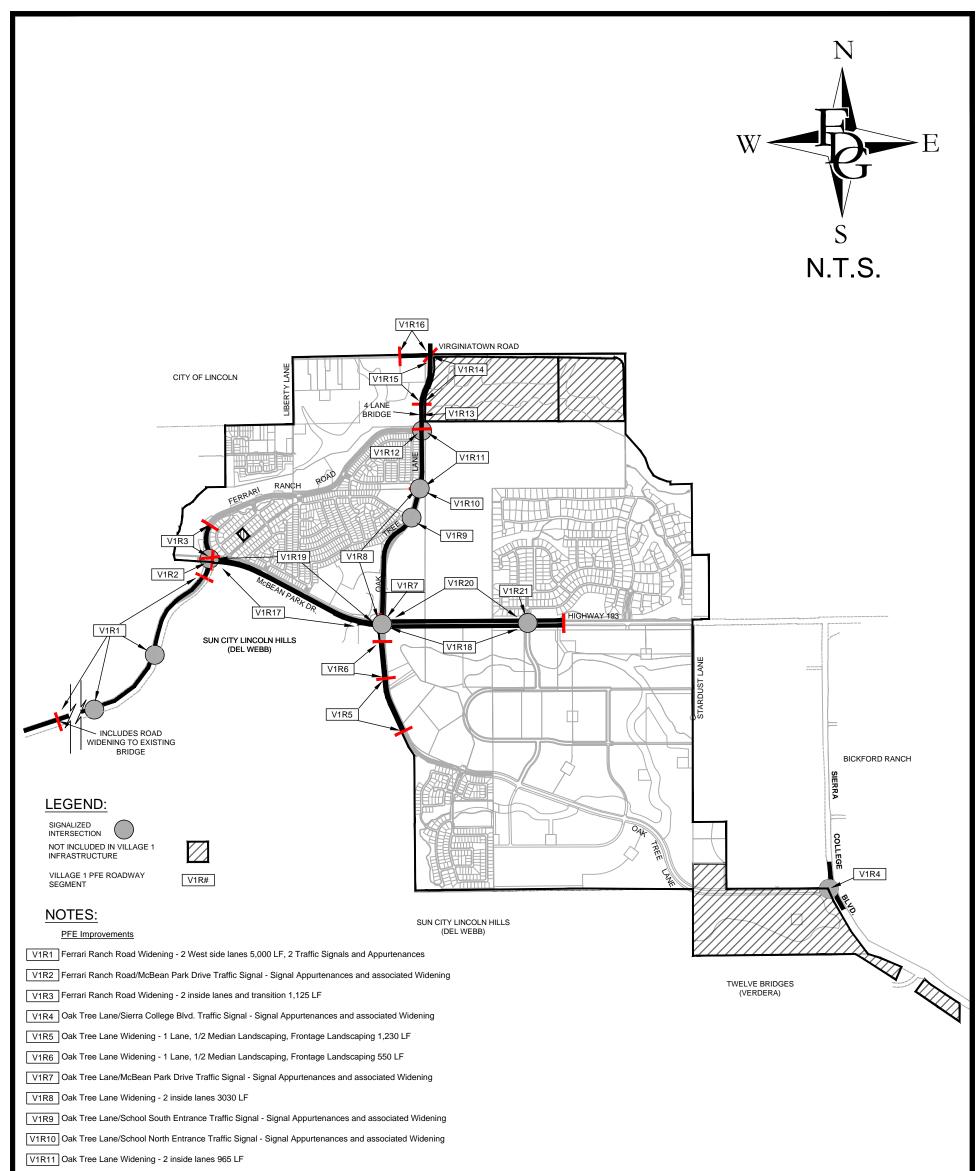


Item #	Improvement	Description	<b>Total Cost</b>
Fronta	ge Landscaping		
	Ferrari Ranch Road South	Along Ferrari Ranch Road South from the existing bridge east of Lincoln Blvd. to McBean Park Drive, 5,000 LF of landscaping.	\$297,10
V1FL 2	McBean Park Drive	South side of McBean Park Drive between west side of Ferrari Ranch Road and Oak Tree Lane, 3,760 LF of landscaping along Sun City Lincoln Hills.	\$763,00
V1FL 3	Oak Tree Lane South	Along west side of Oak Tree Lane South in front of existing condo parcel, frontage landscaping.	\$45,80
V1FL 4	Oak Tree Lane South	In addition to the FL3, west side of Oak Tree Lane South from the southern boundary of the condo parcel to the southeast corner of the church parcel, frontage landscaping.	\$102,30
V1FL 5	Oak Tree Lane North	From the intersection of Oak Tree Lane and Virginiatown Road, south along the west side of Oak Tree Lane North to the southeast corner of the City property.	\$11,50
V1FL 6	Virginiatown Road	From the intersection of Oak Tree Lane and Virginiatown Road, west along the south side of Virginiatown Road to the northwest corner of the City property.	\$17,80
Total			\$1,237,50



## Engineer's Opinion of Costs Village 1 PFE Eligible Construction Items

Trails Item #	Improvement	Description	Тс	tal Cost
		Boothpiton		
Traile	System			
114115	System			
		Alana Farmari Danah Daad North from the Farmari Danah Daad and MaDaan		
V1TR1	10' Wide Trail	Along Ferrari Ranch Road North from the Ferrari Ranch Road and McBean	¢	216,000
VIINI	10 wide Irali	Park Drive intersection to Ferrari Ranch Road and the La Bella Rosa	\$	216,000
		subdivision entrance. Asphalt trail and striping, 3,760 LF.		
		Along Ferrari Ranch Road North from the entrance to La Bella Rosa	<u>م</u>	100 400
V1TR2	10' Wide Trail	subdivision to the intersection of Ferrari Ranch Road and Oak Tree Lane,	\$	126,400
		Asphalt trail and striping. 1,710 LF.		
		Along McBean Park Drive from the Ferrari Ranch Road and McBean Park		10.100
V1TR3	8' Wide Trail	Drive intersection to the southeast corner of the Epick 3 subdivision, Asphalt	\$	13,100
		trail, 350 LF.		
		Along McBean Park Drive from the southeast corner of the Epick 3	<b>.</b>	== ===
V1TR4	8' Wide Trail	subdivision to the southeast corner of the Enclave at Horizon Edge subdivision,	\$	53,200
		Asphalt trail, 1420 LF.		
		Along McBean Park Drive from the southeast corner of the Enclave at Horizon		
V1TR5	8' Wide Trail	Edge subdivision to the entrance to the Walkup Ranch subdivision, Asphalt	\$	11,200
		Trail, 300 LF.		
		Along McBean Park Drive, from the entrance to Walkup Ranch subdivision to		
V1TR6	8' Wide Trail	the McBean Park Drive and Oak Tree Lane intersection, Asphalt Trail, 1,600	\$	59,900
		LF.		
		Along the south side of State Route 193, from the intersection of Oak Tree		
V1TR7	8' Wide Trail	Lane and State Route 193 to the northeast corner of APN: 021–274-033	\$	28,500
		(Highmark parcel), Asphalt Trail, 760 LF.		
		Along the south side of State Route 193, from the northeast corner of APN:		
V1TR8	8' Wide Trail	021—274-033 (Highmark parcel), to the North/South Collector Road, Asphalt	\$	72,800
		trail, 1,940 LF.		
V1TR9	8' Wide Trail	Along the south side of State Route 193, from the North/South Collector Road	\$	22,000
VIIII		to 590 LF east of the North/ South Collector Road. Asphalt trail, 590 LF.	Ψ	22,000
		Along the south side of State Route 193, from 590 LF east of the North/South		
V1TR10	8' Wide Trail	Collector Road to the northwest corner of APN: 021-274-037. Asphalt Trail,	\$	65,200
		1,740 LF.		
		Along the south side of State Route 193, from the northwest corner of APN:	φ.	07 500
V11R11	8' Wide Trail	021-274-037 to the eastern boundary of Village 1. Asphalt Trail, 1,000 LF.	\$	37,500
		Connecting Oak Tree Lane South with the proposed North/South Collector		
V1TR12	10' Wide Trail	Road. This trail will also go around the existing lake feature located near the	\$	338,000
		Regional Park. Asphalt Trail and striping, 5,885 LF		
		Through the proposed park connecting the North and South Collector Road.		
V1TR13	10' Wide Trail	Asphalt trail and striping, 960 LF	\$	36,000
		At the southern border of Village 1 (near the existing water tank) to connect		
V1TR14	10' Wide Trail	the existing trail system to Village 1. Asphalt trail and striping. 600 LF.	\$	34,400
		From Oak Tree Lane North to the eastern Village 1 boundary across the top of		
V1TR15	8' Wide Trail	the Turkey Creek Golf Course. Asphalt Trail, 3,780 LF.	\$	216,900
Total		and rainey crock con course. risplant fruit, 5,700 Er.	¢	1,331,100



V1R12 Oak Tree Lane/Ferrari Ranch Road Traffic Signal - Signal Appurtenances and associated Widening

V1R13 Oak Tree Lane East Side Bridge - 2 Lane Bridge, with Abutments and Approaches

V1R14 Oak Tree Lane Widening - 2 inside lanes 980 LF

V1R15 Oak Tree Lane Widening - 1 Lane, Curb and Gutter, Sidewalk and Frontage Landscaping in Front of City of Lincoln Parcel

V1R16 Virginiatown Road Widening - 1 Lane and Frontage Landscaping in Front of City of Lincoln Parcel

V1R17 McBean Park Drive Widening - 1 Lane, 1/2 Landscape Median, 1 NEV Lane and 35' wide frontage landscaping, 3,670 LF

V1R18 State Route 193, 1 South Side Lane 3,050 LF

V1R19 McBean Park Drive Widening - 2 Lanes, 3,670 LF

V1R20 State Route 193, 1 North Side Lane 3,050 LF

V1R21 State Route 193/North Collector Traffic Signal - Signal Appurtenances and associated Widening

Disclaimer:

1540 Eureka Rd. Ste. 100

Roseville, CA 95661

This Exhibit is based on Specific Plan and Conceptual Design. Finals Costs will be based on Final Improvement Plans.



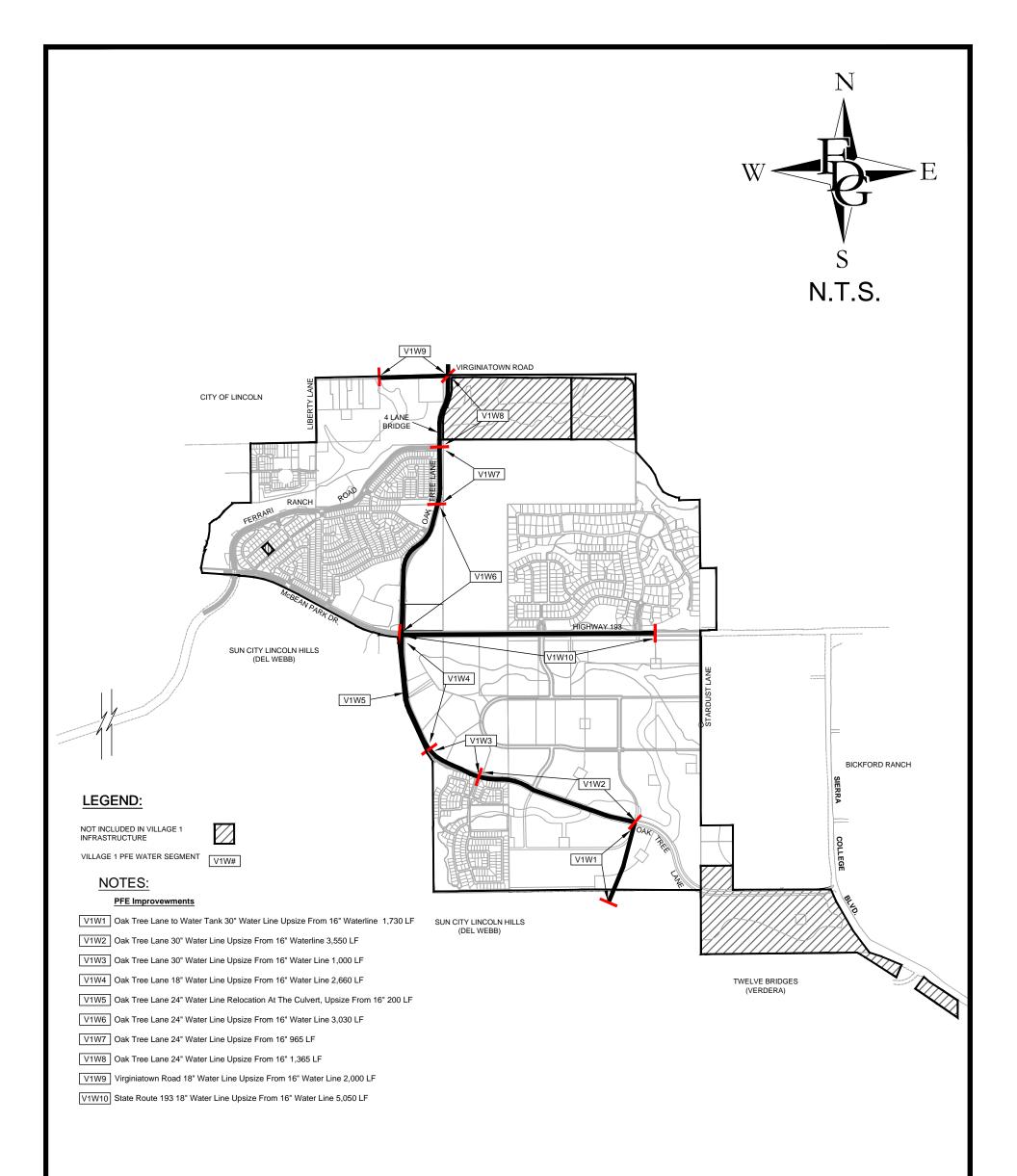
CIVIL ENGINEERING • PLANNING • SURVEYING

Appendix 10.1: PFE Improvements Map - Roads

Revised 8/9/2016

(916) 782-3000 Phone

(916) 782-3955 Fax



Disclaimer:

Roseville, CA 95661

This Exhibit is based on Specific Plan and Conceptual Design. Finals Costs will be based on Final Improvement Plans.

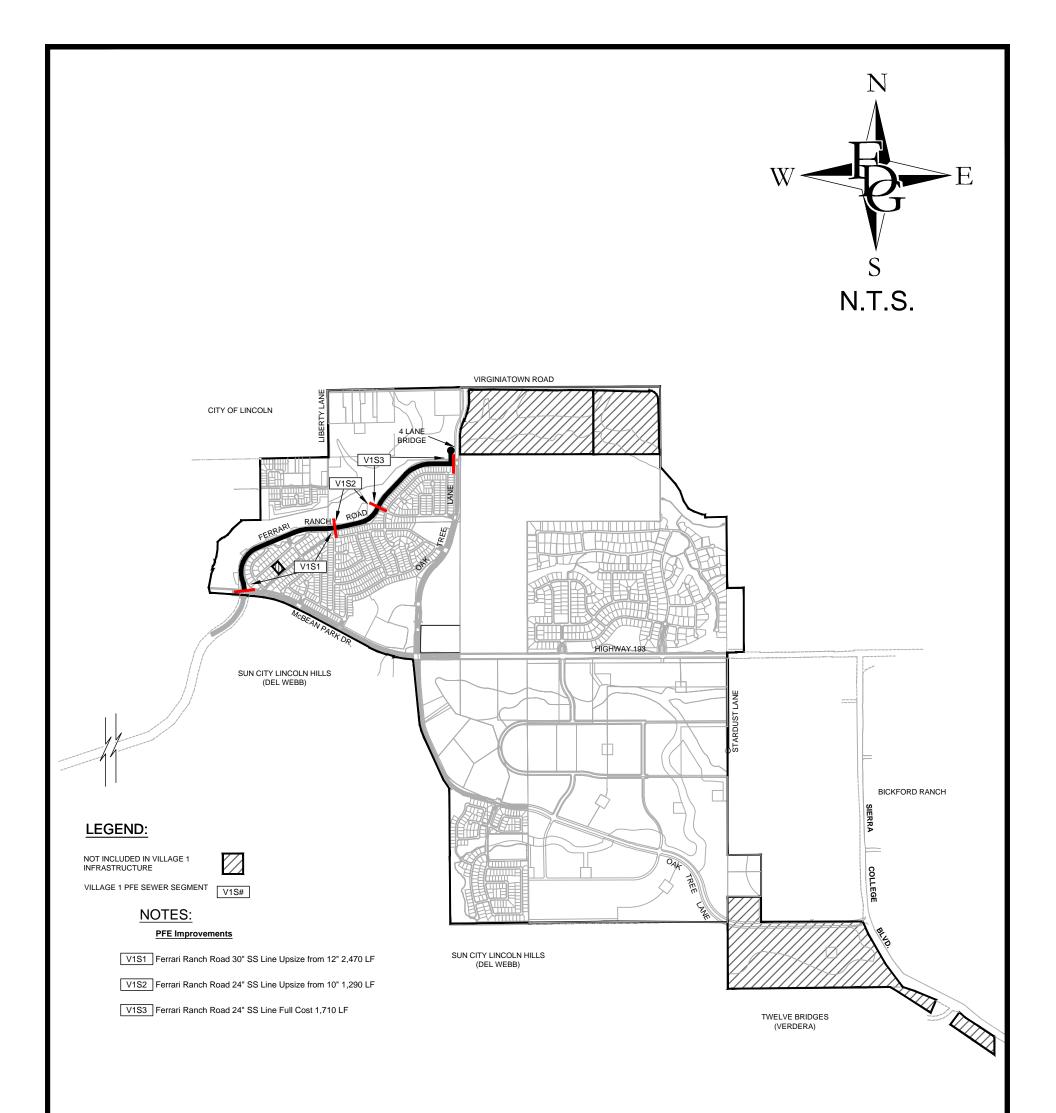


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Appendix 10.2: PFE Improvements Map - Water

Revised 8/9/2016

(916) 782-3955 Fax



Disclaimer:

Roseville, CA 95661

This Exhibit is based on Specific Plan and Conceptual Design. Finals Costs will be based on Final Improvement Plans.

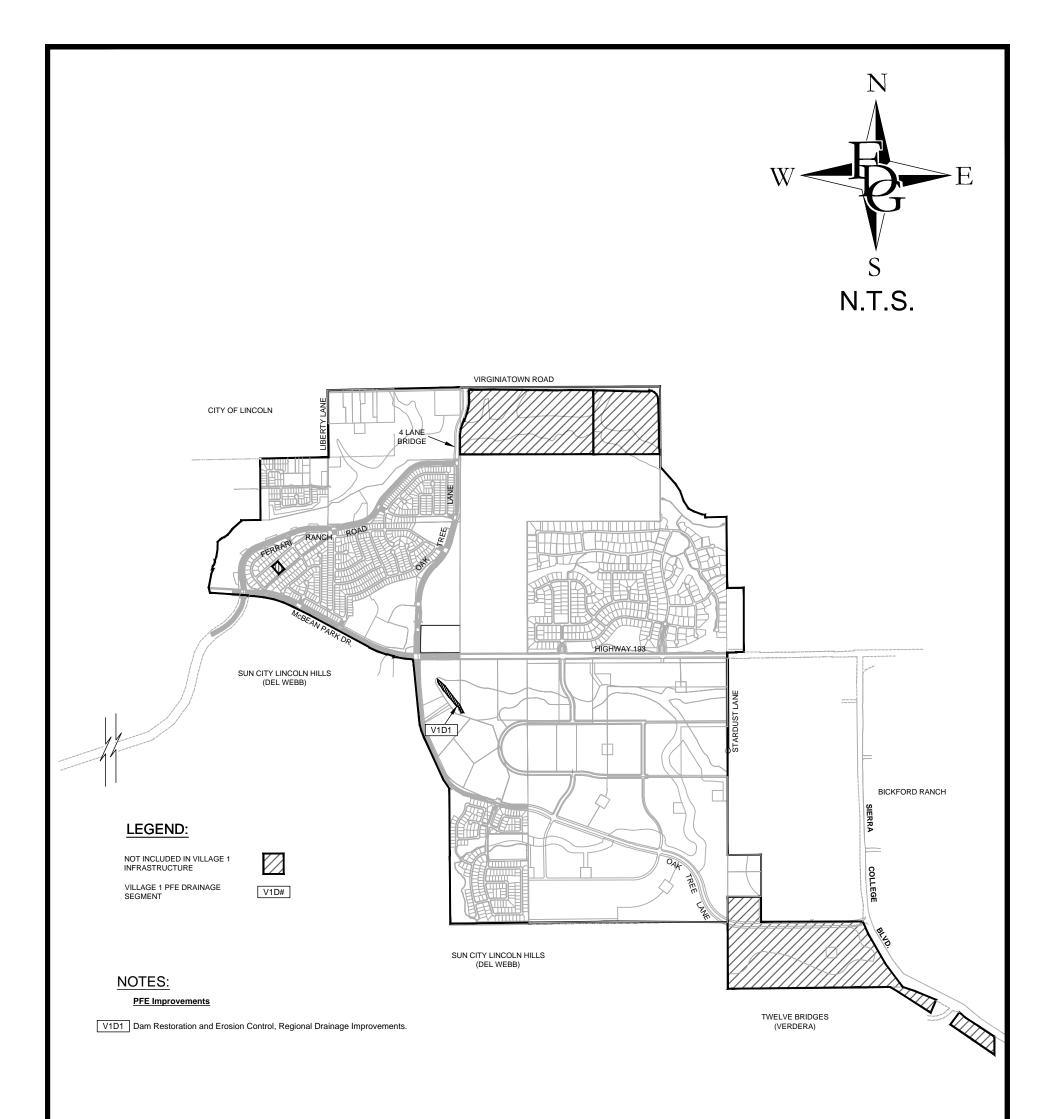


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Appendix 10.3: PFE Improvements Map - Sewer

Revised 8/9/2016

(916) 782-3955 Fax



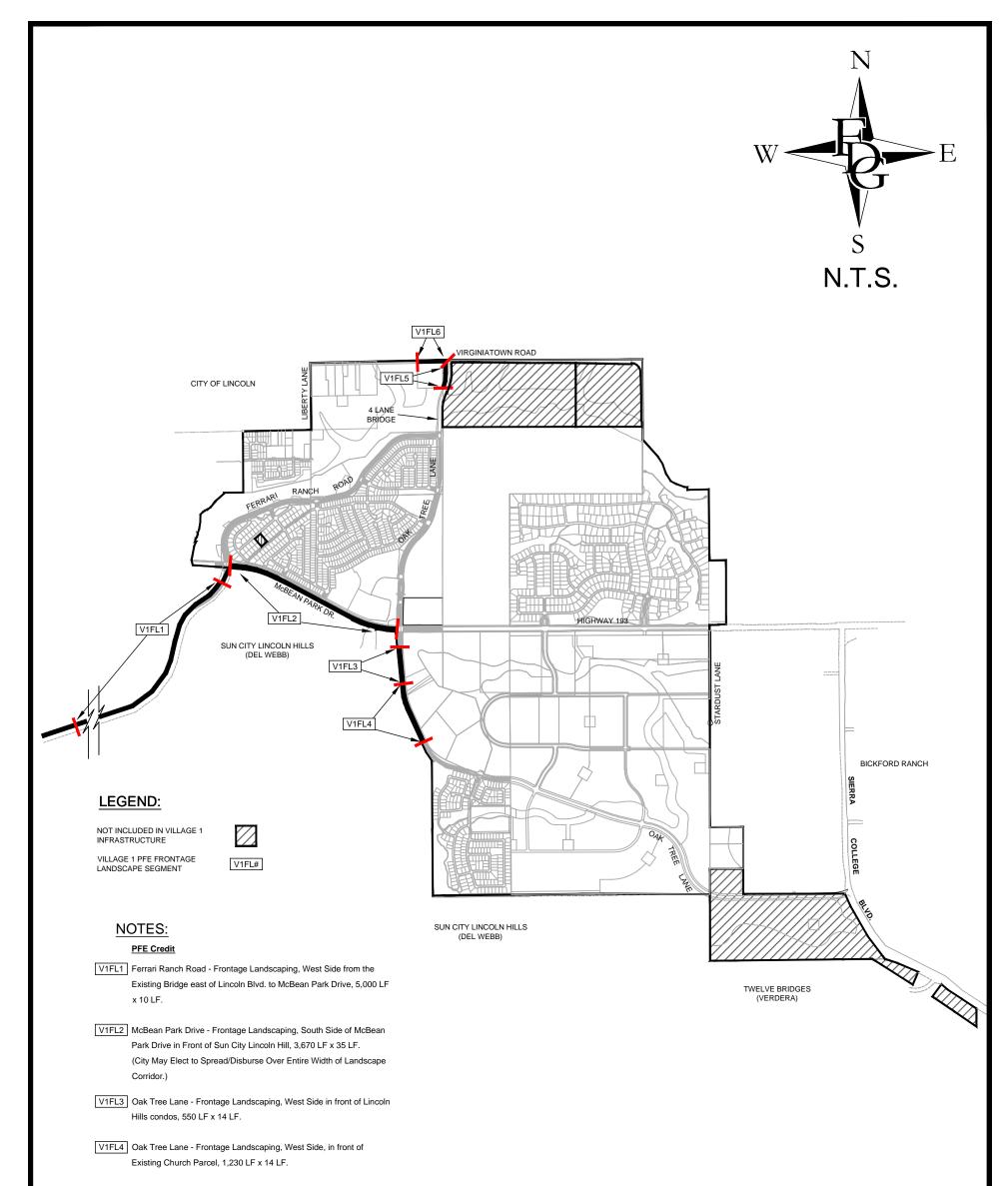
Disclaimer:

This Exhibit is based on Specific Plan and Conceptual Design. Finals Costs will be based on Final Improvement Plans.



Appendix 10.4: PFE Improvements Map - Drainage Civil Engineering • Planning • Surveying

Revised 8/9/2016



V1FL5 Oak Tree Lane - Frontage Landscaping, West Side, Along Open Space, Orphaned Land and City Parcel, 600 LF x 5 LF.

V1FL6 Virginiatown Road - Frontage Landscaping, South Side, City Parcel, 525 LF x 5 LF.

Disclaimer:

This Exhibit is based on Specific Plan and Conceptual Design. Finals Costs will be based on Final Improvement Plans.

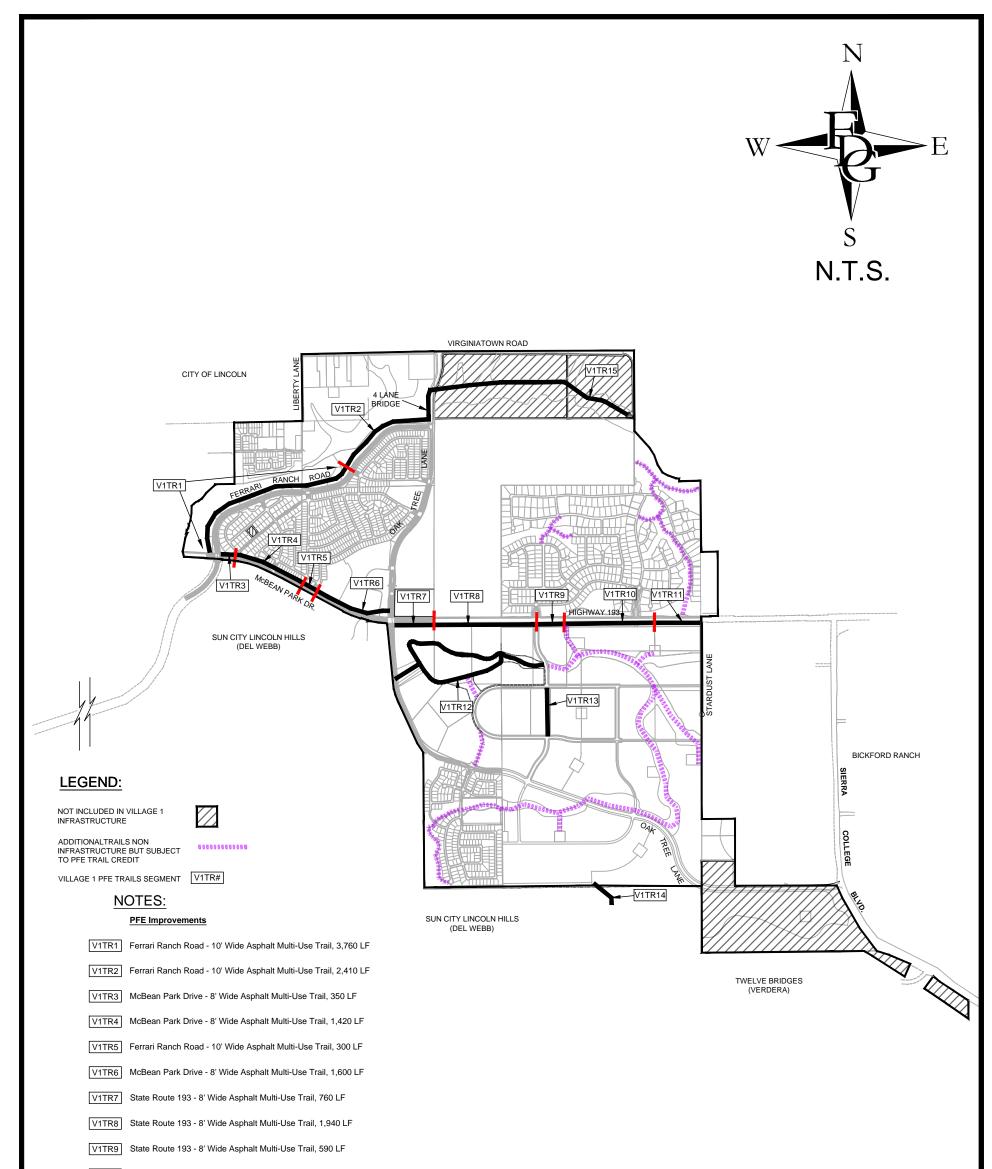


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Revised 8/9/2016

Appendix 10.5: PFE Improvements Map -Frontage Landscaping



V1TR10 State Route 193 - 8' Wide Asphalt Multi-Use Trail, 1,740 LF

V1TR11 State Route 193 - 8' Wide Asphalt Multi-Use Trail, 1,000 LF

V1TR12 Around Existing Lake - 10' Wide Asphalt Multi-Use Trail, 5,885 LF

V1TR13 Connection North/South Collectors - 10' Wide Asphalt Multi-Use Trail, 960 LF

V1TR14 Connection to Existing Trail System - 10' Wide Asphalt Multi-Use Trail, 600 LF

V1TR15 Across Open Space - 8' Wide Asphalt Multi-Use Trail, 3,780 LF

Note: V1TR15 To Be Built Part Of Village 1 Finance, Even Though Properties Are Not Participating

Appendix 10.6: PFE Improvements Map - Trails

Disclaimer:

This Exhibit is based on Specific Plan and Conceptual Design. Finals Costs will be based on Final Improvement Plans.



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CIVIL ENGINEERING • PLANNING • SURVEYING

Revised 8/9/2016

### CITY OF LINCOLN Residential PFE Fees per EDU

## SOUTH - Very Low Density

TOTALS	\$	32,107.40	\$ 1,692.43	\$	843.56	\$	34,643.39
	\$	7,422.83	\$ -	\$	184.89	\$	7,607.72
Solid Waste	\$	781.57	\$ -	\$	19.96	\$	801.53
Library	\$	-	\$ -	\$	-	\$	-
City Administration	s	947.55	\$ -	\$	23.11	\$	970.66
Fire	\$	543.11	\$ -	\$	13.66	\$	556.77
Police	\$	1,070.46	\$ -	\$	26.26	\$	1,096.72
Park Construction Fee	\$	4,080.14	\$ -	\$	101.90	\$	4,182.04
Community Services Fee							
South	\$	327.86	\$ 1,016.78	\$	33.62	\$	1,378.26
Drainage							
Transportation	\$	2,945.42	\$ 601.06	\$	89.29	\$	3,635.77
	\$	13,427.49	\$ 74.59	\$	336.16	\$	13,838.24
Groundwater & Transmission	\$	6,130.72	\$ 74.59	\$	154.42	\$	6,359.73
Storage	\$	7,296.77	\$ -	\$	181.74	\$	7,478.51
Water Connection							
Sewer Connection	\$	7,983.80	\$ -	\$	199.60	\$	8,183.40
PFE FEE DESCRIPTION	<u> </u>	Ion-Critical	Critical	Ac	lmin. Fee	Т	OTAL FEE

## CITY OF LINCOLN

### **Residential PFE Fees per EDU**

#### **SOUTH - Low Density**

PFE FEE DESCRIPTION		Ion-Critical		Critical	Ac	lmin. Fee	TOTAL FEE		
Sewer Connection	\$	6,286.19	\$	<u> </u>	\$	157.58	\$	6,443.77	
Water Connection	+	<u> </u>							
Storage	\$	3,079.02	\$	-	\$	76.69	\$	3,155.71	
Groundwater & Transmission	\$	2,586.43	\$	31.42	\$	65.13	\$	2,682.98	
	\$	5,665.45	\$	31.42	\$	141.82	\$	5,838.69	
Transportation	\$	2,945.42	\$	601.06	\$	89.29	\$	3,635.77	
Drainage	+		 						
South	\$	252.04	\$	781.66	\$	26.26	\$	1,059.96	
Community Services Fee									
Park Construction Fee	\$	4,080.14	\$	-	\$	101.90	\$	4,182.04	
Police	\$	1,070.46	\$	-	\$	26.26	\$	1,096.72	
Fire	\$	543.11	\$	-	\$	13.66	\$	556.77	
City Administration	\$	947.55	\$	_	\$	23.11	\$	970.66	
Library	\$	-	\$	-	\$	-	\$	-	
Solid Waste	\$	781.57	\$	-	\$	19.96	\$	801.53	
	\$	7,422.83	\$	-	\$	184.89	\$	7,607.72	
TOTALS	\$	22,571.93	\$	1,414.14	\$	599.84	\$	24,585.91	

### CITY OF LINCOLN Residential PFE Fees per EDU

#### **SOUTH - Medium Density**

PFE FEE DESCRIPTION	N	Ion-Critical	Critical	Ac	lmin. Fee	TOTAL FEE		
Sewer Connection	\$	6,286.19	\$ -	\$	157.58	\$	6,443.77	
Water Connection	-		 					
Storage	\$	3,079.02	\$ -	\$	76.69	\$	3,155.71	
Groundwater & Transmission	\$	2,586.43	\$ 31.42	\$	65.13	\$	2,682.98	
	\$	5,665.45	\$ 31.42	\$	141.82	\$	5,838.69	
Transportation	\$	2,120.96	\$ 432.81	\$	64.08	\$	2,617.85	
Drainage	$\left  \right $		<u></u> -					
North	\$	176.48	\$ 547.31	\$	17.86	\$	741.65	
Community Services Fee								
Park Construction Fee	\$	4,080.14	\$ -	\$	101.90	\$	4,182.04	
Police	\$	1,070.46	\$ -	\$	26.26	\$	1,096.72	
Fire	\$	543.11	\$ -	\$	13.66	\$	556.77	
City Administration	\$	947.55	\$ -	\$	23.11	\$	970.66	
Library	S	-	\$ -	\$	-	\$	-	
Solid Waste	\$	781.57	\$ -	\$	19.96	\$	801.53	
	\$	7,422.83	\$ -	\$	184.89	\$	7,607.72	
TOTALS	\$	21,671.91	\$ 1,011.54	\$	566.23	\$	23,249.68	

## CITY OF LINCOLN

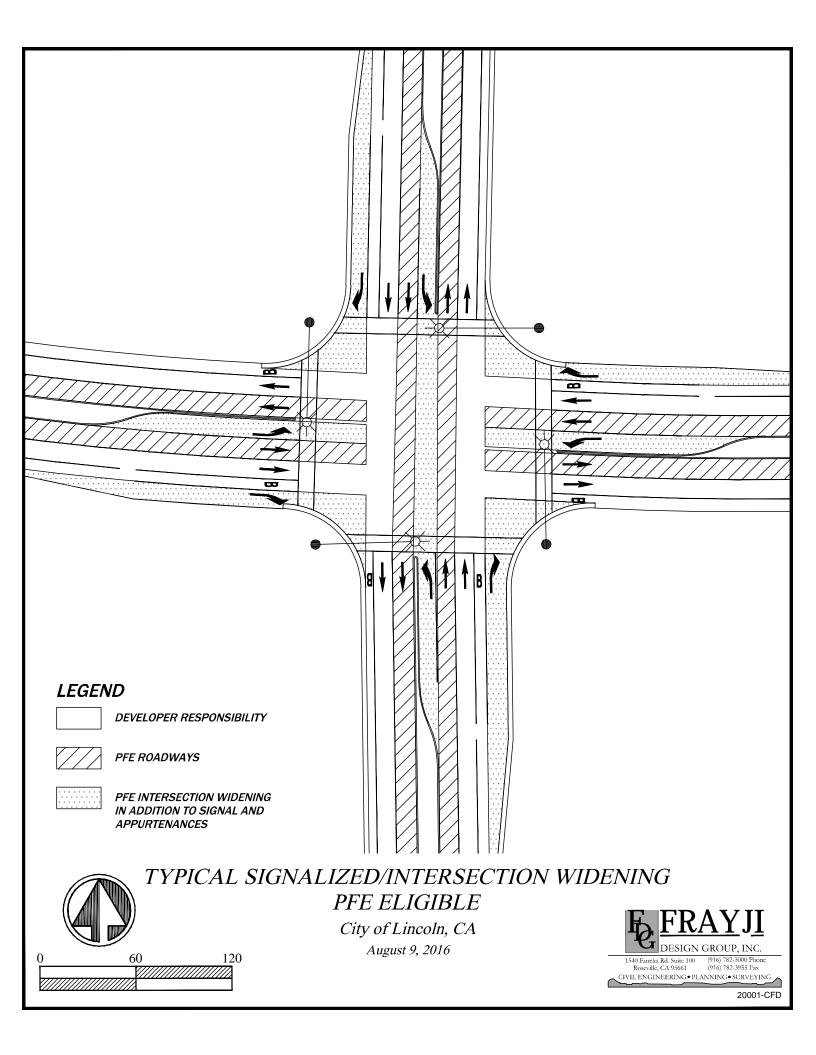
## Residential PFE Fees per EDU

#### **SOUTH - High Density**

TOTALS	\$	15,612.92	\$	637.27	\$	405.50	\$	16,655.69
	S	5,343.90	\$	-	\$	133.42	\$	5,477.32
Solid Waste	\$	562.02	\$	-	\$	14.71	\$	576.73
Library	\$	-	\$	-	\$	-	\$	-
City Administration	\$	681.77	\$		\$	16.81	\$	698.58
Fire	\$	391.84	\$	-	\$	9.45	\$	401.29
Police	\$	771.07	\$		\$	18.91	\$	789.98
Park Construction Fee	\$	2,937.20	\$	-	\$	73.54	\$	3,010.74
Community Services Fee					L			
North	\$	60.42	\$	187.49	\$	6.30	\$	254.21
Drainage								
	<b>₽</b>	2,120.90	Þ	432.81	<u></u> .	64.08	\$	2,617.85
Transportation	\$	2,120.96	\$	432.81	\$	64.08	c	0.647.9
	\$	3,058.90	\$	16.97	\$	76.69	\$	3,152.56
Groundwater & Transmission	\$	1,397.01	\$	16.97	\$	34.67	\$	1,448.69
Storage	\$	1,661.89	\$		\$	42.02	\$	1,703.91
Water Connection								
	<b></b>	5,020.74	<b> </b> Ψ		φ	120.01	φ	5,153.7
Sewer Connection	\$	5,028.74	\$	•	\$	125.01	\$	E 450 7

# APPENDIX 11 Lincoln Village 1 Specific Plan Infrastructure Finance Plan Typical Signalized/ Intersection Widening PFE Eligible Diagram





# APPENDIX 12 Lincoln Village 1 Specific Plan Infrastructure Finance Plan Cost Summaries per Phase (Phase 1 thru 8)





Description		VCE	VLDR	VMDR	VHDR	VMU	Total
Number of Units		204	916	0	0	0	1120
Acres		102	229.1	0	0	0	331.1
nfrastructure Costs per Land Use for Phase 1 + Phas	ie 2						
Water	\$	1,161,500	\$ 2,200,500	\$ -	\$ -	\$ -	\$ 3,362,00
Amenities	\$	523,100	\$ 991,000	\$ -	\$ -	\$ -	\$ 1,514,10
Roadway	\$	3,057,100	\$ 13,726,800	\$ -	\$ -	\$ -	\$ 16,783,90
Wastewater	\$	472,500	\$ 1,670,400	\$ -	\$ -	\$ -	\$ 2,142,90
Drainage	\$	1,294,200	\$ 4,470,100	\$ -	\$ -	\$ -	\$ 5,764,30
Trails, Landscaping and Parks	\$	137,300	\$ 616,300	\$ -	\$ -	\$ -	\$ 753,60
Subtotal for Phase 1 & 2	\$	6,645,700	\$ 23,675,100	\$ -	\$ -	\$ -	\$ 30,320,80
nfrastructure Costs Per Land Use (Based on Develop	able						
Water	\$	11,387	\$ 9,605	\$ -	\$ -	\$ -	
Amenities	\$	5,128	\$ 4,326	\$ -	\$ -	\$ -	
Roadway	\$	29,972	\$ 59,916	\$ -	\$ -	\$ -	
Wastewater	\$	4,632	\$ 7,291	\$ -	\$ -	\$ -	
Drainage		12,688	\$ 19,512	\$ -	\$ -	\$ -	
Trails, Landscaping and Parks		1,346	\$ 2,690	\$ -	\$ -	\$ -	
Subtotal per Developable Acres for Phase 1 & 2	\$	65,154	\$ 103,340	\$ -	\$ -	\$ -	
Subtotal per Developable Acres for Village 1	\$	49,421	\$ 78,602	\$ -	\$ -	\$ -	
Difference	\$	15,733	\$ 24,737	\$ -	\$ -	\$ -	



Description	VC	СE		VLDR		VMDR		/HDR		VMU		Total
Number of Units	20	)4		916		0		0		0		1120
Acres	1(	)2		229.1		0		0		0		331.1
PFE Infrastructure Costs per Land Use Phase 1 & 2	•		•	110.000	•		•		•			004.44
Water		218,100	\$	413,300	\$	-	\$	-	\$	-	\$	631,40
Amenities	Ŧ	51,200	\$	96,900	\$	-	\$	-	\$	-	\$	148,10
Roadway		516,900	\$	2,321,100	\$	-	\$ \$	-	\$ \$	-	\$	2,838,00
Wastewater	<b>T</b>	122,800	\$	434,000	\$ \$	-	\$ \$		\$ \$	-	\$ \$	556,80
Drainage Trails, Landscaping and Parks		-	ֆ Տ	-	ֆ Տ	-	ծ \$	-	ծ \$	-	Դ Տ	-
Subtotal for Phase 1 & 2		909,000	Ψ \$	3,265,300	φ \$		Ψ \$		Ψ \$		Ψ \$	4,174,30
Sublotation Filase 1 & 2	φ	909,000	φ	3,203,300	φ	_	φ	-	φ		φ	4,174,30
PFE Infrastructure Costs per Land Use (Based on Dev	/elopable	Acres)										
Water		2,138	\$	1,804	\$	-	\$	-	\$	-		
Amenities	\$	502	\$	423	\$	-	\$	-	\$	-		
Roadway	\$	5,068	\$	10,131	\$	-	\$	-	\$	-		
Wastewater	\$	1,204	\$	1,894	\$	-	\$	-	\$	-		
Drainage	\$	-	\$	-	\$	-	\$	-	\$	-		
Trails, Landscaping and Parks	\$	-	\$	-	\$	-	\$	-	\$	-		
Subtotal for Phase 1 & 2	\$	8,912	\$	14,253	\$	-	\$	-	\$	-		



		VCE		VLDR		VMDR		VHDR		VMU	Total
Number of Units		28		505		0		0		0	533
Acres		13.8		126.3		0	0		0		140.1
nfrastructure Costs per Land Use for Phase 1							-				
Water	\$	287,479	\$	2,187,721	\$	-	\$	-	\$	-	\$ 2,475,20
Amenities	\$	136,063	\$	1,035,437	\$	-	\$	-	\$	-	\$ 1,171,50
Roadway		716,989	\$	12,931,411		-	\$	-	\$	-	\$ 13,648,40
Wastewater		114,319		1,623,481	\$	-	\$	-	\$	-	\$ 1,737,80
Drainage	\$	365,116		5,065,484		-	\$	-	\$	-	\$ 5,430,60
Trails, Landscaping and Parks	\$	14,825	\$	267,375	\$	-	\$	-	\$	-	\$ 282,20
											 ,
Subtotal for Phase 1	\$	1,634,791	\$	23,110,909		-	\$	-	\$	-	\$ 24,745,70
						-	\$	-	\$	-	\$
nfrastructure Costs Per Land Use (Based on De	evelo	pable Acres	)	23,110,909	\$	-		-		•	\$
nfrastructure Costs Per Land Use (Based on Do Water	evelo \$	pable Acres 20,832	)	<b>23,110,909</b> 17,322	<b>\$</b>	- -	\$	-	\$	-	\$
nfrastructure Costs Per Land Use (Based on De	evelo \$	pable Acres 20,832 9,860	)	<b>23,110,909</b> 17,322 8,198	\$ \$		\$				\$
nfrastructure Costs Per Land Use (Based on Do Water	evelo \$ \$	pable Acres 20,832 9,860 51,956	)	<b>23,110,909</b> 17,322 8,198 102,386	\$ \$ \$ \$		\$		\$	-	\$
nfrastructure Costs Per Land Use (Based on Do Water Amenities Roadway Wastewater	evelo \$ \$ \$ \$	pable Acres 20,832 9,860	) \$ \$	<b>23,110,909</b> 17,322 8,198	\$ \$ \$ \$		\$		\$\$	-	\$
nfrastructure Costs Per Land Use (Based on De Water Amenities Roadway Wastewater Drainage	evelo \$ \$ \$ \$	pable Acres 20,832 9,860 51,956	) \$ \$ \$	<b>23,110,909</b> 17,322 8,198 102,386	\$ \$ \$ \$		\$ \$ \$		\$ \$ \$	-	\$
nfrastructure Costs Per Land Use (Based on Do Water Amenities Roadway Wastewater	evelo \$ \$ \$ \$	pable Acres 20,832 9,860 51,956 8,284	) \$ \$ \$ \$	23,110,909 17,322 8,198 102,386 12,854	<b>\$</b> ዓ ዓ ዓ ዓ ዓ	- - - - -	\$ \$ \$ \$		\$ \$ \$ \$		
nfrastructure Costs Per Land Use (Based on De Water Amenities Roadway Wastewater Drainage	evelo \$ \$ \$ \$ \$	pable Acres 20,832 9,860 51,956 8,284 26,458	) \$ \$ \$ \$ \$ \$ \$ \$	23,110,909 17,322 8,198 102,386 12,854 40,107	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - -	\$ \$ \$ \$ \$		\$ \$ \$ \$ \$		\$
nfrastructure Costs Per Land Use (Based on De Water Amenities Roadway Wastewater Drainage Trails, Landscaping and Parks	evelo \$ \$ \$ \$ \$ \$ \$ \$ \$	pable Acres 20,832 9,860 51,956 8,284 26,458 1,074	) \$ \$ \$ \$ \$ \$ \$ \$	23,110,909 17,322 8,198 102,386 12,854 40,107 2,117	\$         \$		\$ \$ \$ \$ \$ \$		\$ \$ \$ \$ \$ \$		



· · ·		VCE		VLDR		VMDR		VHDR	VMU		Total
Number of Units		28		505		0		0		0	533
Acres		13.8		126.3	0		0		0		140.1
PFE Infrastructure Costs per Land Use for Phas	e 1				•		•				
Water	\$	54,367	\$	413,733	\$	-	\$	-	\$	-	\$ 468,10
Amenities	\$	17,201	\$	130,899	\$	-	\$	-	\$	-	\$ 148,10
Roadway	\$	149,088	\$	2,688,912	\$	-	\$	-	\$	-	\$ 2,838,000
Wastewater	\$	23,814	\$	338,186	\$	-	\$	-	\$	-	\$ 362,00
Drainage	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -
Trails, Landscaping and Parks	\$	-	\$	-	\$	-	\$	-	\$	-	\$ -
Subtotal for Phase 1	\$	244,470	\$	3,571,730	\$	-	\$	-	\$	-	\$ 3,816,20
PFE Infrastructure Costs per Land Use (Based o	on De	evelopable A	cres	)							
Water	\$	3,940	\$	3,276	\$	-	\$	-	\$	-	
Amenities	\$	1,246	\$	1,036	\$	-	\$	-	\$	-	
Roadway	\$	10,803	\$	21,290	\$	-	\$	-	\$	-	
Wastewater	\$	1,726	\$	2,678	\$	-	\$	-	\$	-	
Drainage		-	\$	-	\$	-	\$	-	\$	-	
Trails, Landscaping and Parks	\$	-	\$	-	\$	-	\$	-	\$	-	
Subtotal for Phase 1	\$	17,715	\$	28,280	\$	-	\$	-	\$	-	



		VCE		VLDR		VMDR		VHDR		VMU	Total
Number of Units		176		411		0		0		0	587
Acres		88.2		102.8		0		0		0	191
nfrastructure Costs per Land Use for Phase 2							-				
Water	\$	446,677	\$	440,123	\$	-	\$	-	\$	-	\$ 886,80
Amenities	\$	172,566	\$	170,034	\$	-	\$	-	\$	-	\$ 342,60
Roadway		940,116	\$	2,195,384	\$	-	\$	-	\$	-	\$ 3,135,50
Wastewater	-	142,703	\$	262,397	\$	-	\$	-	\$	-	\$ 405,10
Drainage		119,335	\$	214,365	\$	-	\$	-	\$	-	\$ 333,70
Trails, Landscaping and Parks	\$	141,340	\$	330,060	\$	-	\$	-	\$	-	\$ 471,40
Subtotal for Phase 2	\$	1,962,736	\$	3,612,364	\$	-	\$	-	\$	-	\$ 5,575,10
nfrastructure Costs Per Land Use (Based on D	avelo	nable Acres	)								
initiastructure costs i er Land ose (based on b		pable Acies	,								
Water		5,064	\$	4,281	\$	-	\$	-	\$	-	
	\$	• •		4,281 1,654	\$ \$	-	\$ \$	-	\$ \$	-	
Water	\$ \$	5,064	\$	•							
Water Amenities	\$ \$ \$	5,064 1,957	\$ \$	1,654	\$	-	\$	-	\$	-	
Water Amenities Roadway	\$ \$ \$	5,064 1,957 10,659	\$ \$ \$	1,654 21,356	\$ \$	-	\$ \$	-	\$ \$	-	
Water Amenities Roadway Wastewater	\$ \$ \$ \$	5,064 1,957 10,659 1,618	\$ \$ \$	1,654 21,356 2,552	\$ \$ \$	-	\$ \$ \$	-	\$ \$		
Water Amenities Roadway Wastewater Drainage	\$ \$ \$ \$ \$	5,064 1,957 10,659 1,618 1,353	\$ \$ \$ \$	1,654 21,356 2,552 2,085	\$ \$ \$		\$ \$ \$		\$ \$ \$	-	
Water Amenities Roadway Wastewater Drainage Trails, Landscaping and Parks	\$ \$ \$ \$ \$ \$	5,064 1,957 10,659 1,618 1,353 1,602	\$ \$ \$ \$	1,654 21,356 2,552 2,085 3,211	\$ \$ \$ \$ \$		\$ \$ \$ \$ \$		\$ \$ \$ \$ \$ \$		



· · ·		VCE		VLDR		VMDR	VHDR		VMU	Total
Number of Units		176		411		0	0		0	587
Acres		88.2		102.8		0	0		0	191
FE Infrastructure Costs per Land Use for Phas	e 2				-					
Water	\$	82,253	\$	81,047	\$	-	\$ -	\$	-	\$ 163,300
Amenities	Ŧ	-	\$	-	\$	-	\$ -	\$	-	\$ -
Roadway	\$	-	\$	-	\$	-	\$ -	\$	-	\$ -
Wastewater		68,621	\$	126,179	\$	-	\$ -	\$	-	\$ 194,800
Drainage		-	\$	-	\$	-	\$ -	\$	-	\$ -
Trails, Landscaping and Parks	\$	-	\$	-	\$	-	\$ -	\$	-	\$ -
Subtotal for Phase 2	\$	150,875	\$	207,225	\$	-	\$ -	\$	-	\$ 358,10
PFE Infrastructure Costs per Land Use (Based of			cres)					_		
Water	\$	933	\$	788	\$	-	\$ -	\$	-	
Amenities	\$	-	\$	-	\$	-	\$ -	\$	-	
Roadway	\$	-	\$	-	\$	-	\$ -	\$	-	
Wastewater	Ŧ	778	\$	1,227	\$	-	\$ -	\$	-	
Drainage		-	\$	-	\$	-	\$ -	\$	-	
Trails, Landscaping and Parks	\$	-	\$	-	\$	-	\$ -	\$	-	
Subtotal for Phase 2	\$	1,711	\$	2,016	\$	-	\$ -	\$	-	



		VCE		VLDR		VMDR		VHDR		VMU	Total
Number of Units		0		562		136		0		196	894
Acres		0		140.3		17		0		10.9	168.2
nfrastructure Costs per Land Use for Phase 3											
Water	\$	-	\$	972,929	\$	235,442	\$	-	\$	183,229	\$ 1,391,60
Amenities	Ŧ	-	\$	2,153,574	\$	521,149	\$	-	\$	405,577	\$ 3,080,30
Roadway		-	\$	5,920,841	\$	1,031,617	\$	-	\$	1,486,742	8,439,20
Wastewater	\$	-	\$	118,541	\$	28,686	\$	-	\$	33,073	180,30
Drainage	\$	-	\$	1,219,619	\$	206,597	\$	-	\$	102,083	\$ 1,528,30
Trails, Landscaping and Parks	\$	-	\$	252,763	\$	61,167	\$	-	\$	63,470	\$ 377,40
Subtotal for Phase 3	\$	-	\$	10,638,267	\$	2,084,659	\$	-	\$	2,274,175	\$ 14,997,10
				, ,	•	, ,					
				, ,		, ,			-		
nfrastructure Costs Per Land Use (Based on De	evelop	bable Acres)	)								
nfrastructure Costs Per Land Use (Based on De Water		bable Acres) -	)	6,935	\$	13,850	\$	-	\$	16,810	
*	\$	oable Acres) - -			\$				\$	16,810 37,209	
Water	\$ \$	Dable Acres) - - -	\$	6,935		13,850	\$	-			
Water Amenities	\$ \$ \$	pable Acres) - - - - -	\$ \$	6,935 15,350	\$	13,850 30,656	\$		\$	37,209	
Water Amenities Roadway	\$ \$ \$ \$	bable Acres) - - - - - -	\$ \$ \$	6,935 15,350 42,201	\$ \$	13,850 30,656 60,683	\$ \$ \$		\$ \$	37,209 136,398	
Water Amenities Roadway Wastewater	\$ \$ \$ \$	-	\$ \$ \$	6,935 15,350 42,201 845	\$ \$ \$	13,850 30,656 60,683 1,687	\$ \$ \$ \$		\$ \$ \$	37,209 136,398 3,034	
Water Amenities Roadway Wastewater Drainage	\$ \$ \$ \$ \$	-	\$ \$ \$ \$	6,935 15,350 42,201 845 8,693	\$ \$ \$ \$	13,850 30,656 60,683 1,687 12,153	\$ \$ \$ \$ \$		\$ \$ \$	37,209 136,398 3,034 9,365	
Amenities Roadway Wastewater Drainage Trails, Landscaping and Parks	\$ \$ \$ \$ \$ \$ \$		\$ \$ \$ \$ \$	6,935 15,350 42,201 845 8,693 1,802	\$ \$ \$ \$	13,850 30,656 60,683 1,687 12,153 3,598	\$ \$ \$ \$ \$ \$		\$ \$ \$ \$	37,209 136,398 3,034 9,365 5,823	



		VCE		VLDR	VMDR		VHDR	VMU	Total
Number of Units		0		562	136		0	196	894
Acres		0		140.3	17		0	10.9	168.2
PFE Infrastructure Costs per Land Use for Phas	e 3								
Water	\$	-	\$	420,186	\$ 101,682	\$	-	\$ 79,132	\$ 601,00
Amenities	\$	-	\$	207,716	\$ 50,266	\$	-	\$ 39,119	\$ 297,10
Roadway	\$	-	\$	4,603,329	\$ 802,060	\$	-	\$ 1,155,911	\$ 6,561,30
Wastewater	\$	-	\$	285,865	\$ 69,177	\$	-	\$ 79,757	\$ 434,80
Drainage	\$	-	\$	94,805	\$ 16,060	\$	-	\$ 7,935	\$ 118,80
Trails, Landscaping and Parks	\$	-	\$	-	\$ -	\$	-	\$ -	\$ -
Subtotal for Phase 3	\$	-	\$	5,611,901	\$ 1,039,245	\$	-	\$ 1,361,854	\$ 8,013,00
FE Infrastructure Costs per Land Use (Based of	on De	velopable A	cres			-			
Water	\$	-	\$	2,995	\$ 5,981	\$	-	\$ 7,260	
Amenities	\$	-	\$	1,481	\$ 2,957	\$	-	\$ 3,589	
Roadway	\$	-	\$	32,811	\$ 47,180	\$	-	\$ 106,047	
Wastewater	\$	-	\$	2,038	\$ 4,069	\$	-	\$ 7,317	
Drainage		-	\$	676	\$ 945	\$	-	\$ 728	
Trails, Landscaping and Parks	\$	-	\$	-	\$ -	\$	-	\$ -	
Subtotal for Phase 3	\$	-	\$	39,999	\$ 61,132	\$	-	\$ 124,941	



· · · · · ·		VCE		VLDR		VMDR		VHDR		VMU	Total
Number of Units		114		29		187		157		184	671
Acres		57		7.3		23.4		8.7		10.2	106.6
nfrastructure Costs per Land Use for Phase 4											
Water	\$	412,977	\$	44,327	\$	285,834	\$	129,588	\$	151,874	\$ 1,024,60
Amenities	\$	157,476	\$	16,903	\$	108,994	\$	49,415	\$	57,913	\$ 390,70
Roadway	\$	1,331,736	\$	338,775	\$	1,572,850	\$	1,320,521	\$	1,547,617	\$ 6,111,50
Wastewater	\$	221,336	\$	44,334	\$	285,881	\$	192,014	\$	225,035	\$ 968,60
Drainage	\$	316,019	\$	61,839	\$	279,128	\$	80,348	\$	94,166	\$ 831,50
Trails, Landscaping and Parks	\$	14,698	\$	3,739	\$	24,109	\$	14,574	\$	17,080	\$ 74,20
Subtotal for Phase 4	\$	2,454,241	\$	509,917	\$	2,556,797	\$	1,786,460	\$	2,093,686	\$ 9,401,10
nfrastructure Costs Per Land Use (Based on De	evel	opable Acres	)								
initiastructure costs i er Land ose (Dased Of Di											
Water	-	7,245	\$	6,072	\$	12,215	\$	14,895	\$	14,890	
	\$			6,072 2,315	\$ \$	12,215 4,658	\$	14,895 5,680	\$ \$	14,890 5,678	
Water	\$ \$	7,245	\$					•	· ·		
Water Amenities	\$ \$	7,245	\$ \$	2,315	\$	4,658	\$	5,680	\$	5,678	
Water Amenities Roadway	\$ \$ \$	7,245 2,763 23,364	\$ \$ \$	2,315 46,408	\$ \$	4,658 67,216	\$ \$	5,680 151,784	\$ \$	5,678 151,727	
Water Amenities Roadway Wastewater	\$ \$ \$ \$	7,245 2,763 23,364 3,883	\$ \$ \$	2,315 46,408 6,073	\$ \$ \$	4,658 67,216 12,217	\$ \$ \$	5,680 151,784 22,071	\$ \$ \$	5,678 151,727 22,062	
Water Amenities Roadway Wastewater Drainage	\$ \$ \$ \$ \$	7,245 2,763 23,364 3,883 5,544	\$ \$ \$ \$	2,315 46,408 6,073 8,471	\$ \$ \$	4,658 67,216 12,217 11,929	\$ \$ \$	5,680 151,784 22,071 9,235	\$ \$ \$ \$	5,678 151,727 22,062 9,232 1,675	
Water Amenities Roadway Wastewater Drainage Trails, Landscaping and Parks	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	7,245 2,763 23,364 3,883 5,544 258	\$ \$ \$ \$ \$	2,315 46,408 6,073 8,471 512	\$ \$ \$ \$	4,658 67,216 12,217 11,929 1,030	\$ \$ \$ \$ \$ \$ \$ \$	5,680 151,784 22,071 9,235 1,675	\$ \$ \$ \$ \$	5,678 151,727 22,062 9,232	



		VCE		VLDR	VMDR	VHDR	VMU	Total
Number of Units		114		29	187	157	184	671
Acres		57		7.3	23.4	8.7	10.2	106.6
FE Infrastructure Costs per Land Use for Phas	e 4							
Water	\$	110,076	\$	11,815	\$ 76,187	\$ 34,541	\$ 40,481	\$ 273,10
Amenities	\$	307,536	\$	33,010	\$ 212,855	\$ 96,502	\$ 113,098	\$ 763,00
Roadway	\$	274,867	\$	69,922	\$ 324,633	\$ 272,553	\$ 319,425	\$ 1,261,40
Wastewater	\$	-	\$	-	\$ -	\$ -	\$ -	\$ -
Drainage	\$	501,677	\$	98,169	\$ 443,114	\$ 127,552	\$ 149,488	\$ 1,320,00
Trails, Landscaping and Parks	\$	-	\$	-	\$ -	\$ -	\$ -	\$ -
Subtotal for Phase 4	\$	1,194,156	\$	212,916	\$ 1,056,789	\$ 531,147	\$ 622,491	\$ 3,617,50
FE Infrastructure Costs per Land Use (Based o	n D	avalonable A	oroc	\				
Water		1,931	\$	1,619	\$ 3,256	\$ 3,970	\$ 3,969	
Amenities	Ŧ	5,395	\$	4,522	\$ 9,096	\$ 11,092	\$ 11,088	
Roadway		4,822	\$	9,578	\$ 13,873	\$ 31,328	\$ 31,316	
Wastewater		-	\$	-	\$ -	\$ -	\$ -	
Drainage	\$	8,801	\$	13,448	\$ 18,937	\$ 14,661	\$ 14,656	
Trails, Landscaping and Parks		-	\$	-	\$ -	\$ -	\$ -	
Subtotal for Phase 4	¢	20,950	\$	29,167	\$ 45,162	\$ 61,051	\$ 61,029	



		VCE		VLDR		VMDR		VHDR		VMU	Total
Number of Units		40		128		229		362		158	917
Acres		19.8		32.1		28.6		20.1		8.8	109.4
nfrastructure Costs per Land Use for Phase 5			•								
Water	\$	68,583	\$	92,602	\$	165,670	\$	141,420	\$	61,725	\$ 530,00
Amenities	\$	72,853	\$	98,367	\$	175,986	\$	150,226	\$	65,568	\$ 563,00
Roadway	\$	357,703	\$	1,144,649	\$	1,474,451	\$	2,330,791	\$	1,017,307	\$ 6,324,90
Wastewater	\$	15,040	\$	37,897	\$	67,799	\$	85,741	\$	37,423	\$ 243,90
Drainage	\$	113,973	\$	280,549	\$	351,343	\$	190,422	\$	83,113	\$ 1,019,40
Trails, Landscaping and Parks	\$	41,509	\$	132,829	\$	237,639	\$	270,472	\$	118,051	\$ 800,50
Subtotal for Phase 5	\$	669,661	\$	1,786,892	\$	2,472,888	\$	3,169,073	\$	1,383,186	\$ 9,481,70
nfrastructure Costs Per Land Use (Based on De	evelo		)								
nfrastructure Costs Per Land Use (Based on Do Water		3,464	) \$	2,885	\$	5,793	\$	7,036	\$	7,014	
	\$			2,885 3,064	\$ \$	5,793 6,153	\$ \$	7,036 7,474	\$ \$	7,014 7,451	
Water	\$ \$	3,464	\$						-		
Water Amenities	\$ \$	3,464 3,679	\$ \$	3,064	\$	6,153	\$	7,474	\$	7,451	
Water Amenities Roadway	\$ \$ \$	3,464 3,679 18,066	\$ \$ \$	3,064 35,659	\$ \$	6,153 51,554	\$ \$	7,474 115,960	\$ \$	7,451 115,603	
Amenities Roadway Wastewater		3,464 3,679 18,066 760	\$ \$ \$	3,064 35,659 1,181	\$ \$	6,153 51,554 2,371	\$ \$ \$	7,474 115,960 4,266	\$ \$ \$	7,451 115,603 4,253	
Water Amenities Roadway Wastewater Drainage	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	3,464 3,679 18,066 760 5,756	\$ \$ \$ \$	3,064 35,659 1,181 8,740	\$\$ \$\$ \$	6,153 51,554 2,371 12,285 8,309	\$ \$ \$ \$	7,474 115,960 4,266 9,474 13,456	\$ \$ \$	7,451 115,603 4,253 9,445 13,415	
Water Amenities Roadway Wastewater Drainage Trails, Landscaping and Parks		3,464 3,679 18,066 760 5,756 2,096	\$ \$ \$ \$	3,064 35,659 1,181 8,740 4,138	\$ \$ \$ \$	6,153 51,554 2,371 12,285	\$ \$ \$ \$	7,474 115,960 4,266 9,474	\$ \$ \$ \$ \$	7,451 115,603 4,253 9,445	



		VCE		VLDR	VMDR	VHDR	VMU		Total
Number of Units		40		128	229	362	158		917
Acres		19.8		32.1	28.6	20.1	8.8		109.4
FE Infrastructure Costs per Land Use for Phas	e 5								
Water	\$	-	\$	-	\$ -	\$ -	\$ -	\$	-
Amenities	\$	-	\$	-	\$ -	\$ -	\$ -	\$	-
Roadway	\$	145,973	\$	467,115	\$ 601,702	\$ 951,162	\$ 415,148	\$	2,581,10
Wastewater	\$	-	\$	-	\$ -	\$ -	\$ -	\$	-
Drainage		-	\$	-	\$ -	\$ -	\$ -	\$	-
Trails, Landscaping and Parks	\$	-	\$	-	\$ -	\$ -	\$ -	\$	-
Subtotal for Phase 5	\$	145,973	\$	467,115	\$ 601,702	\$ 951,162	\$ 415,148	\$	2,581,10
FE Infrastructure Costs per Land Use (Based of	on De	evelopable A	cres)						
Water	\$	-	\$	-	\$ -	\$ -	\$ -		
Amenities	\$	-	\$	-	\$ -	\$ -	\$ -	-	
Roadway	\$	7,372	\$	14,552	\$ 21,039	\$ 47,321	\$ 47,176	-	
Wastewater	\$	-	\$	-	\$ -	\$ -	\$ -	-	
Drainage		-	\$	-	\$ -	\$ -	\$ -		
Trails, Landscaping and Parks	\$	-	\$		\$ -	\$ -	\$ -		
Subtotal for Phase 5		7,372	\$	14,552	\$ 21,039	\$ 47,321	\$ 47,176		



		VCE		VLDR		VMDR		VHDR		VMU	Total
Number of Units		18		455		105		0		164	742
Acres		9.1		113.7		13.1		0		9.1	145
nfrastructure Costs per Land Use for Phase 6											
Water	\$	28,958	\$	308,854	\$	71,274	\$	-	\$	60,115	\$ 469,20
Amenities	\$	10,146	\$	108,217	\$	24,973	\$	-	\$	21,063	\$ 164,40
Roadway	\$	72,942	\$	1,843,805	\$	306,355	\$	-	\$	478,498	\$ 2,701,60
Wastewater	\$	9,431	\$	187,720	\$	43,320	\$	-	\$	54,129	\$ 294,60
Drainage	\$	18,308	\$	355,991	\$	57,506	\$	-	\$	30,795	\$ 462,60
Trails, Landscaping and Parks	\$	5,332	\$	134,785	\$	31,104	\$	-	\$	34,979	\$ 206,20
Subtotal for Phase 6	\$	145,117	\$	2,939,371	\$	534,533	\$	-	\$	679,579	\$ 4,298,60
nfrastructure Costs Per Land Use (Based on De	evelo	opable Acres	)								
Water	\$	3,182	\$	2,716	\$	5,441	\$	-	\$	6,606	
Amenities	\$	1,115	\$	952	\$	1,906	\$	-	\$	2,315	
Roadway	\$	8,016	\$	16,216	\$	23,386	\$	-	\$	52,582	
Wastewater	\$	1,036	\$	1,651	\$	3,307	\$	-	\$	5,948	
	\$	2,012	\$	3,131	\$	4,390	\$	-	\$	3,384	
Drainage		586	\$	1,185	\$	2,374	\$	-	\$	3,844	
Drainage Trails, Landscaping and Parks	\$	500									
Trails, Landscaping and Parks			\$	25.852	\$	40.804	\$	-	S	74.679	
	\$	<u> </u>	\$ \$	25,852 78,602	\$\$	40,804 122,573	\$ \$	-	\$ \$	74,679 222,426	



	VCE		VLDR	VMDR		VHDR		VMU	Total
Number of Units	18		455	105		0		164	742
Acres	9.1		113.7	13.1		0		9.1	145
FE Infrastructure Costs per Land Use for Phas	e 6				·		-		
Water	\$-	\$	-	\$ -	\$	-	\$	-	\$
Amenities	\$-	\$	-	\$ -	\$	-	\$	-	\$
Roadway	\$-	\$	-	\$ -	\$	-	\$	-	\$
Wastewater	\$-	\$	-	\$ -	\$	-	\$	-	\$
Drainage		\$	-	\$ -	\$	-	\$	-	\$
Trails, Landscaping and Parks	\$-	\$	-	\$ -	\$	-	\$	-	\$
Subtotal for Phase 6	\$-	\$	-	\$ -	\$	-	\$	-	\$
FE Infrastructure Costs per Land Use (Based of	on Developable	e Acres)							
Water	\$-	\$	-	\$ -	\$	-	\$	-	
Amenities	\$-	\$	-	\$ -	\$	-	\$	-	
Roadway	\$-	\$	-	\$ -	\$	-	\$	-	
Wastewater	\$-	\$	-	\$ -	\$	-	\$	-	
Drainage		\$	-	\$ -	\$	-	\$	-	
Trails, Landscaping and Parks	\$-	\$	-	\$ -	\$	-	\$	-	
Subtotal for Phase 6	\$ -	\$	-	\$ -	\$	-	\$	-	

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		VCE		VLDR		VMDR		VHDR		VMU	Total
Number of Units		93		0		0		0		0	93
Acres		46.3		0.0		0		0		0	46.3
nfrastructure Costs per Land Use for Phase 6											
Water	\$	570,000	\$	-	\$	-	\$	-	\$	-	\$ 570,00
Amenities	\$	184,600	\$	-	\$	-	\$	-	\$	-	\$ 184,60
Roadway	Ŧ	9,026,300	\$	-	\$	-	\$	-	\$	-	\$ 9,026,300
Wastewater	Ŧ	-	\$	-	\$	-	\$	-	\$	-	\$ -
Drainage		185,000	\$	-	\$	-	\$	-	\$	-	\$ 185,000
Trails, Landscaping and Parks	\$	177,600	\$	-	\$	-	\$	-	\$	-	\$ 177,600
Subtotal for Phase 7	\$	10,143,500	\$	-	\$	-	\$	-	\$	-	\$ 10,143,500
nfrastructure Costs Per Land Use (Based on D	evelo	pable Acres	)								
			,						-		
Water		12,311	\$	-	\$	-	\$	-	\$	-	
	\$			-	\$ \$	-	\$ \$	-	\$ \$	-	
Water	\$ \$	12,311	\$								
Water Amenities	\$ \$ \$	12,311 3,987	\$ \$	-	\$	-	\$	-	\$	-	
Water Amenities Roadway	\$ \$ \$ \$	12,311 3,987 194,952	\$ \$ \$	-	\$ \$	-	\$ \$	-	\$ \$	-	
Water Amenities Roadway Wastewater	\$ \$ \$ \$	12,311 3,987 194,952 -	\$ \$ \$	-	\$	-	\$ \$	-	\$	-	
Water Amenities Roadway Wastewater Drainage	\$ \$ \$ \$ \$	12,311 3,987 194,952 - 3,996	\$ \$ \$ \$ \$		\$ \$ \$ \$ \$ \$		\$ \$ \$	-	<del>ଓ ଓ</del> ୫		
Water Amenities Roadway Wastewater Drainage Trails, Landscaping and Parks	\$ \$ \$ \$ \$ \$ \$ \$	12,311 3,987 194,952 - 3,996 3,836	\$ \$ \$ \$ \$		\$ \$ \$ \$	- - - - -	\$ \$ \$ \$ \$	- - - -	\$ \$ \$ \$ \$ \$	- - - -	



		VCE		VLDR	VMDR	VHDR	VMU	Total
Number of Units		93		0	0	0	0	93
Acres		46.3		0.0	0	0	0	46.3
PFE Infrastructure Costs per Land Use for Phas	e 7		-					
Water	\$	230,400	\$	-	\$ -	\$ -	\$ -	\$ 230,400
Amenities	\$	29,300	\$	-	\$ -	\$ -	\$ -	\$ 29,300
Roadway	\$	8,981,400	\$	-	\$ -	\$ -	\$ -	\$ 8,981,400
Wastewater	Ŧ	-	\$	-	\$ -	\$ -	\$ -	\$ -
Drainage	\$	-	\$	-	\$ -	\$ -	\$ -	\$ -
Trails, Landscaping and Parks	\$	-	\$	-	\$ -	\$ -	\$ -	\$ -
Subtotal for Phase 7	\$	9,241,100	\$	-	\$ -	\$ -	\$ -	\$ 9,241,10
FE Infrastructure Costs per Land Use (Based of	on De	velopable A	cres)					
Water	\$	4,976	\$	-	\$ -	\$ -	\$ -	
Amenities	\$	633	\$	-	\$ -	\$ -	\$ -	
Roadway	\$	193,983	\$	-	\$ -	\$ -	\$ -	
Wastewater	-	-	\$	-	\$ -	\$ -	\$ -	
Drainage		-	\$	-	\$ -	\$ -	\$ -	
Trails, Landscaping and Parks	\$	-	\$	-	\$ -	\$ -	\$ -	
Subtotal for Phase 7	\$	199,592	\$	-	\$ -	\$ -	\$ -	

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	VCE	VLDR	VMD	R	V	HDR	\ \	/MU		Total
Number of Units	0	0	71			0		0		71
Acres	0	0.0	8.9	)		0		0		8.9
nfrastructure Costs per Land Use for Phase 8										
Water	\$-	\$-	\$	-	\$	-	\$	-	\$	-
Amenities	\$-	\$-	\$	-	\$	-	\$	-	\$	-
Roadway	\$-	\$-	\$	-	\$	-	\$	-	\$	-
Wastewater	\$-	\$-	\$	-	\$	-	\$	-	\$	-
Drainage	\$-	\$-	\$	-	\$	-	\$	-	\$	-
Trails, Landscaping and Parks	\$-	\$-	\$ 24	43,200	\$	-	\$	-	\$	243,20
Subtotal for Phase 8	\$-	\$-	\$ 24	43,200	\$	-	\$	-	\$	243,20
frastructure Costs Per Land Use (Based on De	•	·							1	
Water	+	\$ -	\$	-	\$	-	\$	-		
Amenities	+	\$ -	\$	-	\$	-	\$	-		
	\$-	\$-	\$	-	\$	-	\$	-		
Roadway			+		\$	-	\$	-		
Wastewater	\$-	\$ -	\$	-			-			
Wastewater Drainage	\$ - \$ -	\$ -	\$	-	\$	-	\$	-		
Wastewater Drainage Trails, Landscaping and Parks	\$ - \$ - \$ -		\$ \$ 2	- 27,326	\$ \$	-	\$ \$	-		
Wastewater Drainage Trails, Landscaping and Parks Subtotal per Developable Area for Phase 8	\$ - \$ - \$ - \$ -	\$ -	\$ \$ 2 <b>\$ 2</b>	- 27,326 <b>27,326</b>	\$ \$ <b>\$</b>	-				
Wastewater Drainage Trails, Landscaping and Parks	\$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ -	\$ \$2 \$2 \$2 \$2 \$2	- 27,326	\$ \$ \$ \$	- - - -	\$	-		



	VCE		VLDR	VMDR	VHDR		VMU	Total
Number of Units	0		0	71	0		0	71
Acres	0		0.0	8.9	0		0	8.9
FE Infrastructure Costs per Land Use for Phas	e 8	·				-		
Water	\$	- \$	-	\$ -	\$ -	\$	-	\$
Amenities	\$	- \$	-	\$ -	\$ -	\$	-	\$
Roadway	\$	- \$	-	\$ -	\$ -	\$	-	\$
Wastewater	\$	- \$	-	\$ -	\$ -	\$	-	\$
Drainage		- \$	-	\$ -	\$ -	\$	-	\$
Trails, Landscaping and Parks	\$	- \$	-	\$ -	\$ -	\$	-	\$
Subtotal for Phase 8	\$	- \$	-	\$ -	\$ -	\$	-	\$
FE Infrastructure Costs per Land Use (Based of	on Developa	able Acre	es)					
Water	\$	- \$	-	\$ -	\$ -	\$	-	
Amenities	\$	- \$	-	\$ -	\$ -	\$	-	
Roadway	\$	- \$	-	\$ -	\$ -	\$	-	
Wastewater	\$	- \$	-	\$ -	\$ -	\$	-	
Drainage		- \$	-	\$ -	\$ -	\$	-	
Trails, Landscaping and Parks	\$	- \$	-	\$ -	\$ -	\$	-	
Subtotal for Phase 8	\$	- \$	-	\$ -	\$ -	\$	-	

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# Cost Summaries per Phase Consolidated (Phases 1 thru 8)





Engineer's Opinion of Costs											
Village 1: Overall Comparison with Phase 1 & 2 - Cons (Costs per Land Use Based on PFE Weighted Factor)	olidated										
(Costs per Land Ose Based on PFE weighted Factor)	VCE			VLDR		VMDR	VHDR		VMU		Total
Village 1 Number of Units	469			2090		728	 519		702		4508
Phase 1 & 2 Number of Units	204			916		0	 0		0		1120
Total Acres	102			229.1		0	0		0		331.1
Infrastructure Costs per Land Use	-	5,700	\$	23,675,100	\$	-	\$ -	\$	-	\$	30,320,800
(Owner Finance) Cost Per Acre		5,154		103,340	\$	-	\$ -	\$	-	Ŧ	,,
		,	,	,	Ť						
PFE Infrastructure Costs per Land Use	\$ 90	9,000	\$	3,265,300	\$	-	\$ -	\$	-	\$	4,174,300
(Owner Finance) Cost Per Acre	\$	8,912	\$	14,253	\$	-	\$ -	\$	-		
Total Financed Construction Costs	\$ 7,55	4,700	\$	26,940,400	\$	-	\$ -	\$	-	\$	34,495,100
(Owner Finance) Cost Per Acre	\$ 7	4,066	\$	117,592	\$	-	\$ -	\$	-		
Total Costs for Overall Village 1		0,200	\$	55,476,700	\$	14,939,400	\$ 8,835,600	\$	11,951,100	\$	106,513,000
Village 1 Total Cost Per Acre	\$6	5,372	\$	106,176	\$	164,169	\$ 306,792	\$	306,438		
PFE Credits from Collected Impact Fees		9,000)		(3,265,300)		-	\$ -	\$	-	\$	(4,174,300
PFE Credit Per Acre	\$ (	8,912)	\$	(14,253)	\$	-	\$ -	\$	-		
								-			
Additional Reimbursement from Village 1 Future Phases		4,757)		(5,667,314)		-	\$ -	\$	-	\$	(7,272,071
Additional Reimbursement Per Acre	\$ (1	5,733)	\$	(24,737)	\$	-	\$ -	\$	-		
PFE Credits from Village 1 Collected Impact Fees		5,800)		(14,407,000)		(3,785,300)	(2,422,500)		(3,276,500)	\$	(27,627,100
Village 1 PFE Credit Per Acre	\$ (1	5,951)	\$	(27,573)	\$	(41,597)	\$ (84,115)	\$	(84,013)		
Net Cost Phase 1 & 2	, ,	0,943		18,007,786	\$	-	\$ -	\$	-	\$	23,048,729
Net Cost Per Acre	\$ 4	9,421	\$	78,602	\$	-	\$ -	\$	-		
	<u> </u>										
Net Cost for Village 1		4,400		41,069,700	\$	11,154,100	6,413,100	-	8,674,600	\$	78,885,900
Net Cost Per Acre	\$ 4	9,421	\$	78,602	\$	122,573	\$ 222,677	\$	222,426		

Developable area is from the Specific Plan. EDU per Acre is as follows: VCE 2, VLDR 4, VMDR 8, VHDR 18, VMU 18 Based on Projected Units



Engineer's Opinion of Costs											
Village 1: Overall Comparison with Phase 1 - Consolidation	ted										
(Costs per Land Use Based on PFE Weighted Factor)											
	VCE		VLDR		VMDR		VHDR		VMU		Total
Village 1 Number of Units	469		2090		728		519		702		4508
Phase 1 Number of Units	28		505		0		0		0		533
Total Acres	13.8		126.3		0		0		0		140.1
Infrastructure Costs per Land Use	\$ 1,634,791	\$	23,110,909	\$	-	\$	-	\$	-	\$	24,745,700
(Owner Finance) Cost Per Acre	\$ 118,463	\$	182,984	\$	-	\$	-	\$	-		
	\$ 244,470	\$	, ,	\$	-	\$	-	\$	-	\$	3,816,200
(Owner Finance) Cost Per Acre	\$ 17,715	\$	28,280	\$	-	\$	-	\$	-		
	•										
	\$ 1,879,261	\$	26,682,639	\$	-	\$	-	\$	-	\$	28,561,900
(Owner Finance) Cost Per Acre	\$ 136,178	\$	211,264	\$	-	\$	-	\$	-		
		1		· .		· .		· ·		r .	
	\$ 15,310,200	\$	55,476,700	\$	14,939,400		8,835,600	\$	11,951,100	\$	106,513,000
Village 1 Total Cost Per Acre	\$ 65,372	\$	106,176	\$	164,169	\$	306,792	\$	306,438		
	• (- · · · ·)		( ()			•				•	/
	\$ (244,470)		(3,571,730)		-	\$	-	\$	-	\$	(3,816,200
PFE Credit Per Acre	\$ (17,715)	\$	(28,280)	\$	-	\$	-	\$	-		
	• ( ()		// - / / )			•				•	/
Additional Reimbursement from Village 1 Future Phases	\$ (952,781)		(13,183,439)		-	\$	-	\$	-	\$	(14,136,220
Additional Reimbursement Per Acre	\$ (69,042)	\$	(104,382)	\$	-	\$	-	\$	-		
	<b>•</b> (0 <b>-</b> 0 <b>-</b> 0 <b>-</b> 0 <b>-</b> 0			•	(0.202.022)		(0.100.555)	•		<b></b>	(07.007.107
	\$ (3,735,800)		(14,407,000)		(3,785,300)		(2,422,500)		(3,276,500)		(27,627,100
Village 1 PFE Credit Per Acre	\$ (15,951)	\$	(27,573)	\$	(41,597)	\$	(84,115)	\$	(84,013)		
Net Cost for Phase 1	¢ 692.040	6	0.007.470	¢		¢		¢		¢	40.600.400
	<b>682,010</b> 49.421	\$ \$	<b>9,927,470</b>	<b>ծ</b> Տ	-	\$ \$	-	\$ \$	-	\$	10,609,480
Cost Per Acre	φ <u>49,421</u>	Ф	78,602	Ф	-	Ф	-	Э	-	<u> </u>	
Net Cost for Village 1	\$ 11,574,400	\$	41,069,700	\$	11,154,100	\$	6,413,100	\$	8,674,600	\$	78,885,900
-	\$ 49,421	9 \$	78,602	<b>Գ</b> Տ	122,573	•	222,677	<b>Գ</b> Տ	222,426	Ψ	10,000,900
	ψ <del>4</del> 9,421	φ	10,002	9	122,073	φ	222,011	9	222,420		

Developable area is from the Specific Plan. EDU per Acre is as follows: VCE 2, VLDR 4, VMDR 8, VHDR 18, VMU 18 Based on Projected Units



Ilage 1: Overall Comparison with Phase 2 - Consolidated costs per Land Use Based on PFE Weighted Factor)         VCE         VIllage 1 Number of Units         VCE         VIllage 1 Number of Units         VCE         VIllage 1 Number of Units         Phase 2 Number of Units         Total Acres         88.2         irastructure Costs per Land Use         (Owner Finance) Cost Per Acre         Cost Per Acre         VIIIage 1         VIIIage 1         VIIIage 1         VIIIage 1         VIIIage 1 Total Cost Per Acre         VIIIage 1 Total Cost Per Acre		VLDR 2090 411 102.8 3,612,364		<b>VMDR</b> 728		VHDR		VMU		
VCE         Village 1 Number of Units       469         Phase 2 Number of Units       176         Total Acres       88.2         frastructure Costs per Land Use       \$ 1,962,730         (Owner Finance) Cost Per Acre       \$ 22,253         FE Infrastructure Costs per Land Use       \$ 150,873         (Owner Finance) Cost Per Acre       \$ 1,711         otal Financed Construction Costs       \$ 2,113,611         (Owner Finance) Cost Per Acre       \$ 23,964         otal Costs for Overall Village 1       \$ 15,310,200		2090 411 102.8				VHDR		VMU		
Village 1 Number of Units       469         Phase 2 Number of Units       176         Total Acres       88.2         frastructure Costs per Land Use       \$ 1,962,730         (Owner Finance) Cost Per Acre       \$ 22,255         FE Infrastructure Costs per Land Use       \$ 150,873         (Owner Finance) Cost Per Acre       \$ 150,873         (Owner Finance) Cost Per Acre       \$ 1,711         Intal Financed Construction Costs       \$ 2,113,611         (Owner Finance) Cost Per Acre       \$ 23,964         Intal Costs for Overall Village 1       \$ 15,310,200		2090 411 102.8				VHDR		VMU		
Phase 2 Number of Units 176 Phase 2 Number of Units 176 Total Acres 88.2 frastructure Costs per Land Use \$ 1,962,730 (Owner Finance) Cost Per Acre \$ 22,255 (Owner Finance) Cost Per Acre \$ 150,879 (Owner Finance) Cost Per Acre \$ 1,711 Detal Financed Construction Costs \$ 2,113,611 (Owner Finance) Cost Per Acre \$ 23,964 tal Costs for Overall Village 1 \$ 15,310,200		411 102.8		728						Total
Total Acres       88.2         frastructure Costs per Land Use       \$ 1,962,730         (Owner Finance) Cost Per Acre       \$ 22,253         FE Infrastructure Costs per Land Use       \$ 150,873         (Owner Finance) Cost Per Acre       \$ 1,711         otal Financed Construction Costs       \$ 2,113,611         (Owner Finance) Cost Per Acre       \$ 23,964         otal Costs for Overall Village 1       \$ 15,310,200		102.8				519		702		4508
irastructure Costs per Land Use       \$ 1,962,730         (Owner Finance) Cost Per Acre       \$ 22,253         if E Infrastructure Costs per Land Use       \$ 150,873         (Owner Finance) Cost Per Acre       \$ 1,711         if E Infrastructure Costs per Land Use       \$ 1,711         (Owner Finance) Cost Per Acre       \$ 2,113,611         if Costs for Overall Village 1       \$ 15,310,200				0		0		0		587
(Owner Finance) Cost Per Acre       \$ 22,25         FE Infrastructure Costs per Land Use       \$ 150,87         (Owner Finance) Cost Per Acre       \$ 1,71         otal Financed Construction Costs       \$ 2,113,61         (Owner Finance) Cost Per Acre       \$ 23,96         otal Costs for Overall Village 1       \$ 15,310,200		3,612,364		0		0		0		191
E Infrastructure Costs per Land Use       \$ 150,873         (Owner Finance) Cost Per Acre       \$ 1,713         otal Financed Construction Costs       \$ 2,113,613         (Owner Finance) Cost Per Acre       \$ 23,964         otal Costs for Overall Village 1       \$ 15,310,200	53 \$	, , -	\$	-	\$	-	\$	-	\$	5,575,100
(Owner Finance) Cost Per Acre \$ 1,71         tal Financed Construction Costs         (Owner Finance) Cost Per Acre \$ 23,96         tal Costs for Overall Village 1		35,140	\$	-	\$	-	\$	-		
(Owner Finance) Cost Per Acre \$ 1,71         tal Financed Construction Costs         (Owner Finance) Cost Per Acre \$ 23,96         tal Costs for Overall Village 1										
otal Financed Construction Costs \$ 2,113,61 (Owner Finance) Cost Per Acre \$ 23,96 otal Costs for Overall Village 1 \$ 15,310,200			\$	-	\$	-	\$	-	\$	358,100
(Owner Finance) Cost Per Acre \$ 23,96 otal Costs for Overall Village 1 \$ 15,310,200	1 \$	2,016	\$	-	\$	-	\$	-		
(Owner Finance) Cost Per Acre \$ 23,96 otal Costs for Overall Village 1 \$ 15,310,200										
tal Costs for Overall Village 1 \$ 15,310,20		, ,	\$	-	\$	-	\$	-	\$	5,933,200
	64 \$	37,156	\$	-	\$	-	\$	-		
Village 1 Tetal Cost Day Apro C 65.27	)0 \$	, -,	\$	14,939,400	\$	8,835,600	\$	11,951,100	\$	106,513,000
	72 \$	106,176	\$	164,169	\$	306,792	\$	306,438		
E Credits from Collected Impact Fees \$ (150,875)	´5) \$			-	\$	-	\$	-	\$	(358,100
PFE Credit Per Acre \$ (1,71)	1) \$	(2,016)	\$	-	\$	-	\$	-		
Iditional Reimbursement paid to Village 1 \$ 2,396,19	96 \$	4,467,953	\$	-	\$	-	\$	-	\$	6,864,149
Additional Reimbursement Per Acre \$ 27,16	68 \$	43,463	\$	-	\$	-	\$	-		
E Credits from Village 1 Collected Impact Fees \$ (3,735,800	)0) \$	(14,407,000)	\$	(3,785,300)	\$	(2,422,500)	\$	(3,276,500)	\$	(27,627,100
Village 1 PFE Credit Per Acre \$ (15,95)				(41,597)		(84,115)		(84,013)		
et Cost for Phase 2 \$ 4,358,93	33 \$	8,080,316	\$	-	\$	- 1	\$	-	\$	12,439,249
Cost Per Acre \$ 49,42		78,602	\$	-	\$	-	\$	-		<u> </u>
et Cost for Village 1 \$ 11,574,40							•		•	70.005.000
Cost Per Acre \$ 49,42	00   \$	41,069,700	\$	11,154,100	\$	6,413,100	\$	8,674,600	\$	78,885,900
Village 1 PFE Credit Per Acre         (15,95)           et Cost for Phase 2         \$ 4,358,933           Cost Per Acre         \$ 49,423	51) \$ 33 \$ 21 \$	(27,573) <b>8,080,316</b> 78,602	\$ \$	(41,597) - -	\$ \$ \$	(84,115)	\$ \$	(84,013)	\$	12,4

Developable area is from the Specific Plan. EDU per Acre is as follows: VCE 2, VLDR 4, VMDR 8, VHDR 18, VMU 18 Based on Projected Units



Engineer's Opinion of Costs												
Village 1: Overall Comparison with Phase 3 - Consolidated												
(Costs per Land Use Based on PFE Weighted Factor)												
		VCE		VLDR		VMDR		VHDR		VMU	L	Total
Village 1 Number of Units		469		2090		728		519		702		4508
Phase 3 Number of Units		0		562		136		0		196		894
Total Acres		0		140.3		17		0		10.9		168.2
Infrastructure Costs per Land Use	\$	-	\$	10,638,267	\$	2,084,659	\$	-	\$	2,274,175	\$	14,997,100
(Owner Finance) Cost Per Acre	\$	-	\$	75,825	\$	122,627	\$	-	\$	208,640		
	1											
PFE Infrastructure Costs per Land Use	\$	-	\$	5,611,901	\$	1,039,245	\$	-	\$	1,361,854	\$	8,013,000
(Owner Finance) Cost Per Acre	\$	-	\$	39,999	\$	61,132	\$	-	\$	124,941	L	
Total Financed Construction Costs	\$	-	\$	-,, -	·	3,123,904		-	\$	3,636,029	\$	23,010,100
(Owner Finance) Cost Per Acre	\$	-	\$	115,824	\$	183,759	\$	-	\$	333,581	L	
			_				•		_		-	
Total Costs for Overall Village 1	\$	15,310,200		55,476,700	\$	14,939,400		8,835,600		11,951,100	\$	106,513,000
Village 1 Total Cost Per Acre	\$	65,372	\$	106,176	\$	164,169	\$	306,792	\$	306,438	<u> </u>	
Potential PFE Reimbursement from Collected Impact Fees <sup>1</sup>	\$	-	\$	(5,611,901)		(1,039,245)		-	\$	(1,361,854)	\$	(8,013,000
PFE Credit Per Acre	\$	-	\$	(39,999)	\$	(61,132)	\$	-	\$	(124,941)	<u> </u>	
			-								-	
Additional Reimbursement paid to Village 1	\$	-	\$	389,636	\$	(926)		-	\$	150,265	\$	538,975
Additional Reimbursement Per Acre	\$	-	\$	2,777	\$	(54)	\$	-	\$	13,786	<u> </u>	
	•	(0.705.000)	•	(4.4.407.000)	•	(0.705.000)	•	(0.400.500)	•	(0.070.500)		(07.007.400
PFE Cash Reserve from Collected Impact Fees	\$ \$	(3,735,800)		(14,407,000)		(3,785,300)		(2,422,500)		(3,276,500)		(27,627,100
Village 1 PFE Credit Per Acre	φ	(15,951)	Ф	(27,573)	Ф	(41,597)	φ	(84,115)	Ф	(84,013)	_	
Net Cost for Phase 3	\$	-	\$	11,027,902	\$	2,083,733	\$	-	\$	2,424,439	\$	15,536,075
Cost Per Acre			\$ \$	78,602	·	122,573	•	-	\$ \$	222,426	Ψ	10,000,070
	Ψ		Ψ	10,002	Ψ	122,010	Ψ		Ψ	222,720	_	
Net Cost for Village 1	\$	11,574,400	\$	41,069,700	\$	11,154,100	\$	6,413,100	\$	8,674,600	\$	78,885,900

Developable area is from the Specific Plan. EDU per Acre is as follows: VCE 2, VLDR 4, VMDR 8, VHDR 18, VMU 18 Based on Projected Units



Costs per Land Use Based on PFE Weighted Factor) Village 1 Number of Units Phase 4 Number of Units Total Acres		VCE 469 114		VLDR		VMDR						
Phase 4 Number of Units Total Acres		469										,
Phase 4 Number of Units Total Acres								VHDR		VMU		Total
Total Acres		114		2090		728		519		702		4508
				29		187		157		184		671
ofrastructure Costs per Land Use		57		7.3		23.4		8.7		10.2		106.6
	\$	_,	\$	509,917	\$	2,556,797		1,786,460	\$	2,093,686	\$	9,401,100
(Owner Finance) Cost Per Acre	\$	43,057	\$	69,852	\$	109,265	\$	205,340	\$	205,263		
PFE Infrastructure Costs per Land Use	\$	1,194,156	\$	212,916	\$	1,056,789	\$	531,147	\$	622,491	\$	3,617,500
(Owner Finance) Cost Per Acre		20,950		29,167	\$	45,162		61,051		61,029	<b>T</b>	
			,	-,		-,		- ,	,			
otal Financed Construction Costs	\$	3,648,397	\$	722,833	\$	3,613,586	\$	2,317,607	\$	2,716,177	\$	13,018,600
(Owner Finance) Cost Per Acre	\$	64,007	\$	99,018	\$	154,427	\$	266,392	\$	266,292		· · · · · · · · · · · · · · · · · · ·
otal Costs for Overall Village 1	\$	15,310,200	\$	55,476,700	\$	14,939,400	\$	8,835,600	\$	11,951,100	\$	106,513,000
Village 1 Total Cost Per Acre	\$	65,372	\$	106,176	\$	164,169	\$	306,792	\$	306,438		
Potential PFE Reimbursement from Collected Impact Fees <sup>1</sup>	\$	(1,194,156)	\$	(212,916)	\$	(1,056,789)	\$	(531,147)	\$	(622,491)	\$	(3,617,500
PFE Credit Per Acre	\$	(20,950)	\$	(29,167)	\$	(45,162)	\$	(61,051)	\$	(61,029)		-
					-							
Additional Reimbursement paid to Village 1	\$	362,757	\$	63,880	\$	311,401	\$	150,831	\$	175,056	\$	1,063,924
Additional Reimbursement Per Acre	\$	6,364	\$	8,751	\$	13,308	\$	17,337	\$	17,162		
PFE Cash Reserve from Collected Impact Fees	\$	(3,735,800)		(14,407,000)		(3,785,300)		(2,422,500)		(3,276,500)	\$	(27,627,100
Village 1 PFE Credit Per Acre	\$	(15,951)	\$	(27,573)	\$	(41,597)	\$	(84,115)	\$	(84,013)		
let Cost for Phase 4	\$	2,816,997	¢	573,797	\$	2,868,197	¢	1,937,291	\$	2,268,742	\$	10,465,024
Cost Per Acre	•	, ,	<b>թ</b> \$	78,602	<b>ب</b> \$	122,573	•	222,677	<b>թ</b> \$	2,200,742	φ	10,403,024
	φ	43,421	φ	70,002	φ	122,575	Ψ	222,011	φ	222,420		
let Cost for Village 1	\$	11,574,400	\$	41,069,700	\$	11,154,100	\$	6,413,100	\$	8,674,600	\$	78,885,900
Cost Per Acre	•		\$	78,602	\$	122,573		222,677	\$	222,426	Ţ.	

Developable area is from the Specific Plan. EDU per Acre is as follows: VCE 2, VLDR 4, VMDR 8, VHDR 18, VMU 18 Based on Projected Units



Engineer's Opinion of Costs Village 1: Overall Comparison with Phase 5 - Consolidated												
(Costs per Land Use Based on PFE Weighted Factor)												
· · · · · · · · · · · · · · · · · · ·		VCE		VLDR		VMDR		VHDR		VMU		Total
Village 1 Number of Units		469		2090		728		519		702		4508
Phase 5 Number of Units		40		128		229		362		158		917
Total Acres		19.8		32.1		28.6		20.1		8.8		109.4
Infrastructure Costs per Land Use	\$	669,661	\$	1,786,892	\$	2,472,888	\$	3,169,073	\$	1,383,186	\$	9,481,700
(Owner Finance) Cost Per Acre	\$	33,821	\$	55,666	\$	86,465	\$	157,665	\$	157,180		
PFE Infrastructure Costs per Land Use	\$	145,973	¢	467,115	\$	601,702	¢	951,162	\$	415,148	\$	2,581,100
(Owner Finance) Cost Per Acre		7,372		14,552	\$	21,039		47,321	\$	47,176	Ψ	2,001,100
	Ψ	1,012	Ψ	17,002	Ψ	21,000	Ψ	-1,021	Ψ	-1,110		
Total Financed Construction Costs	\$	815,635	\$	2,254,006	\$	3,074,590	\$	4,120,235	\$	1,798,334	\$	12,062,800
(Owner Finance) Cost Per Acre	\$	41,194	\$	70,218	\$	107,503	\$	204,987	\$	204,356		
	1						1					
Total Costs for Overall Village 1	\$	15,310,200		55,476,700	\$	14,939,400		8,835,600		11,951,100	\$	106,513,000
Village 1 Total Cost Per Acre	\$	65,372	\$	106,176	\$	164,169	\$	306,792	\$	306,438		
Potential PFE Reimbursement from Collected Impact Fees <sup>1</sup>	\$	(145,973)	¢	(467,115)	\$	(601,702)	¢	(951,162)	¢	(415,148)	\$	(2,581,100
Potential FFE Reinbursement nom conected impact rees PFE Credit Per Acre		(7,372)		(14,552)		(21,039)		(47,321)		(415,146)	φ	(2,561,100
	φ	(1,312)	φ	(14,332)	φ	(21,039)	φ	(47,321)	φ	(47,170)		
Additional Reimbursement paid to Village 1	\$	308,875	\$	736,242	\$	1,032,686	\$	1,306,737	\$	574,159	\$	3,958,699
Additional Reimbursement Per Acre	\$	15,600	\$	22,936	\$	36,108	\$	65,012	\$	65,245		
	•	(0.705.000)	•	(1.1.107.000)	•	(0.705.000)	•	(0. (00. 500)	<b>^</b>	(0.070.500)	•	(07.007.400
PFE Cash Reserve from Collected Impact Fees Village 1 PFE Credit Per Acre	\$	(3,735,800)		(14,407,000)		(3,785,300)		(2,422,500)		(3,276,500)	\$	(27,627,100
Village 1 PFE Credit Per Acre	\$	(15,951)	\$	(27,573)	\$	(41,597)	\$	(84,115)	\$	(84,013)		
Net Cost for Phase 5	\$	978,536	\$	2,523,134	\$	3,505,574	\$	4,475,809	\$	1,957,346	\$	13,440,399
Cost Per Acre	\$	49,421	\$	78,602	\$	122,573	\$	222,677	\$	222,426		
			•	44.000 700	•		•	0.440.400	•	0.074.000	•	70.005.005
Net Cost for Village 1	\$	11,574,400		41,069,700	\$	11,154,100		6,413,100		8,674,600	\$	78,885,900
Cost Per Acre	\$	49,421	\$	78,602	\$	122,573	\$	222,677	\$	222,426		

Developable area is from the Specific Plan. EDU per Acre is as follows: VCE 2, VLDR 4, VMDR 8, VHDR 18, VMU 18 Based on Projected Units



Engineer's Opinion of Costs										
Village 1: Overall Comparison with Phase 6 - Consolidated (Costs per Land Use Based on PFE Weighted Factor)										
(Costs per Land Ose Based on FFE weighted Factor)	1	VCE	VLDR		VMDR		VHDR	VMU		Total
Village 1 Number of Units		469	2090		728		519	702		4508
Phase 6 Number of Units		18	455		105		0	164		742
Total Acres		9.1	113.7		13.1		0	9.1		145
Infrastructure Costs per Land Use	\$	145,117	\$ 2,939,371	\$	534,533	\$	-	\$ 679,579	\$	4,298,600
(Owner Finance) Cost Per Acre	\$	,	\$ 25,852	\$	40,804	\$	-	\$ 74,679		
			•			· ·		•		
PFE Infrastructure Costs per Land Use	\$	-	\$ -	\$	-	\$	-	\$ -	\$	-
(Owner Finance) Cost Per Acre	\$	-	\$ -	\$	-	\$	-	\$ -		
Total Financed Construction Costs	\$	145,117	2,939,371	\$	534,533		-	\$ 679,579	\$	4,298,600
(Owner Finance) Cost Per Acre	\$	15,947	\$ 25,852	\$	40,804	\$	-	\$ 74,679	-	
Total Costs for Overall Village 1	\$	15,310,200	55,476,700	\$	14,939,400		8,835,600	\$ 11,951,100	\$	106,513,000
Village 1 Total Cost Per Acre	\$	65,372	\$ 106,176	\$	164,169	\$	306,792	\$ 306,438		
	1			1		1				
Potential PFE Reimbursement from Collected Impact Fees <sup>1</sup>	\$	-	\$ -	\$	-	\$	-	\$ -	\$	-
PFE Credit Per Acre	\$	-	\$ -	\$	-	\$	-	\$ -		
Additional Reimbursement paid to Village 1	\$	304,614	5,997,710	\$	1,071,167	\$	-	\$ 1,344,495	\$	8,717,986
Additional Reimbursement Per Acre	\$	33,474	\$ 52,750	\$	81,768	\$	-	\$ 147,747		
PFE Cash Reserve from Collected Impact Fees	\$	(3,735,800)	(14,407,000)		(3,785,300)		(2,422,500)	(3,276,500)	\$	(27,627,100
Village 1 PFE Credit Per Acre	\$	(15,951)	\$ (27,573)	\$	(41,597)	\$	(84,115)	\$ (84,013)		
	<b>1</b>									
Net Cost for Phase 6	\$	449,731	 8,937,081	\$	1,605,700	•	-	\$ 2,024,073	\$	13,016,586
Cost Per Acre	\$	49,421	\$ 78,602	\$	122,573	\$	-	\$ 222,426		
				-					-	
Net Cost for Village 1	\$	11,574,400	41,069,700	\$	11,154,100		6,413,100	\$ 8,674,600	\$	78,885,900
Cost Per Acre	\$	49,421	\$ 78,602	\$	122,573	\$	222,677	\$ 222,426		

Developable area is from the Specific Plan. EDU per Acre is as follows: VCE 2, VLDR 4, VMDR 8, VHDR 18, VMU 18 Based on Projected Units



Engineer's Opinion of Costs												
Village 1: Overall Comparison with Phase 7 - Consolidated												
(Costs per Land Use Based on PFE Weighted Factor)	1	VCE				VMDD		VUDD				Tetal
				VLDR		VMDR		VHDR		VMU		Total
Village 1 Number of Units		469		2090		728		519		702		4508
Phase 7 Number of Units		93		0		0		0		0		93
Total Acres		46.3		0		0		0		0		46.3
Infrastructure Costs per Land Use	\$	10,143,500		-	\$	-	\$	-	\$	-	\$	10,143,500
(Owner Finance) Cost Per Acre	\$	219,082	\$	-	\$	-	\$	-	\$	-		
PFE Infrastructure Costs per Land Use	\$	9,241,100	\$	_	\$	-	\$	_	\$	-	\$	9,241,100
(Owner Finance) Cost Per Acre		199,592		-	\$	-	\$	-	\$	-	Ψ	0,211,100
Total Financed Construction Costs	\$	19,384,600	\$	-	\$	-	\$	-	\$	-	\$	19,384,600
(Owner Finance) Cost Per Acre	\$	418,674	\$	-	\$	-	\$	-	\$	-		
Total Costs for Overall Village 1	\$	15,310,200	\$	55,476,700	\$	14,939,400	\$	8,835,600	\$	11,951,100	\$	106,513,000
Village 1 Total Cost Per Acre	\$	65,372	\$	106,176	\$	164,169	\$	306,792	\$	306,438		
	T		<b>r</b>		ſ				r			
Potential PFE Reimbursement from Collected Impact Fees <sup>1</sup>	\$	(9,241,100)	\$	-	\$	-	\$	-	\$	-	\$	(9,241,100
PFE Credit Per Acre	\$	(199,592)	\$	-	\$	-	\$	-	\$	-		
Additional Reimbursement from Village 1	\$	(7,855,307)		-	\$	-	\$	-	\$	-	\$	(7,855,307
Additional Reimbursement Per Acre	\$	(169,661)	\$	-	\$	-	\$	-	\$	-		
PFE Cash Reserve from Collected Impact Fees	\$	(3,735,800)		(14,407,000)		(3,785,300)		(2,422,500)		(3,276,500)	\$	(27,627,100
Village 1 PFE Credit Per Acre	\$	(15,951)	\$	(27,573)	\$	(41,597)	\$	(84,115)	\$	(84,013)		
Net Cost for Phase 7	\$	2,288,193	\$	-	\$		\$	-	\$	-	\$	2,288,193
Cost Per Acre	•	, ,	₽ \$	-	<b>₽</b> \$	-	₽ \$		₽ \$	-	Ψ	2,200,130
	Ψ	-10,-121	Ψ		Ψ		Ψ		Ψ			
Net Cost for Village 1	\$	11,574,400	\$	41,069,700	\$	11,154,100	\$	6,413,100	\$	8,674,600	\$	78,885,900
Cost Per Acre	•		\$	78,602	\$	122,573	\$	222,677		222,426		-,,-
		-,		-,		, - · •		,		, =-		

Developable area is from the Specific Plan. EDU per Acre is as follows: VCE 2, VLDR 4, VMDR 8, VHDR 18, VMU 18 Based on Projected Units



Engineer's Opinion of Costs												
Village 1: Overall Comparison with Phase 8 - Consolidated												
(Costs per Land Use Based on PFE Weighted Factor)												
		VCE		VLDR		VMDR		VHDR		VMU		Total
Village 1 Number of Units		469		2090		728		519		702		4508
Phase 8 Number of Units		0		0		71		0		0		71
Total Acres		0		0		8.9		0		0		8.9
Infrastructure Costs per Land Use	\$	-	\$	-	\$	243,200	\$	-	\$	-	\$	243,20
(Owner Finance) Cost Per Acre	\$	-	\$	-	\$	27,326	\$	-	\$	-		
PEE Infractructure Caste per Land Lice	\$		¢		¢		\$		¢		\$	
PFE Infrastructure Costs per Land Use (Owner Finance) Cost Per Acre	•	-	\$ \$	-	\$ \$	-	Դ \$	-	\$ \$	-	φ	-
	Ψ	-	φ	-	φ	-	φ	-	φ	-		
Total Financed Construction Costs	\$	-	\$	-	\$	243,200	\$	-	\$	-	\$	243,200
(Owner Finance) Cost Per Acre	\$	-	\$	-	\$	27,326	\$	-	\$	-		,
						· · · · · · · · · · · · · · · · · · ·	ļ					
Total Costs for Overall Village 1	\$	15,310,200	\$	55,476,700	\$	14,939,400	\$	8,835,600	\$	11,951,100	\$	106,513,000
Village 1 Total Cost Per Acre	\$	65,372	\$	106,176	\$	164,169	\$	306,792	\$	306,438		
	1				1		1		1			
Potential PFE Reimbursement from Collected Impact Fees <sup>1</sup>	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-
PFE Credit Per Acre	\$	-	\$	-	\$	-	\$	-	\$	-		
	1				1		1		1			
Additional Reimbursement paid to Village 1	\$	-	\$	-	\$	847,695	\$	-	\$	-	\$	847,695
Additional Reimbursement Per Acre	\$	-	\$	-	\$	95,247	\$	-	\$	-		
PFE Cash Reserve from Collected Impact Fees	\$	(3,735,800)	¢	(14,407,000)	¢	(3,785,300)	¢	(2,422,500)	¢	(3,276,500)	¢	(27,627,100
Village 1 PFE Credit Per Acre		(15,951)		(14,407,000) (27,573)		(41,597)		(84,115)		(84,013)	φ	(27,027,100
	Ψ	(10,001)	Ψ	(21,010)	Ψ	(41,007)	Ψ	(0-,110)	Ψ	(04,010)		
Net Cost for Phase 8	\$	-	\$	-	\$	1,090,895	\$	-	\$	-	\$	1,090,89
Cost Per Acre	\$	-	\$	-	\$	122,573	\$	-	\$	-		· · · ·
					_				_			
Net Cost for Village 1	\$	11,574,400	- ·	41,069,700	\$	11,154,100	\$	6,413,100		8,674,600	\$	78,885,900
Cost Per Acre	\$	49,421	\$	78,602	\$	122,573	\$	222,677	\$	222,426		

Developable area is from the Specific Plan. EDU per Acre is as follows: VCE 2, VLDR 4, VMDR 8, VHDR 18, VMU 18 Based on Projected Units

# APPENDIX 13 Lincoln Village 1 Specific Plan Infrastructure Finance Plan Water PFE Costs



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G	DESIGN GRO	UP

## Engineer's Opinion of Costs Village 1 - Backbone Water

Item #	Description	Unit	Quantity	Unit Price	Amount
Water	<sup>-</sup> System				
1	12" Water Line	LF	0	\$70	\$0
2	16" Water Line	LF	0	\$85	\$0
3	18" Water Line	LF	7,145	\$100	\$714,500
4	16" Water Line (Required Improvement)	LF	7,145	-\$85	-\$607,300
5	24" Water Line across Auburn Ravine Bridge *	LF	0	\$200	\$0
6	16" Water Line across Auburn Ravine Bridge * (Required Improvement)	LF	0	-\$135	\$0
7	24" Water Line	LF	200	\$150	\$30,000
8	16" Water Line (Required Improvement)	LF	200	-\$85	-\$17,000
9	30" Water Line	LF	2,840	\$175	\$497,100
10	16" Water Line (Required Improvement)	LF	2,840	-\$85	-\$241,500
11	12" Water Valve	EA	0	\$3,000	\$0
12	16" Water Valve	EA	0	\$6,500	\$0
13	18" Water Valve	EA	15	\$8,500	\$127,500
14	16" Water Valve (Required Improvement)	EA	15	-\$6,500	-\$97,500
15	24" Water Valve	EA	0	\$30,000	\$0
16	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$0
17	30" Water Valve	EA	3	\$35,000	\$105,000
18	16" Water Valve (Required Improvement)	EA	5	-\$6,500	-\$32,500
19	Pressure Reducing Valve	EA	0	\$75,000	\$0
20	Air Release Valve	EA	0	\$3,000	\$0
21	Fire Hydrant w/Tee & Valves (FH / 500')	EA	0	\$6,000	\$0
22	Bore and Jack (Across Auburn Ravine)**	EA	0	\$700	\$0
23	Flex Joints on Auburn Ravine Bridge (24" Water)	EA	0	\$50,000	\$0
24	Flex Joints on Auburn Ravine Bridge (16" Water) (Required Improvement)	EA	0	-\$34,000	\$0
25	Demolish and Remove Existing 20" Water	LF	0	\$20	\$0
26	Transmission Main Tank Connection	LS	0	\$22,000	\$(
27	Transmission Main Connection	LS	0	\$10,000	\$(
I	Construction Total:		. <u> </u>		\$478,300

#### Contingency Based upon Hard Costs (15%): \$71,800

Soft Costs Contingency (17%): \$81,300

> \$631,400 **TOTAL WATER SYSTEM**

\* Assumes that water will be completed in conjunction with the sewer bore and jack.

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	t Phase 1 Summary	11-11	Quantity		A
tem #	Description	Unit	Quantity	Unit Price	Amount
			I		
Water S	bystem				
1	12" Water Line	LF	0	\$70	¢,
2	16" Water Line	LF	0	\$85	¢,
3	18" Water Line	LF	7,145	\$100	\$714,50
4	16" Water Line (Required Improvement)	LF	7,145	-\$85	-\$607,30
5	24" Water Line across Auburn Ravine Bridge *	LF	0	\$200	¢,
	16" Water Line across Auburn Ravine Bridge *	LF		6405	بر د
6	(Required Improvement)		0	-\$135	
7	24" Water Line	LF	200	\$150	\$30,00
8	16" Water Line (Required Improvement)	LF	200	-\$85	-\$17,0
9	30" Water Line		1,710	\$175	\$299,30
10	16" Water Line (Required Improvement)	LF	1,710	-\$85	-\$145,40
11	12" Water Valve	EA	0	\$3,000	
12	16" Water Valve	EA	0	\$6,500	
13	18" Water Valve	EA	15	\$8,500	\$127,50
14	16" Water Valve (Required Improvement)	EA	15	-\$6,500	-\$97,5
15	24" Water Valve	EA	0	\$30,000	
16	16" Water Valve (Required Improvement)	EA	0	-\$6,500	
17	30" Water Valve	EA	2	\$35,000	\$70,00
18	16" Water Valve (Required Improvement)	EA	3	-\$6,500	-\$19,50
19	Pressure Reducing Valve	EA	0	\$75,000	
20	Air Release Valve	EA	0	\$3,000	5
21	Fire Hydrant w/Tee & Valves (FH / 500')	EA	0	\$6,000	!
22	Bore and Jack (Across Auburn Ravine)**	EA	0	\$700	1
23	Flex Joints on Auburn Ravine Bridge (24" Water)	EA	0	\$50,000	
24	Flex Joints on Auburn Ravine Bridge (16" Water) (Required Improvement)	EA	0	-\$34,000	:
25	Demolish and Remove Existing 20" Water	LF	0	\$20	
26	Transmission Main Tank Connection	LS	0	\$22,000	
27	Transmission Main Connection	LS	0	\$10,000	

## Contingency Based upon Hard Costs (15%): \$53,200

Soft Costs Contingency (17%): \$60,300

TOTAL WATER SYSTEM \$468,100

\* Assumes that water will be completed in conjunction with the sewer bore and jack.

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B	DESIGN GRO	UP

	r's Opinion of Costs - Backbone Water				
-	dit Phase 1 Oak Tree Lane 5 (V1W2)				
Item #	Description	Unit	Quantity	Unit Price	Amount
Water	System				
1	12" Water Line	LF	0	\$70	
2	16" Water Line	LF	0	\$85	
3	18" Water Line	LF	0	\$100	
4	16" Water Line (Required Improvement)	LF	0	-\$85	, , , , , , , , , , , , , , , , , , ,
5	24" Water Line across Auburn Ravine Bridge *	LF	0	\$200	
6	16" Water Line across Auburn Ravine Bridge * (Required Improvement)	LF	0	-\$135	
7	24" Water Line	LF	0	\$150	9
8	16" Water Line (Required Improvement)	LF	0	-\$85	
9	30" Water Line	LF	500	\$175	\$87,50
10	16" Water Line (Required Improvement)	LF	500	-\$85	-\$42,50
11	12" Water Valve	EA	0	\$3,000	
12	16" Water Valve	EA	0	\$6,500	
13	18" Water Valve	EA	0	\$8,500	
14	16" Water Valve (Required Improvement)	EA	0	-\$6,500	
15	24" Water Valve	EA	0	\$30,000	
16	16" Water Valve (Required Improvement)	EA	0	-\$6,500	
17	30" Water Valve	EA	1	\$35,000	\$35,0
18	16" Water Valve (Required Improvement)	EA	1	-\$6,500	-\$6,5
19	Pressure Reducing Valve	EA	0	\$75,000	
20	Air Release Valve	EA	0	\$3,000	
21	Fire Hydrant w/Tee & Valves (FH / 500')	EA	0	\$6,000	
22	Bore and Jack (Across Auburn Ravine)**	EA	0	\$700	
23	Flex Joints on Auburn Ravine Bridge (24" Water)	EA	0	\$50,000	
24	Flex Joints on Auburn Ravine Bridge (16" Water) (Required Improvement)	EA	0	-\$34,000	
25	Demolish and Remove Existing 20" Water	LF	0	\$20	
26	Transmission Main Tank Connection	LS	0	\$22,000	
27	Transmission Main Connection	LS	0	\$10,000	
	Construction Total:		-		\$73,5

#### Contingency Based upon Hard Costs (15%): \$11,000

Soft Costs Contingency (17%): \$12,500

### TOTAL WATER SYSTEM \$97,000

\* Assumes that water will be completed in conjunction with the sewer bore and jack.

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/illage 1 -	s Opinion of Costs Backbone Water				
PFE Credi	t Phase 1 Oak Tree Lane 7 (V1W2) Description	Unit	Quantity	Unit Price	Amount
		•			
Water S	System				
1	12" Water Line	LF	0	\$70	
2	16" Water Line	LF	0	\$85	
3	18" Water Line	LF	0	\$100	
4	16" Water Line (Required Improvement)	LF	0	-\$85	
5	24" Water Line across Auburn Ravine Bridge *	LF	0	\$200	
6	16" Water Line across Auburn Ravine Bridge * (Required Improvement)	LF	0	-\$135	
7	24" Water Line	LF	0	\$150	
8	16" Water Line (Required Improvement)	LF	0	-\$85	
9	30" Water Line	LF	210	\$175	\$36,8
10	16" Water Line (Required Improvement)	LF	210	-\$85	-\$17,9
11	12" Water Valve	EA	0	\$3,000	
12	16" Water Valve	EA	0	\$6,500	
13	18" Water Valve	EA	0	\$8,500	
14	16" Water Valve (Required Improvement)	EA	0	-\$6,500	
15	24" Water Valve	EA	0	\$30,000	
16	16" Water Valve (Required Improvement)	EA	0	-\$6,500	
17	30" Water Valve	EA	0	\$35,000	
18	16" Water Valve (Required Improvement)	EA	0	-\$6,500	
19	Pressure Reducing Valve	EA	0	\$75,000	
20	Air Release Valve	EA	0	\$3,000	
21	Fire Hydrant w/Tee & Valves (FH / 500')	EA	0	\$6,000	
22	Bore and Jack (Across Auburn Ravine)**	EA	0	\$700	
23	Flex Joints on Auburn Ravine Bridge (24" Water)	EA	0	\$50,000	
24	Flex Joints on Auburn Ravine Bridge (16" Water) (Required Improvement)	EA	0	-\$34,000	
25	Demolish and Remove Existing 20" Water	LF	0	\$20	
26	Transmission Main Tank Connection	LS	0	\$22,000	
27	Transmission Main Connection	LS	0	\$10,000	
• <b>•</b> •	Construction Total:				\$18,9

#### Contingency Based upon Hard Costs (15%): \$2,800

Soft Costs Contingency (17%): \$3,200

### TOTAL WATER SYSTEM \$24,900

\* Assumes that water will be completed in conjunction with the sewer bore and jack.

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Village 1	's Opinion of Costs - Backbone Water				
	dit Phase 1 Oak Tree Lane 8 (V1W3)				
Item #	Description	Unit	Quantity	Unit Price	Amount
Water	System				
1	12" Water Line	LF	0	\$70	\$(
2	16" Water Line	LF	0	\$85	\$(
3	18" Water Line	LF	0	\$100	\$(
4	16" Water Line (Required Improvement)	LF	0	-\$85	\$(
5	24" Water Line across Auburn Ravine Bridge *	LF	0	\$200	\$(
6	16" Water Line across Auburn Ravine Bridge * (Required Improvement)	LF	0	-\$135	\$0
7	24" Water Line	LF	0	\$150	\$(
8	16" Water Line (Required Improvement)	LF	0	-\$85	\$(
9	30" Water Line	LF	1,000	\$175	\$175,00
10	16" Water Line (Required Improvement)	LF	1,000	-\$85	-\$85,00
11	12" Water Valve	EA	0	\$3,000	\$(
12	16" Water Valve	EA	0	\$6,500	\$(
13	18" Water Valve	EA	0	\$8,500	\$(
14	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$
15	24" Water Valve	EA	0	\$30,000	\$
16	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$
17	30" Water Valve	EA	1	\$35,000	\$35,00
18	16" Water Valve (Required Improvement)	EA	2	-\$6,500	-\$13,00
19	Pressure Reducing Valve	EA	0	\$75,000	\$
20	Air Release Valve	EA	0	\$3,000	\$
21	Fire Hydrant w/Tee & Valves (FH / 500')	EA	0	\$6,000	\$
22	Bore and Jack (Across Auburn Ravine)**	EA	0	\$700	\$(
23	Flex Joints on Auburn Ravine Bridge (24" Water)	EA	0	\$50,000	Ş
24	Flex Joints on Auburn Ravine Bridge (16" Water) (Required Improvement)	EA	0	-\$34,000	Şi
25	Demolish and Remove Existing 20" Water	LF	0	\$20	\$1
26	Transmission Main Tank Connection	LS	0	\$22,000	\$
27	Transmission Main Connection	LS	0	\$10,000	\$
	Construction Total:				\$112,00

#### Contingency Based upon Hard Costs (15%): \$16,900

Soft Costs Contingency (17%): \$19,100

### TOTAL WATER SYSTEM \$148,000

\* Assumes that water will be completed in conjunction with the sewer bore and jack.

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B	DESIGN GRO	UP

Village 1 -	s Opinion of Costs Backbone Water				
PFE Credi Item #	t Phase 1 Oak Tree Lane 9 (V1W4-5) Description	Unit	Quantity	Unit Price	Amount
	Description	Unit	Quantity	Unit Frice	Amount
Water S	System			I	
	, joioin		1		
1	12" Water Line	LF	0	\$70	(
2	16" Water Line	LF	0	\$85	(
3	18" Water Line	LF	2,660	\$100	\$266,00
4	16" Water Line (Required Improvement)	LF	2,660	-\$85	-\$226,10
5	24" Water Line across Auburn Ravine Bridge *	LF	0	\$200	+
6	16" Water Line across Auburn Ravine Bridge * (Required Improvement)	LF	0	-\$135	
7	24" Water Line	LF	200	\$150	\$30,00
8	16" Water Line (Required Improvement)	LF	200	-\$85	-\$17,00
9	30" Water Line	LF	0	\$175	. ,
10	16" Water Line (Required Improvement)	LF	0	-\$85	
11	12" Water Valve	EA	0	\$3,000	
12	16" Water Valve	EA	0	\$6,500	
13	18" Water Valve	EA	5	\$8,500	\$42,50
14	16" Water Valve (Required Improvement)	EA	5	-\$6,500	-\$32,5
15	24" Water Valve	EA	0	\$30,000	
16	16" Water Valve (Required Improvement)	EA	0	-\$6,500	
17	30" Water Valve	EA	0	\$35,000	
18	16" Water Valve (Required Improvement)	EA	0	-\$6,500	
19	Pressure Reducing Valve	EA	0	\$75,000	
20	Air Release Valve	EA	0	\$3,000	
21	Fire Hydrant w/Tee & Valves (FH / 500')	EA	0	\$6,000	
22	Bore and Jack (Across Auburn Ravine)**	EA	0	\$700	
23	Flex Joints on Auburn Ravine Bridge (24" Water)	EA	0	\$50 <i>,</i> 000	
24	Flex Joints on Auburn Ravine Bridge (16" Water) (Required Improvement)	EA	0	-\$34,000	
25	Demolish and Remove Existing 20" Water	LF	0	\$20	
26	Transmission Main Tank Connection	LS	0	\$22,000	
27	Transmission Main Connection	LS	0	\$10,000	5
-	Construction Total:				\$62,9

#### Contingency Based upon Hard Costs (15%): \$9,400

Soft Costs Contingency (17%): \$10,700

#### TOTAL WATER SYSTEM \$83,000

\* Assumes that water will be completed in conjunction with the sewer bore and jack.

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B	DESIGN GRO	UP

/illage 1 -	s Opinion of Costs Backbone Water				
PFE Credi	it Phase 1 State Route 193 1 (V1W10) Description	Unit	Quantity	Unit Price	Amount
	Docomption	01111	quantity		/ unount
Water S	System				
	•				
1	12" Water Line	LF	0	\$70	\$
2	16" Water Line	LF	0	\$85	ć
3	18" Water Line	LF	830	\$100	\$83,00
4	16" Water Line (Required Improvement)	LF	830	-\$85	-\$70,50
5	24" Water Line across Auburn Ravine Bridge *	LF	0	\$200	<u> </u>
6	16" Water Line across Auburn Ravine Bridge * (Required Improvement)	LF	0	-\$135	ç
7	24" Water Line	LF	0	\$150	
8	16" Water Line (Required Improvement)	LF	0	-\$85	ç
9	30" Water Line	LF	0	\$175	
10	16" Water Line (Required Improvement)	LF	0	-\$85	
11	12" Water Valve	EA	0	\$3,000	
12	16" Water Valve	EA	0	\$6,500	
13	18" Water Valve	EA	2	\$8,500	\$17,00
14	16" Water Valve (Required Improvement)	EA	2	-\$6,500	-\$13,00
15	24" Water Valve	EA	0	\$30,000	
16	16" Water Valve (Required Improvement)	EA	0	-\$6,500	<u>,</u>
17	30" Water Valve	EA	0	\$35,000	<u>,</u>
18	16" Water Valve (Required Improvement)	EA	0	-\$6,500	( )
19	Pressure Reducing Valve	EA	0	\$75,000	
20	Air Release Valve	EA	0	\$3,000	ç
21	Fire Hydrant w/Tee & Valves (FH / 500')	EA	0	\$6,000	ç
22	Bore and Jack (Across Auburn Ravine)**	EA	0	\$700	ć
23	Flex Joints on Auburn Ravine Bridge (24" Water)	EA	0	\$50,000	
24	Flex Joints on Auburn Ravine Bridge (16" Water) (Required Improvement)	EA	0	-\$34,000	S
25	Demolish and Remove Existing 20" Water	LF	0	\$20	(
26	Transmission Main Tank Connection	LS	0	\$22,000	
27	Transmission Main Connection	LS	0	\$10,000	
· · · ·	Construction Total:				\$16,5

Contingency Based upon Hard Costs (15%): \$2,500

Soft Costs Contingency (17%): \$2,800

> TOTAL WATER SYSTEM \$21,800

\* Assumes that water will be completed in conjunction with the sewer bore and jack.

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B	DESIGN GRO	UP

Village 1 -	s Opinion of Costs Backbone Water it Phase 1 State Route 193 2 (V1W10)				
Item #	Description	Unit	Quantity	Unit Price	Amount
			<b>4</b>		
Water S	System				
1	12" Water Line	LF	0	\$70	\$
2	16" Water Line	LF	0	\$85	ć
3	18" Water Line	LF	1,340	\$100	\$134,00
4	16" Water Line (Required Improvement)	LF	1,340	-\$85	-\$113,90
5	24" Water Line across Auburn Ravine Bridge *	LF	0	\$200	<u> </u>
6	16" Water Line across Auburn Ravine Bridge * (Required Improvement)	LF	0	-\$135	ç
7	24" Water Line	LF	0	\$150	ç
8	16" Water Line (Required Improvement)	LF	0	-\$85	ç
9	30" Water Line	LF	0	\$175	Ş
10	16" Water Line (Required Improvement)	LF	0	-\$85	Ś
11	12" Water Valve	EA	0	\$3,000	ç
12	16" Water Valve	EA	0	\$6,500	ç
13	18" Water Valve	EA	3	\$8,500	\$25,50
14	16" Water Valve (Required Improvement)	EA	3	-\$6,500	-\$19,50
15	24" Water Valve	EA	0	\$30,000	ç
16	16" Water Valve (Required Improvement)	EA	0	-\$6,500	ç
17	30" Water Valve	EA	0	\$35,000	ç
18	16" Water Valve (Required Improvement)	EA	0	-\$6,500	ç
19	Pressure Reducing Valve	EA	0	\$75,000	ç
20	Air Release Valve	EA	0	\$3,000	ç
21	Fire Hydrant w/Tee & Valves (FH / 500')	EA	0	\$6,000	ç
22	Bore and Jack (Across Auburn Ravine)**	EA	0	\$700	ç
23	Flex Joints on Auburn Ravine Bridge (24" Water)	EA	0	\$50,000	ç
24	Flex Joints on Auburn Ravine Bridge (16" Water) (Required Improvement)	EA	0	-\$34,000	ć
25	Demolish and Remove Existing 20" Water	LF	0	\$20	ç
26	Transmission Main Tank Connection	LS	0	\$22,000	(
27	Transmission Main Connection	LS	0	\$10,000	ç
•	Construction Total:			•	\$26,10

Date: 8/9/2016

Contingency Based upon Hard Costs (15%): \$3,900

Soft Costs Contingency (17%): \$4,400

> TOTAL WATER SYSTEM \$34,400

\* Assumes that water will be completed in conjunction with the sewer bore and jack.

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B	DESIGN GRO	UP

/illage 1 -	s Opinion of Costs Backbone Water				
PFE Credi Item #	t Phase 1 State Route 193 3 (V1W10) Description	Unit	Quantity	Unit Price	Amount
	Description	Unit	Quantity	Unit Price	Amount
Water S	System				
1	12" Water Line	LF	0	\$70	¢
2	16" Water Line	LF	0	\$85	ć
3	18" Water Line	LF	1,975	\$100	\$197,50
4	16" Water Line (Required Improvement)	LF	1,975	-\$85	-\$167,90
5	24" Water Line across Auburn Ravine Bridge *	LF	0	\$200	¢ 101)00
6	16" Water Line across Auburn Ravine Bridge * (Required Improvement)	LF	0	-\$135	ç
7	24" Water Line	LF	0	\$150	
8	16" Water Line (Required Improvement)	LF	0	-\$85	
9	30" Water Line	LF	0	\$175	
10	16" Water Line (Required Improvement)	LF	0	-\$85	
11	12" Water Valve	EA	0	\$3,000	
12	16" Water Valve	EA	0	\$6,500	
13	18" Water Valve	EA	4	\$8,500	\$34,00
14	16" Water Valve (Required Improvement)	EA	4	-\$6,500	-\$26,00
15	24" Water Valve	EA	0	\$30,000	(
16	16" Water Valve (Required Improvement)	EA	0	-\$6,500	
17	30" Water Valve	EA	0	\$35,000	
18	16" Water Valve (Required Improvement)	EA	0	-\$6,500	(
19	Pressure Reducing Valve	EA	0	\$75,000	(
20	Air Release Valve	EA	0	\$3,000	
21	Fire Hydrant w/Tee & Valves (FH / 500')	EA	0	\$6,000	
22	Bore and Jack (Across Auburn Ravine)**	EA	0	\$700	<u>,</u>
23	Flex Joints on Auburn Ravine Bridge (24" Water)	EA	0	\$50,000	<u>,</u>
24	Flex Joints on Auburn Ravine Bridge (16" Water) (Required Improvement)	EA	0	-\$34,000	
25	Demolish and Remove Existing 20" Water	LF	0	\$20	(
26	Transmission Main Tank Connection	LS	0	\$22,000	
27	Transmission Main Connection	LS	0	\$10,000	
<b>!</b>	Construction Total:			. ,	\$37,6

Date: 8/9/2016

Contingency Based upon Hard Costs (15%): \$5,600

Soft Costs Contingency (17%): \$6,400

TOTAL WATER SYSTEM \$49,600

\* Assumes that water will be completed in conjunction with the sewer bore and jack.



## Village 1 - Backbone Water

Item #	Description	Unit	Quantity	Unit Price	Amount
			-		
Water S	System				
1	12" Water Line	LF	0	\$70	\$
2	16" Water Line	LF	0	\$85	\$
3	18" Water Line	LF	340	\$100	\$34,00
4	16" Water Line (Required Improvement)	LF	340	-\$85	-\$28,90
5	24" Water Line across Auburn Ravine Bridge *	LF	0	\$200	\$
6	16" Water Line across Auburn Ravine Bridge * (Required Improvement)	LF	0	-\$135	\$
7	24" Water Line	LF	0	\$150	\$
8	16" Water Line (Required Improvement)	LF	0	-\$85	\$
9	30" Water Line	LF	0	\$175	\$
10	16" Water Line (Required Improvement)	LF	0	-\$85	\$
11	12" Water Valve	EA	0	\$3,000	ç
12	16" Water Valve	EA	0	\$6,500	ç
13	18" Water Valve	EA	1	\$8,500	\$8,50
14	16" Water Valve (Required Improvement)	EA	1	-\$6,500	-\$6,50
15	24" Water Valve	EA	0	\$30,000	ç
16	16" Water Valve (Required Improvement)	EA	0	-\$6,500	Ş
17	30" Water Valve	EA	0	\$35,000	\$
18	16" Water Valve (Required Improvement)	EA	0	-\$6,500	ç
19	Pressure Reducing Valve	EA	0	\$75,000	ç
20	Air Release Valve	EA	0	\$3,000	ç
21	Fire Hydrant w/Tee & Valves (FH / 500')	EA	0	\$6,000	ç
22	Bore and Jack (Across Auburn Ravine)**	EA	0	\$700	ç
23	Flex Joints on Auburn Ravine Bridge (24" Water)	EA	0	\$50,000	ç
24	Flex Joints on Auburn Ravine Bridge (16" Water) (Required Improvement)	EA	0	-\$34,000	ç
25	Demolish and Remove Existing 20" Water	LF	0	\$20	ć
26	Transmission Main Tank Connection	LS	0	\$22,000	
27	Transmission Main Connection	LS	0	\$10,000	
	Construction Total:	-	, i	+==,= 30	\$7,10

Contingency Based upon Hard Costs (15%): \$1,100

Soft Costs Contingency (17%): \$1,200

TOTAL WATER SYSTEM \$9,400

\* Assumes that water will be completed in conjunction with the sewer bore and jack.

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ltem #	Description	Unit	Quantity	Unit Price	Amount
	•				
Water	System				
1	12" Water Line	LF	0	\$70	\$(
2	16" Water Line	LF	0	\$85	\$(
3	18" Water Line	LF	0	\$100	\$0
4	16" Water Line (Required Improvement)	LF	0	-\$85	\$0
5	24" Water Line across Auburn Ravine Bridge *	LF	0	\$200	\$0
6	16" Water Line across Auburn Ravine Bridge * (Required Improvement)	LF	0	-\$135	\$(
7	24" Water Line	LF	0	\$150	\$(
8	16" Water Line (Required Improvement)	LF	0	-\$85	\$(
9	30" Water Line	LF	1,130	\$175	\$197,800
10	16" Water Line (Required Improvement)	LF	1,130	-\$85	-\$96,100
11	12" Water Valve	EA	0	\$3,000	\$(
12	16" Water Valve	EA	0	\$6,500	\$(
13	18" Water Valve	EA	0	\$8,500	\$(
14	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$(
15	24" Water Valve	EA	0	\$30,000	\$(
16	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$(
17	30" Water Valve	EA	1	\$35,000	\$35,000
18	16" Water Valve (Required Improvement)	EA	2	-\$6,500	-\$13,000
19	Pressure Reducing Valve	EA	0	\$75,000	\$(

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LS

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\$123,700

\$0

\$0

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\$0

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\$0

#### Contingency Based upon Hard Costs (15%): \$18,600

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Soft Costs Contingency (17%): \$21,000

> **TOTAL WATER SYSTEM** \$163,300

\$3,000

\$6,000

\$50,000

-\$34,000

\$22,000

\$10,000

\$20

\$700

\* Assumes that water will be completed in conjunction with the sewer bore and jack.

\*\*Including restrained joints and brackets

Air Release Valve

Fire Hydrant w/Tee & Valves (FH / 500')

Bore and Jack (Across Auburn Ravine)\*\*

Flex Joints on Auburn Ravine Bridge (16"

Demolish and Remove Existing 20" Water

Transmission Main Tank Connection

Water) (Required Improvement)

Transmission Main Connection

Flex Joints on Auburn Ravine Bridge (24" Water

**Construction Total:** 

民	FRAY	JI
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	's Opinion of Costs				
-	- Backbone Water				
	dit Phase 2 Oak Tree Lane 4 (V1W2)				
Item #	Description	Unit	Quantity	Unit Price	Amount
Water	System				
1	12" Water Line	LF	0	\$70	\$(
2	16" Water Line	LF	0	\$85	\$(
3	18" Water Line	LF	0	\$100	\$(
4	16" Water Line (Required Improvement)	LF	0	-\$85	\$(
5	24" Water Line across Auburn Ravine Bridge *	LF	0	\$200	\$(
6	16" Water Line across Auburn Ravine Bridge * (Required Improvement)	LF	0	-\$135	\$(
7	24" Water Line	LF	0	\$150	Ş
8	16" Water Line (Required Improvement)	LF	0	-\$85	\$(
9	30" Water Line	LF	1,130	\$175	\$197,80
10	16" Water Line (Required Improvement)	LF	1,130	-\$85	-\$96,10
11	12" Water Valve	EA	0	\$3,000	\$(
12	16" Water Valve	EA	0	\$6,500	Ş
13	18" Water Valve	EA	0	\$8,500	\$
14	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$
15	24" Water Valve	EA	0	\$30,000	\$
16	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$
17	30" Water Valve	EA	1	\$35,000	\$35,00
18	16" Water Valve (Required Improvement)	EA	2	-\$6,500	-\$13,00
19	Pressure Reducing Valve	EA	0	\$75,000	\$
20	Air Release Valve	EA	0	\$3,000	\$
21	Fire Hydrant w/Tee & Valves (FH / 500')	EA	0	\$6,000	\$
22	Bore and Jack (Across Auburn Ravine)**	EA	0	\$700	\$
23	Flex Joints on Auburn Ravine Bridge (24" Water)	EA	0	\$50,000	\$
24	Flex Joints on Auburn Ravine Bridge (16" Water) (Required Improvement)	EA	0	-\$34,000	\$
25	Demolish and Remove Existing 20" Water	LF	0	\$20	\$
26	Transmission Main Tank Connection	LS	0	\$22,000	\$
27	Transmission Main Connection	LS	0	\$10,000	\$1
	Construction Total:		· ·	. ,	\$123,70

#### Contingency Based upon Hard Costs (15%): \$18,600

Soft Costs Contingency (17%): \$21,000

### TOTAL WATER SYSTEM \$163,300

\* Assumes that water will be completed in conjunction with the sewer bore and jack.

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B	DESIGN GRO	UP

## Engineer's Opinion of Costs Village 1 - Backbone Water

PFE Summary						
Item #	Description	Unit	Quantity	Unit Price	Amount	
Water	System					
1	12" Water Line	LF	0	\$70	\$0	
2	16" Water Line	LF	0	\$85	\$0	
3	18" Water Line	LF	1,400	\$100	\$140,000	
4	16" Water Line (Required Improvement)	LF	1,400	-\$85	-\$119,000	
5	24" Water Line across Auburn Ravine Bridge *	LF	550	\$200	\$110,000	
6	16" Water Line across Auburn Ravine Bridge * (Required Improvement)	LF	550	-\$135	-\$74,300	
7	24" Water Line	LF	5,020	\$150	\$753,100	
8	16" Water Line (Required Improvement)	LF	5,020	-\$85	-\$426,700	
9	30" Water Line	LF	2,940	\$175	\$514,600	
10	16" Water Line (Required Improvement)	LF	2,940	-\$85	-\$250,000	
11	12" Water Valve	EA	0	\$3,000	\$0	
12	16" Water Valve	EA	0	\$6,500	\$0	
13	18" Water Valve	EA	3	\$8,500	\$25,500	
14	16" Water Valve (Required Improvement)	EA	3	-\$6,500	-\$19,500	
15	24" Water Valve	EA	5	\$30,000	\$150,000	
16	16" Water Valve (Required Improvement)	EA	10	-\$6,500	-\$65,000	
17	30" Water Valve	EA	3	\$35,000	\$105,000	
18	16" Water Valve (Required Improvement)	EA	6	-\$6,500	-\$39,000	
19	Pressure Reducing Valve	EA	0	\$75,000	\$0	
20	Air Release Valve	EA	0	\$3,000	\$0	
21	Fire Hydrant w/Tee & Valves (FH / 500')	EA	0	\$6,000	\$0	
22	Bore and Jack (Across Auburn Ravine)**	EA	0	\$700	\$0	
23	Flex Joints on Auburn Ravine Bridge (24" Water)	EA	2	\$50,000	\$100,000	
24	Flex Joints on Auburn Ravine Bridge (16" Water) (Required Improvement)	EA	2	-\$34,000	-\$68,000	
25	Demolish and Remove Existing 20" Water	LF	2	\$20	\$0	
26	Transmission Main Tank Connection	LS	0	\$22,000	\$0	
27	Transmission Main Connection	LS	0	\$10,000	\$0	
	Construction Total:		1 1	, ,	\$836,700	

#### Contingency Based upon Hard Costs (15%): \$125,400

Soft Costs Contingency (17%): \$142,200

> **TOTAL WATER SYSTEM** \$1,104,300

\* Assumes that water will be completed in conjunction with the sewer bore and jack.

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Item #	se 3 Summary Description	Unit	Quantity	Unit Price	Amount
itein #	Description	Unit	Quantity	Unit Price	Amount
Water	System				
1	12" Water Line	LF	0	\$70	ç
2	16" Water Line	LF	0	\$85	ç
3	18" Water Line	LF	0	\$100	ç
4	16" Water Line (Required Improvement)	LF	0	-\$85	ç
5	24" Water Line across Auburn Ravine Bridge *	LF	0	\$200	ç
6	16" Water Line across Auburn Ravine Bridge * (Required Improvement)	LF	0	-\$135	ç
7	24" Water Line	LF	4,055	\$150	\$608,30
8	16" Water Line (Required Improvement)	LF	4,055	-\$85	-\$344,70
9	30" Water Line	LF	1,130	\$175	\$197,80
10	16" Water Line (Required Improvement)	LF	1,130	-\$85	-\$96,10
11	12" Water Valve	EA	0	\$3,000	\$
12	16" Water Valve	EA	0	\$6,500	\$
13	18" Water Valve	EA	0	\$8,500	\$
14	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$
15	24" Water Valve	EA	4	\$30,000	\$120,00
16	16" Water Valve (Required Improvement)	EA	8	-\$6,500	-\$52,00
17	30" Water Valve	EA	1	\$35,000	\$35,00
18	16" Water Valve (Required Improvement)	EA	2	-\$6,500	-\$13,00
19	Pressure Reducing Valve	EA	0	\$75,000	Ś

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\$0 \$0 \$0 \$0 \$0

\$0 \$608,300 -\$344,700 \$197,800 -\$96,100 \$0 \$0 \$0 \$0 \$120,000 -\$52,000 \$35,000 -\$13,000

\$0

\$0

\$0

\$0

\$0

\$0

\$0

\$0

\$0

\$455,300

Contingency Based upon Hard Costs (15%): \$68,300

0

0

0

0

0

0

0

0

Soft Costs Contingency (17%): \$77,400

#### **TOTAL WATER SYSTEM** \$601,000

\$3,000

\$6,000

\$50,000

-\$34,000

\$22,000

\$10,000

\$700

\$20

\* Assumes that water will be completed in conjunction with the sewer bore and jack.

\*\*Including restrained joints and brackets

Air Release Valve

(Required Improvement)

Fire Hydrant w/Tee & Valves (FH / 500')

Bore and Jack (Across Auburn Ravine)\*\*

Demolish and Remove Existing 20" Water

Transmission Main Tank Connection

Transmission Main Connection

Flex Joints on Auburn Ravine Bridge (24" Water)

Flex Joints on Auburn Ravine Bridge (16" Water)

**Construction Total:** 



Engineer's Opinion of Costs Village 1 - Backbone Water						
	e 3 Oak Tree Lane 3 (V1W2)					
Item #	Description	Unit	Quantity	Unit Price	Amount	
Water S	System					
1	12" Water Line	LF	0	\$70	\$	
2	16" Water Line	LF	0	\$85	Ş	
3	18" Water Line	LF	0	\$100	\$	
4	16" Water Line (Required Improvement)	LF	0	-\$85	\$(	
5	24" Water Line across Auburn Ravine Bridge *	LF	0	\$200	\$(	
6	16" Water Line across Auburn Ravine Bridge * (Required Improvement)	LF	0	-\$135	\$(	
7	24" Water Line	LF	0	\$150	\$	
8	16" Water Line (Required Improvement)	LF	0	-\$85	\$	
9	30" Water Line	LF	1,130	\$175	\$197,80	
10	16" Water Line (Required Improvement)	LF	1,130	-\$85	-\$96,10	
11	12" Water Valve	EA	0	\$3,000	\$(	
12	16" Water Valve	EA	0	\$6,500	\$	
13	18" Water Valve	EA	0	\$8,500	\$	
14	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$	
15	24" Water Valve	EA	0	\$30,000	\$	
16	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$	
17	30" Water Valve	EA	1	\$35,000	\$35,00	
18	16" Water Valve (Required Improvement)	EA	2	-\$6,500	-\$13,00	
19	Pressure Reducing Valve	EA	0	\$75 <i>,</i> 000	\$	
20	Air Release Valve	EA	0	\$3,000	\$	
21	Fire Hydrant w/Tee & Valves (FH / 500')	EA	0	\$6,000	\$	
22	Bore and Jack (Across Auburn Ravine)**	EA	0	\$700	\$	
23	Flex Joints on Auburn Ravine Bridge (24" Water)	EA	0	\$50,000	\$	
24	Flex Joints on Auburn Ravine Bridge (16" Water) (Required Improvement)	EA	0	-\$34,000	\$	
25	Demolish and Remove Existing 20" Water	LF	0	\$20	\$	
26	Transmission Main Tank Connection	LS	0	\$22,000	\$	
27	Transmission Main Connection	LS	0	\$10,000	\$	
-	Construction Total:		•		\$123,70	

#### Contingency Based upon Hard Costs (15%): \$18,600

Soft Costs Contingency (17%): \$21,000

#### TOTAL WATER SYSTEM \$163,300

\* Assumes that water will be completed in conjunction with the sewer bore and jack.



Engineer'	s Opinion of Costs				
	Backbone Water				
-	e 3 Oak Tree Lane 10 (V1W6)				
Item #	Description	Unit	Quantity	Unit Price	Amount
Water S	System		1		
Trater C	bystein				
1	12" Water Line	LF		¢70	ć
			0	\$70	\$(
2	16" Water Line	LF	0	\$85	\$(
3	18" Water Line	LF	0	\$100	\$(
4	16" Water Line (Required Improvement)	LF	0	-\$85	\$(
5	24" Water Line across Auburn Ravine Bridge *	LF	0	\$200	\$(
6	16" Water Line across Auburn Ravine Bridge * (Required Improvement)	LF	0	-\$135	\$0
7	24" Water Line	LF	3,090	\$150	\$463,500
8	16" Water Line (Required Improvement)	LF	3,090	-\$85	-\$262,700
9	30" Water Line	LF	0	\$175	\$(
10	16" Water Line (Required Improvement)	LF	0	-\$85	\$(
11	12" Water Valve	EA	0	\$3,000	\$(
12	16" Water Valve	EA	0	\$6,500	\$(
13	18" Water Valve	EA	0	\$8,500	\$(
14	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$(
15	24" Water Valve	EA	3	\$30,000	\$90,000
16	16" Water Valve (Required Improvement)	EA	6	-\$6,500	-\$39,000
17	30" Water Valve	EA	0	\$35,000	\$(
18	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$(
19	Pressure Reducing Valve	EA	0	\$75,000	\$(
20	Air Release Valve	EA	0	\$3,000	\$(
21	Fire Hydrant w/Tee & Valves (FH / 500')	EA	0	\$6,000	\$(
22	Bore and Jack (Across Auburn Ravine)**	EA	0	\$700	\$
23	Flex Joints on Auburn Ravine Bridge (24" Water)	EA	0	\$50,000	\$
24	Flex Joints on Auburn Ravine Bridge (16" Water) (Required Improvement)	EA	0	-\$34,000	şı Şı
24	Demolish and Remove Existing 20" Water	LF	0	\$20	\$(
25	Transmission Main Tank Connection	LF	0	\$22,000	\$
20	Transmission Main Connection	LS	0	\$22,000	ې ډ
21	Construction Total:	LO	0	\$10,000	· · ·
	Construction Lotal:				\$251,80

#### Contingency Based upon Hard Costs (15%): \$37,700

Soft Costs Contingency (17%): \$42,800

### TOTAL WATER SYSTEM \$332,300

\* Assumes that water will be completed in conjunction with the sewer bore and jack.



Engineer'	s Opinion of Costs				
Village 1 -	Backbone Water				
PFE Phas	e 3 Oak Tree Lane 11 (V1W7)				
Item #	Description	Unit	Quantity	Unit Price	Amount
<b>_</b>			<u> </u>		
Water S	System		<u> </u>		
1	12" Water Line	LF	0	\$70	\$
2	16" Water Line	LF	0	\$85	\$
3	18" Water Line	LF	0	\$100	\$
4	16" Water Line (Required Improvement)	LF	0	-\$85	\$
5	24" Water Line across Auburn Ravine Bridge *	LF	0	\$200	\$
5	16" Water Line across Auburn Ravine Bridge *			Ş200	Ļ
6	(Required Improvement)	LF	0	-\$135	\$
7	24" Water Line	LF	965	\$150	\$144,80
8	16" Water Line (Required Improvement)	LF	965	-\$85	-\$82,00
9	30" Water Line	LF	0	\$175	\$
10	16" Water Line (Required Improvement)	LF	0	-\$85	\$
11	12" Water Valve	EA	0	\$3,000	\$
12	16" Water Valve	EA	0	\$6,500	\$
13	18" Water Valve	EA	0	\$8,500	\$
14	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$
15	24" Water Valve	EA	1	\$30,000	\$30,00
16	16" Water Valve (Required Improvement)	EA	2	-\$6,500	-\$13,00
17	30" Water Valve	EA	0	\$35,000	\$
18	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$
19	Pressure Reducing Valve	EA	0	\$75,000	\$
20	Air Release Valve	EA	0	\$3,000	\$
21	Fire Hydrant w/Tee & Valves (FH / 500')	EA	0	\$6,000	\$
22	Bore and Jack (Across Auburn Ravine)**	EA	0	\$700	\$
23	Flex Joints on Auburn Ravine Bridge (24" Water)	EA	0	\$50,000	\$
24	Flex Joints on Auburn Ravine Bridge (16" Water) (Required Improvement)	EA	0	-\$34,000	\$
25	Demolish and Remove Existing 20" Water	LF	0	\$20	\$
26	Transmission Main Tank Connection	LS	0	\$22,000	\$
27	Transmission Main Connection	LS	0	\$10,000	\$
	Construction Total:			. , .	, \$79,80

#### Contingency Based upon Hard Costs (15%): \$12,000

Soft Costs Contingency (17%): \$13,600

#### TOTAL WATER SYSTEM \$105,400

\* Assumes that water will be completed in conjunction with the sewer bore and jack.

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Engineer's Opinion of Costs Village 1 - Backbone Water						
PFE Pha Item #	ase 4 Summary Description	Unit	Quantity	Unit Price	Amount	
		•			7 uno uno	
Water	<sup>-</sup> System		T T			
mator	Gyotom		+ +			
1	12" Water Line	LF	0	\$70	\$0	
2	16" Water Line		0	\$70	\$0 \$0	
2	18" Water Line		0	\$85	\$0 \$0	
4	16" Water Line (Required Improvement)		0	-\$85	\$0 \$0	
4 5	24" Water Line across Auburn Ravine Bridge *	LF	0	\$200	\$0 \$0	
5	16" Water Line across Auburn Ravine Bridge *		0	\$200	ŞŪ	
6	(Required Improvement)	LF	0	-\$135	\$0	
7	24" Water Line	LF	0	\$150	\$0	
8	16" Water Line (Required Improvement)	LF	0	-\$85	\$0	
9	30" Water Line	LF	1,810	\$175	\$316,800	
10	16" Water Line (Required Improvement)	LF	1,810	-\$85	-\$153,900	
11	12" Water Valve	EA	0	\$3,000	\$0	
12	16" Water Valve	EA	0	\$6,500	\$0	
13	18" Water Valve	EA	0	\$8,500	\$0	
14	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$0	
15	24" Water Valve	EA	0	\$30,000	\$0	
16	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$0	
17	30" Water Valve	EA	2	\$35,000	\$70,000	
18	16" Water Valve (Required Improvement)	EA	4	-\$6,500	-\$26,000	
19	Pressure Reducing Valve	EA	0	\$75,000	\$0	
20	Air Release Valve	EA	0	\$3,000	\$0	
21	Fire Hydrant w/Tee & Valves (FH / 500')	EA	0	\$6,000	\$0	
22	Bore and Jack (Across Auburn Ravine)**	EA	0	\$700	\$0	
23	Flex Joints on Auburn Ravine Bridge (24" Water)	EA	0	\$50,000	\$0	
	Flex Joints on Auburn Ravine Bridge (16" Water)	EA				
24	(Required Improvement)		0	-\$34,000	\$0	
25	Demolish and Remove Existing 20" Water	LF	0	\$20	\$0	
26	Transmission Main Tank Connection	LS	0	\$22,000	\$0	
27	Transmission Main Connection	LS	0	\$10,000	\$0	

#### **Construction Total:**

Contingency Based upon Hard Costs (15%): \$31,000

Soft Costs Contingency (17%): \$35,200

TOTAL WATER SYSTEM \$273,100

\$206,900

\* Assumes that water will be completed in conjunction with the sewer bore and jack.

\*\*Including restrained joints and brackets

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B	DESIGN GRO	UP

Engineer's Opinion of Costs Village 1 - Backbone Water PFE Phase 4 Oak Tree Lane to Water Tank 2 (V1W1)						
Item #	Description	Unit	Quantity	Unit Price	Amount	
			<u> </u>			
Water S	System					
	•					
1	12" Water Line	LF	0	\$70	\$	
2	16" Water Line	LF	0	\$85	\$	
3	18" Water Line	LF	0	\$100	\$	
4	16" Water Line (Required Improvement)	LF	0	-\$85	\$	
5	24" Water Line across Auburn Ravine Bridge *	LF	0	\$200	\$	
6	16" Water Line across Auburn Ravine Bridge * (Required Improvement)	LF	0	-\$135	Ş	
7	24" Water Line	LF	0	\$150	\$	
8	16" Water Line (Required Improvement)	LF	0	-\$85	\$	
9	30" Water Line	LF	1,810	\$175	\$316,80	
10	16" Water Line (Required Improvement)	LF	1,810	-\$85	-\$153,90	
11	12" Water Valve	EA	0	\$3,000	\$	
12	16" Water Valve	EA	0	\$6,500	\$	
13	18" Water Valve	EA	0	\$8,500	\$	
14	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$	
15	24" Water Valve	EA	0	\$30,000	\$	
16	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$	
17	30" Water Valve	EA	2	\$35,000	\$70,00	
18	16" Water Valve (Required Improvement)	EA	4	-\$6,500	-\$26,00	
19	Pressure Reducing Valve	EA	0	\$75,000	\$	
20	Air Release Valve	EA	0	\$3,000	\$	
21	Fire Hydrant w/Tee & Valves (FH / 500')	EA	0	\$6,000	\$	
22	Bore and Jack (Across Auburn Ravine)**	EA	0	\$700	\$	
23	Flex Joints on Auburn Ravine Bridge (24" Water)	EA	0	\$50,000	\$	
24	Flex Joints on Auburn Ravine Bridge (16" Water) (Required Improvement)	EA	0	-\$34,000	\$	
25	Demolish and Remove Existing 20" Water	LF	0	\$20	\$	
26	Transmission Main Tank Connection	LS	0	\$22,000	\$	
27	Transmission Main Connection	LS	0	\$10,000	\$	
•	Construction Total:				\$206,90	

#### Contingency Based upon Hard Costs (15%): \$31,000

Soft Costs Contingency (17%): \$35,200

### TOTAL WATER SYSTEM \$273,100

\* Assumes that water will be completed in conjunction with the sewer bore and jack.

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B	DESIGN GRO	UP

Item #	Description	Unit	Quantity	Unit Price	Amount
Water	System		- T		
mater	bystem				
1	12" Water Line	LF	0	\$70	Ş
2	16" Water Line	LF	0	\$85	\$
3	18" Water Line	LF	1,400	\$100	\$140,00
4	16" Water Line (Required Improvement)	LF	1,400	-\$85	-\$119,00
5	24" Water Line across Auburn Ravine Bridge *	LF	550	\$200	\$110,00
6	16" Water Line across Auburn Ravine Bridge * (Required Improvement)	LF	550	-\$135	-\$74,30
7	24" Water Line	LF	965	\$150	\$144,80
8	16" Water Line (Required Improvement)	LF	965	-\$85	-\$82,00
9	30" Water Line	LF	0	\$175	\$
10	16" Water Line (Required Improvement)	LF	0	-\$85	\$
11	12" Water Valve	EA	0	\$3,000	\$
12	16" Water Valve	EA	0	\$6,500	\$
13	18" Water Valve	EA	3	\$8,500	\$25,50
14	16" Water Valve (Required Improvement)	EA	3	-\$6,500	-\$19,50
15	24" Water Valve	EA	1	\$30,000	\$30,00
16	16" Water Valve (Required Improvement)	EA	2	-\$6,500	-\$13,00
17	30" Water Valve	EA	0	\$35,000	\$
18	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$
19	Pressure Reducing Valve	EA	0	\$75,000	\$
20	Air Release Valve	EA	0	\$3,000	\$
21	Fire Hydrant w/Tee & Valves (FH / 500')	EA	0	\$6,000	\$
22	Bore and Jack (Across Auburn Ravine)**	EA	0	\$700	\$
23	Flex Joints on Auburn Ravine Bridge (24" Water)	EA	2	\$50,000	\$100,00
24	Flex Joints on Auburn Ravine Bridge (16" Water) (Required Improvement)	EA	2	-\$34,000	-\$68,00
25	Demolish and Remove Existing 20" Water	LF	0	\$20	\$
26	Transmission Main Tank Connection	LS	0	\$22,000	\$
27	Transmission Main Connection	LS	0	\$10,000	\$

#### Contingency Based upon Hard Costs (15%): \$26,200

**Soft Costs Contingency (17%):** \$29,700

#### TOTAL WATER SYSTEM \$230,400

\* Assumes that water will be completed in conjunction with the sewer bore and jack.



Engineer's	s Opinion of Costs				
Village 1 -	Backbone Water				
PFE Phase	e 7 Oak Tree Lane 12 (V1W8)				
Item #	Description	Unit	Quantity	Unit Price	Amount
B	•		<u> </u>		
Water S	System		<u> </u>		
matori					
1	12" Water Line	LF	0	\$70	\$
2	16" Water Line	LF	0	\$85	\$
3	18" Water Line	LF	0	\$100	\$
4	16" Water Line (Required Improvement)	LF	0	-\$85	\$
5	24" Water Line across Auburn Ravine Bridge *	LF	0	\$200	\$
5	16" Water Line across Auburn Ravine Bridge *		0	Ş200	Ļ
6	(Required Improvement)	LF	0	-\$135	\$
7	24" Water Line	LF	140	\$150	\$21,00
8	16" Water Line (Required Improvement)	LF	140	-\$85	-\$11,90
9	30" Water Line	LF	0	\$175	\$
10	16" Water Line (Required Improvement)	LF	0	-\$85	\$
11	12" Water Valve	EA	0	\$3,000	\$
12	16" Water Valve	EA	0	\$6,500	\$
13	18" Water Valve	EA	0	\$8,500	\$
14	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$
15	24" Water Valve	EA	0	\$30,000	\$
16	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$
17	30" Water Valve	EA	0	\$35,000	\$
18	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$
19	Pressure Reducing Valve	EA	0	\$75,000	\$
20	Air Release Valve	EA	0	\$3,000	\$
21	Fire Hydrant w/Tee & Valves (FH / 500')	EA	0	\$6,000	\$
22	Bore and Jack (Across Auburn Ravine)**	EA	0	\$700	\$
23	Flex Joints on Auburn Ravine Bridge (24" Water)	EA	0	\$50,000	ç
24	Flex Joints on Auburn Ravine Bridge (16" Water) (Required Improvement)	EA	0	-\$34,000	ç
25	Demolish and Remove Existing 20" Water	LF	0	\$20	\$
26	Transmission Main Tank Connection	LS	0	\$22,000	¢
27	Transmission Main Connection	LS	0	\$10,000	ç
•	Construction Total:			. ,	, \$9,10

#### Contingency Based upon Hard Costs (15%): \$1,400

Soft Costs Contingency (17%): \$1,500

#### TOTAL WATER SYSTEM \$12,000

\* Assumes that water will be completed in conjunction with the sewer bore and jack.



Engineer'	s Opinion of Costs				
	- Backbone Water				
-	e 7 Oak Tree Lane 13 (V1W8)				
Item #	Description	Unit	Quantity	Unit Price	Amount
Water \$	System				
mator					
1	12" Water Line	LF	0	\$70	\$(
2	16" Water Line	LF	0	\$85	\$(
3	18" Water Line	LF	0	\$100	\$(
4	16" Water Line (Required Improvement)	LF	0	-\$85	\$(
5	24" Water Line across Auburn Ravine Bridge *	LF	550	\$200	\$110,000
5	16" Water Line across Auburn Ravine Bridge *		550	Ş200	\$110,000
6	(Required Improvement)	LF	550	-\$135	-\$74,300
7	24" Water Line	LF	825	\$150	\$123,800
8	16" Water Line (Required Improvement)	LF	825	-\$85	-\$70,100
9	30" Water Line	LF	0	\$175	\$(
10	16" Water Line (Required Improvement)	LF	0	-\$85	\$(
11	12" Water Valve	EA	0	\$3,000	\$(
12	16" Water Valve	EA	0	\$6,500	\$(
13	18" Water Valve	EA	0	\$8,500	\$(
14	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$(
15	24" Water Valve	EA	1	\$30,000	\$30,000
16	16" Water Valve (Required Improvement)	EA	2	-\$6,500	-\$13,000
17	30" Water Valve	EA	0	\$35,000	\$(
18	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$(
19	Pressure Reducing Valve	EA	0	\$75,000	\$(
20	Air Release Valve	EA	0	\$3,000	\$(
21	Fire Hydrant w/Tee & Valves (FH / 500')	EA	0	\$6,000	\$(
22	Bore and Jack (Across Auburn Ravine)**	EA	0	\$700	\$(
23	Flex Joints on Auburn Ravine Bridge (24" Water)	EA	2	\$50,000	\$100,000
24	Flex Joints on Auburn Ravine Bridge (16" Water) (Required Improvement)	EA	2	-\$34,000	-\$68,000
25	Demolish and Remove Existing 20" Water	LF	0	\$20	\$(
26	Transmission Main Tank Connection	LS	0	\$22,000	\$(
27	Transmission Main Connection	LS	0	\$10,000	\$(
	Construction Total:		· · ·	· · /	\$138,400

#### Contingency Based upon Hard Costs (15%): \$20,700

Soft Costs Contingency (17%): \$23,600

### TOTAL WATER SYSTEM \$182,700

\* Assumes that water will be completed in conjunction with the sewer bore and jack.



Engineer's Opinion of Costs Village 1 - Backbone Water					
PFE Phas Item #	se 7 Virginiatown Road 1 (V1W9) Description	Unit	Quantity	Unit Price	Amount
	Description	01110	Quantity		Amount
Water	System		T T	l.	
mator	oyotom				
1	12" Water Line	LF	0	\$70	Ş
2	16" Water Line	LF	0	\$85	\$
3	18" Water Line	LF	800	\$100	رې \$80,00
4	16" Water Line (Required Improvement)	LF	800	-\$85	-\$68,00
5	24" Water Line across Auburn Ravine Bridge *	LF	0	\$200	
5	16" Water Line across Auburn Ravine Bridge *			Ş200	ې
6	(Required Improvement)	LF	0	-\$135	\$
7	24" Water Line	LF	0	\$150	\$
8	16" Water Line (Required Improvement)	LF	0	-\$85	\$
9	30" Water Line	LF	0	\$175	\$
10	16" Water Line (Required Improvement)	LF	0	-\$85	\$
11	12" Water Valve	EA	0	\$3,000	\$
12	16" Water Valve	EA	0	\$6,500	Ş
13	18" Water Valve	EA	2	\$8,500	\$17,00
14	16" Water Valve (Required Improvement)	EA	2	-\$6,500	-\$13,00
15	24" Water Valve	EA	0	\$30,000	\$
16	16" Water Valve (Required Improvement)	EA	0	-\$6,500	Ş
17	30" Water Valve	EA	0	\$35,000	\$
18	16" Water Valve (Required Improvement)	EA	0	-\$6,500	Ş
19	Pressure Reducing Valve	EA	0	\$75,000	\$
20	Air Release Valve	EA	0	\$3,000	\$
21	Fire Hydrant w/Tee & Valves (FH / 500')	EA	0	\$6,000	\$
22	Bore and Jack (Across Auburn Ravine)**	EA	0	\$700	\$
23	Flex Joints on Auburn Ravine Bridge (24" Water)	EA	0	\$50,000	\$
24	Flex Joints on Auburn Ravine Bridge (16" Water) (Required Improvement)	EA	0	-\$34,000	\$
25	Demolish and Remove Existing 20" Water	LF	0	\$20	\$
26	Transmission Main Tank Connection	LS	0	\$22,000	\$
27	Transmission Main Connection	LS	0	\$10,000	\$
	Construction Total:		•		\$16,00

#### Contingency Based upon Hard Costs (15%): \$2,400

Soft Costs Contingency (17%): \$2,700

### TOTAL WATER SYSTEM \$21,100

\* Assumes that water will be completed in conjunction with the sewer bore and jack.



Engineer's Opinion of Costs Village 1 - Backbone Water					
PFE Phas Item #	se 7 Virginiatown Road 2 (V1W9) Description	Unit	Quantity	Unit Price	Amount
	Description	Unit	Quantity	Unit file	Amount
Water	System			l.	
mator	oyotom		+		
1	12" Water Line	LF	0	\$70	Ş
2	16" Water Line	LF	0	\$85	<u>ې</u> \$
3	18" Water Line	LF	600	\$100	ېږ \$60,00
4	16" Water Line (Required Improvement)	LF	600	-\$85	-\$51,00
5	24" Water Line across Auburn Ravine Bridge *	LF	000	\$200	\$51,000 \$(
<u> </u>	16" Water Line across Auburn Ravine Bridge *			Ş200	ŶŸ
6	(Required Improvement)	LF	0	-\$135	\$1
7	24" Water Line	LF	0	\$150	\$1
8	16" Water Line (Required Improvement)	LF	0	-\$85	\$1
9	30" Water Line	LF	0	\$175	\$I
10	16" Water Line (Required Improvement)	LF	0	-\$85	\$1
11	12" Water Valve	EA	0	\$3,000	\$I
12	16" Water Valve	EA	0	\$6,500	\$I
13	18" Water Valve	EA	1	\$8,500	\$8,50
14	16" Water Valve (Required Improvement)	EA	1	-\$6,500	-\$6,50
15	24" Water Valve	EA	0	\$30,000	\$1
16	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$
17	30" Water Valve	EA	0	\$35,000	\$
18	16" Water Valve (Required Improvement)	EA	0	-\$6,500	\$
19	Pressure Reducing Valve	EA	0	\$75,000	\$
20	Air Release Valve	EA	0	\$3,000	\$
21	Fire Hydrant w/Tee & Valves (FH / 500')	EA	0	\$6,000	\$
22	Bore and Jack (Across Auburn Ravine)**	EA	0	\$700	\$
23	Flex Joints on Auburn Ravine Bridge (24" Water)	EA	0	\$50,000	\$
24	Flex Joints on Auburn Ravine Bridge (16" Water) (Required Improvement)	EA	0	-\$34,000	\$
25	Demolish and Remove Existing 20" Water	LF	0	\$20	\$
26	Transmission Main Tank Connection	LS	0	\$22,000	\$
27	Transmission Main Connection	LS	0	\$10,000	\$
	Construction Total:				\$11,00

#### Contingency Based upon Hard Costs (15%): \$1,700

Soft Costs Contingency (17%): \$1,900

### TOTAL WATER SYSTEM \$14,600

\* Assumes that water will be completed in conjunction with the sewer bore and jack.

# APPENDIX 14 Lincoln Village 1 Specific Plan Infrastructure Finance Plan Drainage PFE Costs



Engineer's Opinion of Costs Village 1 - Drainage PFE Summary					
Item #	Description	Unit	Quantity	Unit Price	Amount
		•	Quality		, and an
Storm D	rainage System				
Village 1					
-				¢=0	
1	12" SD Line	LF	0	\$50	\$0
2	15" SD Line	LF LF	0	\$60	\$0
3	18" SD Line		0	\$75	\$0
4	24" SD Line	LF LF	0	\$85	\$0
5	30" SD Line		0	\$110	\$0
6	36" SD Line	LF	0	\$125	\$0
7	42" SD Line	LF	0	\$150	\$0
8	48" SD Line	LF	0	\$180	\$0
9	60" SD Line	LF	0	\$190	\$0
10	Standard 48" SDMH (MH/400')	EA	0	\$4,250	\$0
11	Trunk 60" SDMH (MH/400')	EA	0	\$8,500	\$0
12	18" Culvert Extension	LF	0	\$125	\$0
13	24" Culvert Extension	LF	0	\$150	\$0
14	36" Culvert Extension	LF	0	\$225	\$0
15	Headwall Retrofit	EA	0	\$12,500	\$0
16	Drainage Inlet	EA	0	\$2,650	\$0
17	Drainage Inlet and Retrofit Pipe	EA	0	\$5,000	\$0
18	Grassy Swale	EA	0	\$5,000	\$0
19	Stormwater Quality Basin	EA	0	\$25,000	\$0
20	Outfall	LS	0	\$9,000	\$0
21	Culvert - 12'x5' Arch Culvert - Oak Tree near new Lake	EA	0	\$450,000	\$90,000
22	Culvert - 12'x5' Arch Culvert and 48" Culvert - Oak Tree near Regional Park *	EA	0	\$525,000	\$0
23	NID Box Culvert Expansion	EA	0	\$75,000	\$0
24	Culvert - 12'x5.5' Arch Culvert - North South Collector near State Route 193	EA	0	\$400,000	\$0
25	Culvert - 30" Culvert - Oak Tree Lane and South Ingram Slough East of No. So. Collector	EA	0	\$100,000	\$0
26	Wetland Mitigation - Oak Tree Lane Overcrossing **	EA	0	\$300,000	\$0
27	CLOMR and LOMR - Auburn Ravine next to Ferrari Ranch Road	JOB	0	\$80,000	\$0
28	Retrofit Lake outlet and berm***	EA	1	\$1,000,000	\$1,000,000
29	Grading	CY	0	\$4	\$0
30	Auburn Ravine Bank Stabilization	SF	0	\$1	\$0
31	Auburn Ravine Hydroseed	SF	0	\$0	\$0
32	Auburn Ravine Armoring	SF	0	\$15	\$0
33	Auburn Ravine Tree Planting	EA	0	\$100	\$0
	Construction Total:				\$1,090,000

\* Includes traffic control and demolition of existing culverts.

Contingency Based upon Hard Costs (15%):	\$163,500
Soft Costs Contingency (17%):	\$185,300

\*\* Estimated costs, actual cost will be developed in conjunction with environmental consultant.

TOTAL DRAINAGE	\$1,438,800

\*\*\* Further consultation will be required with geotechnical and environmental consultants to determine actual cost to retrofit lake outfall, berm and wetland permit.

FE Phase	e 3 Summary	Village 1 - Drainage PFE Phase 3 Summary					
tem #	Description	Unit	Quantity	Unit Price	Amount		
	rainage System						
illage 1							
1	12" SD Line	LF	0	\$50			
2	15" SD Line	LF	0	\$60	9		
3	18" SD Line	LF	0	\$75			
4	24" SD Line	LF	0	\$85			
5	30" SD Line	LF	0	\$110			
6	36" SD Line	LF	0	\$125			
7	42" SD Line	LF	0	\$150			
8	48" SD Line	LF	0	\$180	( T		
9	60" SD Line	LF	0	\$190	Ç		
10	Standard 48" SDMH (MH/400')	EA	0	\$4,250			
11	Trunk 60" SDMH (MH/400')	EA	0	\$8,500			
12	18" Culvert Extension	LF	0	\$125	(		
13	24" Culvert Extension	LF	0	\$150	5		
14	36" Culvert Extension	LF	0	\$225			
15	Headwall Retrofit	EA	0	\$12,500			
16	Drainage Inlet	EA	0	\$2,650			
17	Drainage Inlet and Retrofit Pipe	EA	0	\$5,000			
18	Grassy Swale	EA	0	\$5,000			
19	Stormwater Quality Basin	EA	0	\$25,000			
20	Outfall	LS	0	\$9,000			
21	Culvert - 12'x5' Arch Culvert - Oak Tree near new Lake	EA	0	\$450,000	\$90,0		
22	Culvert - 12'x5' Arch Culvert and 48" Culvert - Oak Tree near Regional Park *	EA	0	\$525,000			
23	NID Box Culvert Expansion	EA	0	\$75 <i>,</i> 000			
24	Culvert - 12'x5.5' Arch Culvert - North South Collector near State Route 193	EA	0	\$400,000	:		
25	Culvert - 30" Culvert - Oak Tree Lane and South Ingram Slough East of No. So. Collector	EA	0	\$100,000			
26	Wetland Mitigation - Oak Tree Lane Overcrossing **	EA	0	\$300,000			
27	CLOMR and LOMR - Auburn Ravine next to Ferrari Ranch Road	JOB	0	\$80,000			
28	Retrofit Lake outlet and berm***	EA	0	\$1,000,000			
29	Grading	CY	0	\$4			
30	Auburn Ravine Bank Stabilization	SF	0	\$1			
31	Auburn Ravine Hydroseed	SF	0	\$0			
32	Auburn Ravine Armoring	SF	0	\$15			
33	Auburn Ravine Tree Planting	EA	0	\$100			

FRAYJI DESIGN GROUP

\*\* Estimated costs, actual cost will be developed in conjunction

\* Includes traffic control and demolition of existing culverts.

**Contingency Based upon Hard Costs (15%):** Soft Costs Contingency (17%):

\$13,500 \$15,300

with environmental consultant. \*\*\* Further consultation will be required with geotechnical and environmental consultants to determine actual cost to retrofit lake outfall, berm and wetland permit.

\$118,800 TOTAL DRAINAGE

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hase 3 O	ak Tree Lane 7 (V1R8)	Village 1 - Drainage Phase 3 Oak Tree Lane 7 (V1R8)					
tem #	Description	Unit	Quantity	Unit Price	Amount		
_							
	ainage System						
illage 1							
1	12" SD Line	LF	0	\$50	5		
2	15" SD Line	LF	0	\$60			
3	18" SD Line	LF	0	\$75			
4	24" SD Line	LF	0	\$85	5		
5	30" SD Line	LF	0	\$110	9		
6	36" SD Line	LF	0	\$125	, ,		
7	42" SD Line	LF	0	\$150			
8	48" SD Line	LF	0	\$180	9		
9	60" SD Line	LF	0	\$190	( 1		
10	Standard 48" SDMH (MH/400')	EA	0	\$4,250	(		
11	Trunk 60" SDMH (MH/400')	EA	0	\$8,500	(		
12	18" Culvert Extension	LF	0	\$125	( 1		
13	24" Culvert Extension	LF	0	\$150			
14	36" Culvert Extension	LF	0	\$225			
15	Headwall Retrofit	EA	0	\$12,500	5		
16	Drainage Inlet	EA	0	\$2,650	(		
17	Drainage Inlet and Retrofit Pipe	EA	0	\$5,000			
18	Grassy Swale	EA	0	\$5,000			
19	Stormwater Quality Basin	EA	0	\$25,000	5		
20	Outfall	LS	0	\$9,000			
21	Culvert - 12'x5' Arch Culvert - Oak Tree near new Lake	EA	0.2	\$450,000	\$90,00		
22	Culvert - 12'x5' Arch Culvert and 48" Culvert - Oak Tree near Regional Park *	EA	0	\$525,000			
23	NID Box Culvert Expansion	EA	0	\$75,000			
24	Culvert - 12'x5.5' Arch Culvert - North South Collector near State Route 193	EA	0	\$400,000	:		
25	Culvert - 30" Culvert - Oak Tree Lane and South Ingram Slough East of No. So. Collector	EA	0	\$100,000	:		
26	Wetland Mitigation - Oak Tree Lane Overcrossing **	EA	0	\$300,000			
27	CLOMR and LOMR - Auburn Ravine next to Ferrari Ranch Road	JOB	0	\$80,000			
28	Retrofit Lake outlet and berm***	EA	0	\$1,000,000			
29	Grading	CY	0	\$4			
30	Auburn Ravine Bank Stabilization	SF	0	\$1			
31	Auburn Ravine Hydroseed	SF	0	\$0			
32	Auburn Ravine Armoring	SF	0	\$15			
33	Auburn Ravine Tree Planting Construction Total:	EA	0	\$100			

\*\* Estimated costs, actual cost will be developed in conjunction

\* Includes traffic control and demolition of existing culverts.

**Contingency Based upon Hard Costs (15%):** \$13,500 Soft Costs Contingency (17%): \$15,300

with environmental consultant.

\*\*\* Further consultation will be required with geotechnical and environmental consultants to determine actual cost to retrofit lake outfall, berm and wetland permit.

\$118,800 TOTAL DRAINAGE

FE Phase	e 4 Summary				
tem #	Description	Unit	Quantity	Unit Price	Amount
	rainage System				
'illage 1					
1	12" SD Line	LF	0	\$50	¢
2	15" SD Line	LF	0	\$60	
3	18" SD Line	LF	0	\$75	
4	24" SD Line	LF	0	\$85	¢,
5	30" SD Line	LF	0	\$110	¢,
6	36" SD Line	LF	0	\$125	¢,
7	42" SD Line	LF	0	\$150	Ś
8	48" SD Line	LF	0	\$180	ć
9	60" SD Line	LF	0	\$190	ć
10	Standard 48" SDMH (MH/400')	EA	0	\$4,250	ć
11	Trunk 60" SDMH (MH/400')	EA	0	\$8,500	C Y
12	18" Culvert Extension	LF	0	\$125	Ċ
13	24" Culvert Extension	LF	0	\$150	0
14	36" Culvert Extension	LF	0	\$225	
15	Headwall Retrofit	EA	0	\$12,500	0
16	Drainage Inlet	EA	0	\$2,650	¢,
17	Drainage Inlet and Retrofit Pipe	EA	0	\$5,000	ć
18	Grassy Swale	EA	0	\$5,000	
19	Stormwater Quality Basin	EA	0	\$25,000	( 
20	Outfall	LS	0	\$9,000	
21	Culvert - 12'x5' Arch Culvert - Oak Tree near new Lake	EA	0	\$450,000	
22	Culvert - 12'x5' Arch Culvert and 48" Culvert - Oak Tree near Regional Park *	EA	0	\$525,000	
23	NID Box Culvert Expansion	EA	0	\$75,000	
24	Culvert - 12'x5.5' Arch Culvert - North South Collector near State Route 193	EA	0	\$400,000	:
25	Culvert - 30" Culvert - Oak Tree Lane and South Ingram Slough East of No. So. Collector	EA	0	\$100,000	
26	Wetland Mitigation - Oak Tree Lane Overcrossing **	EA	0	\$300,000	
27	CLOMR and LOMR - Auburn Ravine next to Ferrari Ranch Road	JOB	0	\$80,000	
28	Retrofit Lake outlet and berm***	EA	1	\$1,000,000	\$1,000,0
29	Grading	CY	0	\$4	
30	Auburn Ravine Bank Stabilization	SF	0	\$1	
31	Auburn Ravine Hydroseed	SF	0	\$0	
32	Auburn Ravine Armoring	SF	0	\$15	
33	Auburn Ravine Tree Planting	EA	0	\$100	

FRAYJI DESIGN GROUP

\* Includes traffic control and demolition of existing culverts.

**Contingency Based upon Hard Costs (15%):** Soft Costs Contingency (17%):

\$150,000 \$170,000

\*\* Estimated costs, actual cost will be developed in conjunction with environmental consultant.

\*\*\* Further consultation will be required with geotechnical and environmental consultants to determine actual cost to retrofit lake outfall, berm and wetland permit.

TOTAL DRAINAGE \$1,320,000

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Village 1 - Drainage PFE Phase 4 Drainage Basin (V1D1)						
Item #	Description	Unit	Quantity	Unit Price	Amount	
<u> </u>			<u> </u>			
Storm D	rainage System					
Village 1						
1	12" SD Line	LF	0	\$50	\$(	
2	15" SD Line	LF	0	\$60	\$(	
3	18" SD Line	LF	0	\$75	\$(	
4	24" SD Line	LF	0	\$85	\$(	
5	30" SD Line	LF	0	\$110	\$(	
6	36" SD Line	LF	0	\$125	\$(	
7	42" SD Line	LF	0	\$150	\$(	
8	48" SD Line	LF	0	\$180	\$(	
9	60" SD Line	LF	0	\$190	\$(	
10	Standard 48" SDMH (MH/400')	EA	0	\$4,250	\$(	
11	Trunk 60" SDMH (MH/400')	EA	0	\$8,500	\$(	
12	18" Culvert Extension	LF	0	\$125	\$(	
13	24" Culvert Extension	LF	0	\$150	\$(	
14	36" Culvert Extension	LF	0	\$225	\$(	
15	Headwall Retrofit	EA	0	\$12,500	\$(	
16	Drainage Inlet	EA	0	\$2,650	\$(	
17	Drainage Inlet and Retrofit Pipe	EA	0	\$5,000	\$(	
18	Grassy Swale	EA	0	\$5,000	\$(	
19	Stormwater Quality Basin	EA	0	\$25,000	\$(	
20	Outfall	LS	0	\$9,000	\$(	
21	Culvert - 12'x5' Arch Culvert - Oak Tree near new Lake	EA	0	\$450,000	\$(	
22	Culvert - 12'x5' Arch Culvert and 48" Culvert - Oak Tree near Regional Park *	EA	0	\$525,000	\$(	
23	NID Box Culvert Expansion	EA	0	\$75,000	\$(	
24	Culvert - 12'x5.5' Arch Culvert - North South Collector near State Route 193	EA	0	\$400,000	\$(	
25	Culvert - 30" Culvert - Oak Tree Lane and South Ingram Slough East of No. So. Collector	EA	0	\$100,000	\$(	
26	Wetland Mitigation - Oak Tree Lane Overcrossing **	EA	0	\$300,000	\$(	
27	CLOMR and LOMR - Auburn Ravine next to Ferrari Ranch Road	JOB	0	\$80,000	\$(	
28	Retrofit Lake outlet and berm***	EA	1	\$1,000,000	\$1,000,000	
29	Grading	CY	0	\$4	\$(	
30	Auburn Ravine Bank Stabilization	SF	0	\$1	\$(	
31	Auburn Ravine Hydroseed	SF	0	\$0	\$1	
32	Auburn Ravine Armoring	SF	0	\$15	ŞI	
33	Auburn Ravine Tree Planting	EA	0	\$100	\$(	

with environmental consultant.

\* Includes traffic control and demolition of existing culverts.

\*\* Estimated costs, actual cost will be developed in conjunction

\*\*\* Further consultation will be required with geotechnical and environmental consultants to determine actual cost to retrofit lake outfall, berm and wetland permit.

TOTAL DRAINAGE

\$150,000

\$170,000

Soft Costs Contingency (17%):

- \$1,320,000
- Contingency Based upon Hard Costs (15%):

## APPENDIX 15 Lincoln Village 1 Specific Plan Infrastructure Finance Plan Wastewater PFE Costs



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G	DESIGN GROU	Р

Item #	Description	Unit	Quantity	Unit Price	Amount
Sanitary	Sewer System				
Village 1					
1	10" SS Backbone Line	LF	0	\$65	\$
2	12" SS Backbone Line	LF	0	\$75	\$
3	15" SS Backbone Line	LF	0	\$100	\$
4	18" SS Backbone Line	LF	0	\$120	\$
5	24" SS Trunk Line	LF	680	\$165	\$112,20
6	12" SS Backbone Line (Required Improvement)	LF	680	-\$75	-\$51,00
7	30" SS Trunk Line	LF	2615	\$200	\$523,00
8	12" SS Backbone Line (Required Improvement)	LF	2615	-\$75	-\$196,20
9	Standard SSMH (MH/400')	EA	0	\$4,250	\$
10	Trunk SSMH (MH/400')	EA	8	\$8,500	\$68,00
11	Standard SSMH (MH/400' - Required Improvement)	EA	8	-\$4,250	-\$34,10
12	Sanitary Sewer Lift Station	EA	0	\$300,000	\$
13	Connection to Existing Transmission Main	EA	0	\$22,500	\$
14	Bore and Jack (Across Auburn Ravine)	LF	0	\$900	\$
	Construction Total:				\$421,90

Contingency Based upon Hard Costs (15%): \$63,200

Soft Costs Contingency (17%): \$71,700

> TOTAL SANITARY SEWER \$556,800



Item #	Description	Unit	Quantity	Unit Price	Amount
Sanitary S	Sewer System				
Village 1					
1	10" SS Backbone Line	LF	0	\$65	\$
2	12" SS Backbone Line	LF	0	\$75	\$
3	15" SS Backbone Line	LF	0	\$100	ç
4	18" SS Backbone Line	LF	0	\$120	ç
5	24" SS Trunk Line	LF	0	\$165	ć
6	12" SS Backbone Line (Required Improvement)	LF	0	-\$75	ć
7	30" SS Trunk Line	LF	2025	\$200	\$405,00
8	12" SS Backbone Line (Required Improvement)	LF	2025	-\$75	-\$151,90
9	Standard SSMH (MH/400')	EA	0	\$4,250	0
10	Trunk SSMH (MH/400')	EA	5	\$8,500	\$42,50
11	Standard SSMH (MH/400' - Required Improvement)	EA	5	-\$4,250	-\$21,30
12	Sanitary Sewer Lift Station	EA	0	\$300,000	
13	Connection to Existing Transmission Main	EA	0	\$22,500	C T
14	Bore and Jack (Across Auburn Ravine)	LF	0	\$900	
	Construction Total:				\$274,30

Contingency Based upon Hard Costs (15%): \$41,100

**Soft Costs Contingency (17%):** \$46,600

TOTAL SANITARY SEWER \$362,000

民	FRAY	JI
B	DESIGN GRO	UP

Item #	Description	Unit	Quantity	Unit Price	Amount
Sanitary	Sewer System				
/illage 1					
1	10" SS Backbone Line	LF	0	\$65	\$
2	12" SS Backbone Line	LF	0	\$75	\$
3	15" SS Backbone Line	LF	0	\$100	\$
4	18" SS Backbone Line	LF	0	\$120	ç
5	24" SS Trunk Line	LF	0	\$165	\$
6	12" SS Backbone Line (Required Improvement)	LF	0	\$200	ć
7	30" SS Trunk Line	LF	2025	\$200	\$405,00
8	12" SS Backbone Line (Required Improvement)	LF	2025	-\$75	-\$151,90
9	Standard SSMH (MH/400')	EA	0	\$4,250	ć
10	Trunk SSMH (MH/400')	EA	5	\$8,500	\$42,50
11	Standard SSMH (MH/400' - Required Improvement)	EA	5	-\$4,250	-\$21,30
12	Sanitary Sewer Lift Station	EA	0	\$300,000	ç
13	Connection to Existing Transmission Main	EA	0	\$22,500	ć
14	Bore and Jack (Across Auburn Ravine)	LF	0	\$900	

Contingency Based upon Hard Costs (15%): \$41,100

Soft Costs Contingency (17%): \$46,600

TOTAL SANITARY SEWER \$362,000



tem #	Description	Unit	Quantity	Unit Price	Amount
Sanitary S	Sewer System				
/illage 1					
1	10" SS Backbone Line	LF	0	\$65	\$
2	12" SS Backbone Line	LF	0	\$75	Ş
3	15" SS Backbone Line	LF	0	\$100	ç
4	18" SS Backbone Line	LF	0	\$120	ć
5	24" SS Trunk Line	LF	680	\$165	\$112,20
6	12" SS Backbone Line (Required Improvement)	LF	680	-\$75	-\$51,00
7	30" SS Trunk Line	LF	590	\$200	\$118,00
8	12" SS Backbone Line (Required Improvement)	LF	590	-\$75	-\$44,30
9	Standard SSMH (MH/400')	EA	0	\$4,250	0
10	Trunk SSMH (MH/400')	EA	3	\$8,500	\$25,50
11	Standard SSMH (MH/400' - Required Improvement)	EA	3	-\$4,250	-\$12,80
12	Sanitary Sewer Lift Station	EA	0	\$300,000	0
13	Connection to Existing Transmission Main	EA	0	\$22,500	,
14	Bore and Jack (Across Auburn Ravine)	LF	0	\$900	

Contingency Based upon Hard Costs (15%): \$22,100

Soft Costs Contingency (17%): \$25,100

TOTAL SANITARY SEWER \$194,800

民	FRAY	JI
B	DESIGN GRO	UP

ltem #	Description	Unit	Quantity	Unit Price	Amount
Sanitary	Sewer System				
/illage 1					
1	10" SS Backbone Line	LF	0	\$65	\$
2	12" SS Backbone Line	LF	0	\$75	\$
3	15" SS Backbone Line	LF	0	\$100	ć
4	18" SS Backbone Line	LF	0	\$120	ć
5	24" SS Trunk Line	LF	0	\$165	ç
6	12" SS Backbone Line (Required Improvement)	LF	0	-\$75	ç
7	30" SS Trunk Line	LF	590	\$200	\$118,00
8	12" SS Backbone Line (Required Improvement)	LF	590	-\$75	-\$44,30
9	Standard SSMH (MH/400')	EA	0	\$4,250	ç
10	Trunk SSMH (MH/400')	EA	1	\$8,500	\$8,50
11	Standard SSMH (MH/400' - Required Improvement)	EA	1	-\$4,250	-\$4,30
12	Sanitary Sewer Lift Station	EA	0	\$300,000	¢
13	Connection to Existing Transmission Main	EA	0	\$22,500	Ś
14	Bore and Jack (Across Auburn Ravine)	LF	0	\$900	

Contingency Based upon Hard Costs (15%): \$11,600

Soft Costs Contingency (17%): \$13,300

TOTAL SANITARY SEWER \$102,800

民	FRAY	JI
B	DESIGN GRO	UP

Item #	Description	Unit	Quantity	Unit Price	Amount
Sanitary	Sewer System				
/illage 1					
1	10" SS Backbone Line	LF	0	\$65	\$
2	12" SS Backbone Line	LF	0	\$75	\$
3	15" SS Backbone Line	LF	0	\$100	\$
4	18" SS Backbone Line	LF	0	\$120	\$
5	24" SS Trunk Line	LF	680	\$165	\$112,20
6	12" SS Backbone Line (Required Improvement)	LF	680	-\$75	-\$51,00
7	30" SS Trunk Line	LF	0	\$200	ç
8	12" SS Backbone Line (Required Improvement)	LF	0	-\$75	ç
9	Standard SSMH (MH/400')	EA	0	\$4,250	ć
10	Trunk SSMH (MH/400')	EA	2	\$8,500	\$17,00
11	Standard SSMH (MH/400' - Required Improvement)	EA	2	-\$4,250	-\$8,50
12	Sanitary Sewer Lift Station	EA	0	\$300,000	ç
13	Connection to Existing Transmission Main	EA	0	\$22,500	ć
14	Bore and Jack (Across Auburn Ravine)	LF	0	\$900	

Contingency Based upon Hard Costs (15%): \$10,500

Soft Costs Contingency (17%): \$11,800

TOTAL SANITARY SEWER \$92,000

£	FRAY	-
	DESIGN GRO	UP

PFE Summ Item #	Description	Unit	Quantity	Unit Price	Amount
	Description		Quantity	Unit Frice	Amount
Sanitary	Sewer System				
Village 1					
1	10" SS Backbone Line	LF	0	\$65	\$(
2	12" SS Backbone Line	LF	0	\$75	\$1
3	15" SS Backbone Line	LF	0	\$100	\$(
4	18" SS Backbone Line	LF	0	\$120	\$1
5	24" SS Trunk Line	LF	1790	\$165	\$295,400
7	30" SS Trunk Line	LF	0	\$200	\$(
9	Standard SSMH (MH/400')	EA	0	\$4,250	\$(
10	Trunk SSMH (MH/400')	EA	4	\$8,500	\$34,000
12	Sanitary Sewer Lift Station	EA	0	\$300,000	\$(
13	Connection to Existing Transmission Main	EA	0	\$22,500	\$1
14	Bore and Jack (Across Auburn Ravine)	LF	0	\$900	\$(

Construction Total:

Contingency Based upon Hard Costs (15%): \$49,400

Soft Costs Contingency (17%): \$56,000

\$329,400

TOTAL SANITARY SEWER \$434,800

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民	FRAY	II
C	DESIGN GRO	UP

ltem #	Description	Unit	Quantity	Unit Price	Amount
Sanitary	Sewer System				
Village 1					
1	10" SS Backbone Line	LF	0	\$65	\$
2	12" SS Backbone Line	LF	0	\$75	\$
3	15" SS Backbone Line	LF	0	\$100	\$
4	18" SS Backbone Line	LF	0	\$120	\$
5	24" SS Trunk Line	LF	1790	\$165	\$295,40
6	30" SS Trunk Line	LF	0	\$200	\$
7	Standard SSMH (MH/400')	EA	0	\$4,250	ç
8	Trunk SSMH (MH/400')	EA	4	\$8,500	\$34,00
9	Sanitary Sewer Lift Station	EA	0	\$300,000	\$
10	Connection to Existing Transmission Main	EA	0	\$22,500	ç
11	Bore and Jack (Across Auburn Ravine)	LF	0	\$900	Ş
	Construction Total	:	- -		\$329,40

Contingency Based upon Hard Costs (15%): \$49,400

Soft Costs Contingency (17%): \$56,000

TOTAL SANITARY SEWER \$434,800

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Item #	Description	Unit	Quantity	Unit Price	Amount
	• •				
Sanitary	Sewer System				
Village 1					
1	10" SS Backbone Line	LF	0	\$65	\$
2	12" SS Backbone Line	LF	0	\$75	\$
3	15" SS Backbone Line	LF	0	\$100	\$
4	18" SS Backbone Line	LF	0	\$120	\$
5	24" SS Trunk Line	LF	1790	\$165	\$295,40
6	30" SS Trunk Line	LF	0	\$200	\$
7	Standard SSMH (MH/400')	EA	0	\$4,250	\$
8	Trunk SSMH (MH/400')	EA	4	\$8,500	\$34,00
9	Sanitary Sewer Lift Station	EA	0	\$300,000	\$
10	Connection to Existing Transmission Main	EA	0	\$22,500	\$
11	Bore and Jack (Across Auburn Ravine)	LF	0	\$900	\$
	Construction Total:				\$329,40

Contingency Based upon Hard Costs (15%): \$49,400

Soft Costs Contingency (17%): \$56,000

TOTAL SANITARY SEWER \$434,800

## APPENDIX 16 Lincoln Village 1 Specific Plan Infrastructure Finance Plan Roadway System PFE Costs



民	FRAYJI DESIGN GROUP
G	DESIGN GROUP

Village 1 - Backbone Roadway System PFE Credit Summary						
Item #	Description	Unit	Quantity	Unit Price	Amount	
Backbo	ne Roadway System					
1	Mobilization	JOB	0	\$50,000.00	\$10,00	
2	Excavation	CY	4856	\$30,000.00	\$10,00	
3	4" AB (Under Curb & Gutter and Sidewalk)	SF	16020	\$1.80	\$28,80	
4	16" AB (assumes a Traffic Index of 9)	SF	101349	\$2.25	\$228,00	
5	5" AC (assumes a Traffic Index of 9)	SF	101349	\$2.70	\$273,60	
6	18" AB (assumes a Traffic Index of 11)	SF	65562	\$2.50	\$163,90	
7	7" AC (assumes a Traffic Index of 11)	SF	65562	\$4.00	\$262,20	
8	Decomposed Granite Trail (4' width, 4" thick)	SF	0	\$1.80	\$	
9	4" AB Shoulder (2' width)	SF	0	\$1.20	Ś	
10	Subgrade Street Prep (Street)	SF	166911	\$0.25	\$41,70	
11	Subgrade Prep (Curb & Gutter)	SF	16020	\$0.30	\$4,80	
12	Subgrade Prep (AB Shoulder)	SF	0	\$0.30	\$	
13	Subgrade Prep (DG Trail)	SF	0	\$0.30	\$	
14	Signing and Striping (36' ROW)*	LF	5863	\$15.00	\$87,90	
15	Traffic Signals	EA	2	\$320,000.00	\$640,00	
16	Future Traffic Signal	EA	0	\$275,000.00	\$	
17	Signalized Intersection	EA	0	\$900,000.00	\$	
18	Sidewalk, Concrete	SF	10680	\$6.00	\$64,10	
19	Roundabout	EA	0	\$100,000.00	Ś	
20	Joint Trench	LF	890	\$115.00	\$102,40	
21	Underground Existing Utilities in Joint Trench	LF	0	\$360.00	ç	
22	Type 5 Curb Median	LF	1780	\$12.00	\$21,40	
23	Median Landscaping	SF	10680	\$4.50	\$48,10	
24	Frontage Landscaping	SF	0	\$4.50	ç	
25	Signal Conduit and Wiring	EA	0	\$75,000.00	ç	
26	Curb and Gutter	LF	1780	\$27.00	\$48,10	
27	AC Driveway (Per Approx. 12' wide)	EA	0	\$960.00	ç	
28	Irrigation Sleeves	LF	0	\$15.00	ç	
29	Street Lights (every 150 LF)	EA	6	\$6,000.00	\$36,00	
30	Sawcut and Pavement Removal Median	LF	0	\$20.00	¢	
31	Sawcut and Pavement Removal	LF	0	\$3.00	ç	
32	Reconstruct Ditches	LF	0	\$3.00	\$	
33	Erosion Control	LF	1780	\$25.00	\$44,50	
34	ROW Acquisition (Ferrari Ranch Road) **	LS	0	\$100,000.00	\$	
35	ROW Acquisition (Oak Tree Lane - North) **	LS	0	\$500,000.00	\$	
36	ROW Acquisition (Oak Tree Lane - South) ***	LS	0	\$50,000.00	ç	
37	Grind and Remove Pavement	SF	0	\$3.00	\$	
38	Grind and Overlay	SF	5235	\$2.00	\$10,50	
39	Retrofit Utilities	EA	0	\$3,000.00	¢	
40	Dewatering - Ferrari Ranch Road	EA EA	0	\$25,000.00	ç	
41	Dewatering - Oak Tree near So. Ingram Slough			\$50,000.00	\$	
42	Dewatering - Oak Tree near new lake	EA LF	0	\$75,000.00	ç	
43	Golf Course Fence and Netting		0	\$133.00	¢	
44	Split Rail Fencing	JOB	0	\$45.00		
45	FRR Supplemental Topo + Aerial Topo		0	\$12,500.00	ç	
46	Remediation Trench and Monitoring	JOB	0	\$1,000,000.00	¢	
47	Traffic Control	JOB JOB	0	\$100,000.00	, , ,	
48	Traffic Control Oak Tree Lane	EA	0	\$250,000.00	\$ \$	
49	Bridge (at Auburn Ravine on Oak Tree Lane) Construction Total:	EA	0	\$5,500,000.00	\$2,150,00	

\* Cost per linear foot of roadway.

## Contingency Based upon Hard Costs (15%): \$322,500 Soft Costs Contingency (17%): \$365,500

\*\* ROW Acquisition includes mapping, purchasing the land,

\*\*\* ROW Acquisition includes mapping.

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ltem #	Phase 1 Summary Description	Unit	Quantity	Unit Price	Amount
	Description	Unit	Quantity	Unit Frice	Amount
Backhon	e Roadway System				
Dackboll	e Roadway System				
1	Mobilization	JOB	0	\$50,000.00	\$10,0
2	Excavation	CY	4856	\$30,000.00	\$10,0
3	4" AB (Under Curb & Gutter and Sidewalk)	SF	16020	\$1.80	\$28,
4	16" AB (assumes a Traffic Index of 9)	SF	101349	\$2.25	\$228,
5	5" AC (assumes a Traffic Index of 9)	SF	101349	\$2.70	\$273,
6	18" AB (assumes a Traffic Index of 11)	SF	65562	\$2.50	\$163,
7	7" AC (assumes a Traffic Index of 11)	SF	65562	\$4.00	\$262,
8	Decomposed Granite Trail (4' width, 4" thick)	SF	0	\$1.80	1 - /
9	4" AB Shoulder (2' width)	SF	0	\$1.20	
10	Subgrade Street Prep (Street)	SF	166911	\$0.25	\$41,
11	Subgrade Prep (Curb & Gutter)	SF	16020	\$0.30	\$4,
12	Subgrade Prep (AB Shoulder)	SF	0	\$0.30	
13	Subgrade Prep (DG Trail)	SF	0	\$0.30	
14	Signing and Striping (36' ROW)*	LF	5863	\$15.00	\$87,
15	Traffic Signals	EA	2	\$320,000.00	\$640,
16	Future Traffic Signal	EA	0	\$275,000.00	
17	Signalized Intersection	EA	0	\$900,000.00	
18	Sidewalk, Concrete	SF	10680	\$6.00	\$64,
19	Roundabout	EA	0	\$100,000.00	
20	Joint Trench	LF	890	\$115.00	\$102 <i>,</i>
21	Underground Existing Utilities in Joint Trench	LF	0	\$360.00	
22	Type 5 Curb Median	LF	1780	\$12.00	\$21,·
23	Median Landscaping	SF	10680	\$4.50	\$48,
24	Frontage Landscaping	SF	0	\$4.50	
25	Signal Conduit and Wiring	EA	0	\$75,000.00	
26	Curb and Gutter	LF	1780	\$27.00	\$48,
27	AC Driveway (Per Approx. 12' wide)	EA	0	\$960.00	
28	Irrigation Sleeves	LF	0	\$15.00	4
29	Street Lights (every 150 LF)	EA	6	\$6,000.00	\$36,
30	Sawcut and Pavement Removal Median	LF	0	\$20.00	
31	Sawcut and Pavement Removal	LF	0	\$3.00	
32	Reconstruct Ditches	LF	0	\$3.00	***
33	Erosion Control	LF	1780	\$25.00	\$44,
34	ROW Acquisition (Ferrari Ranch Road) ** ROW Acquisition (Oak Tree Lane) **	LS	0	\$100,000.00	
35		LS LS	0	\$500,000.00 \$50,000.00	
36	ROW Acquisition (Oak Tree Lane - South) *** Grind and Remove Pavement	SF	0	. ,	
37	Grind and Overlay	SF	5235	\$3.00 \$2.00	\$10,
38 39	Retrofit Utilities	EA	0	\$2.00	Ş10,
40	Dewatering - Ferrari Ranch Road	EA	0	\$25,000.00	
40	Dewatering - Oak Tree near So. Ingram Slough	EA	0		
41 42	Dewatering - Oak Tree near So. Ingram Slougn Dewatering - Oak Tree near new lake	EA	0	\$50,000.00 \$75,000.00	
42	Golf Course Fence and Netting	LF	0	\$133.00	
43	Split Rail Fencing	LF	0	\$153.00	
44	FRR Supplemental Topo + Aerial Topo	JOB	0	\$45.00	
45	Remediation Trench and Monitoring	JOB	0	\$1,000,000.00	
40	Traffic Control	JOB	0	\$100,000.00	
47	Traffic Control Oak Tree Lane	JOB	0	\$250,000.00	
48	Bridge (at Auburn Ravine on Oak Tree Lane)	EA	0	\$5,500,000.00	
- I	Construction Total:		0	, = , = = = , = = 5100	\$2,150,

\* Cost per linear foot of roadway.

\*\* ROW Acquisition includes mapping, purchasing the land,

 Soft Costs Contingency (17%):
 \$322,500

 \$365,500
 \$365,500

\*\*\* ROW Acquisition includes mapping.

TOTAL CIRCULATION \$2,838,000

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