

***Appendix H***  
***Alternative Costs***

Homer Intersections Planning Study					
Sterling Highway and Pioneer Avenue Roundabout					
10/25/2005 15:59					
Work	Quantity	Unit	Unit Cost	Total Cost	Remarks
<b>REMOVALS</b>					
Remove Existing Curb	630	LF	\$9 00	\$5,670	
Unclassified Excavation	3900	CY	\$12 00	\$46,800	
Remove parking meters	0	EA	\$250 00	\$0	
Remove Existing Guardrail	0	LF	\$3 00	\$0	
Remove Existing Pavement	2150	SY	\$8 00	\$17,200	
Remove Sidewalk	720	SY	\$7.00	\$5,040	
<b>INSTALLATIONS</b>					
Fill Material (Subgrade, Borrow A)	3900	Ton	\$20 00	\$78,000	
Asphalt	430	Ton	\$120 00	\$51,600	
Base Course	430	Ton	\$35 00	\$15,050	
Sidewalk / Pathway	800	LF	\$30 00	\$24,000	
Curb & Gutter	1850	LF	\$20 00	\$37,000	
Curb Ramp	6	EA	\$900 00	\$5,400	
Concrete Apron	450	SY	\$90 00	\$40,500	
Culvert, 24"	100	LF	\$45 00	\$4,500	
Inlet	3	EA	\$3,000.00	\$9,000	
<b>TRAFFIC CONTROL</b>					
Retaining Wall	300	SF	\$150 00	\$45,000	
Relocated Signal Pole, Foundation	0	EA	\$5,000 00	\$0	
Relocated Electroliers	0	EA	\$3,000 00	\$0	
New Electrolier	4	EA	\$10,000 00	\$40,000	
New Load Center	1	EA	\$7,000 00	\$7,000	
Relocated Controller/Foundations	0	EA	\$7,500 00	\$0	
New Controller/Foundation	0	EA	\$25,000 00	\$0	
Relocate Traffic Structure Support	0	EA	\$50,000 00	\$0	
New Junction Boxes	0	EA	\$1,100 00	\$0	
Loop Detectors	0	EA	\$1,200 00	\$0	
New Traffic Signal Wiring	0	EA	\$7,500 00	\$0	
New Signal Pole, Heads, Signs	0	EA	\$35,000 00	\$0	
New Conduit w/wiring	0	LF	\$30 00	\$0	
Remove Pole & Foundation	0	EA	\$2,000 00	\$0	
Signing	27	EA	\$800 00	\$21,600	
Striping	1000	LF	\$2 00	\$2,000	
Preformed Symbols	12	EA	\$600 00	\$7,200	
<b>OTHER</b>					
Erosion/Pollution Control		LS	All Req'd	\$4,630	1% of pay items
Field Office		LS	All Req'd	\$0	
Traffic Maintenance		LS	All Req'd	\$69,380	15% of pay items
Construction Surveying		LS	All Req'd	\$27,750	6% of pay items
Mobilization/Demobilization		LS	All Req'd	\$60,130	13% of pay items
<b>CONSTRUCTION CONTRACT COST</b>			Subtotal	\$624,450	
<b>UTILITIES</b>					
Utility Preliminary Design	1	LS	All Req'd	\$5,000	
Gas Line Relocate	0	LS	\$1,500 00	\$0	
Underground Telephone Relocate	0	LS	\$3,500 00	\$0	
Underground Cable Relocate	300	LF	\$100 00	\$30,000	
Underground Electric Relocate	0	LF	\$5 10	\$0	
Hydrant Relocate	0	EA	\$15,000 00	\$0	
Sewerline Relocate	0	LF	\$150 00	\$0	
Overhead Electric Relocate	2	LS	\$50,000.00	\$100,000	
			Utilities Subtotal	\$135,000	
<b>COST ESTIMATE SUMMARY</b>					
Reconnaissance Study		LS	All Req'd	\$0	
Preliminary Design		LS	All Req'd	\$62,000	
Right-of-Way	1	LS	\$600,000 00	\$600,000	
Utilities		LS	All Req'd	\$135,000	
Construction		LS		\$624,000	
Contract Administration		LS	@ 15%	\$204,000	
ICAP		LS	@ 5 5% of all		
Intersection:					
Sterling Highway and Pioneer Avenue Roundabout			<b>Total:</b>	<b>\$1,868,750</b>	Est Design/Construction Costs (Includes 15% Contingency)

Homer Intersections Planning Study					
Sterling Highway and Pioneer Avenue Signalization					
10/25/2005 15:59					
Work	Quantity	Unit	Unit Cost	Total Cost	Remarks
<b>REMOVALS</b>					
Remove Existing Curb	340	LF	\$9.00	\$3,060	
Unclassified Excavation	420	CY	\$12.00	\$5,040	
Remove parking meters	0	EA	\$250.00	\$0	
Remove Existing Guardrail	0	LF	\$3.00	\$0	
Remove Existing Pavement	20	SY	\$8.00	\$160	
Remove Sidewalk	190	SY	\$7.00	\$1,330	
<b>INSTALLATIONS</b>					
Fill Material (Subgrade, Borrow A)	450	Ton	\$20.00	\$9,000	
Asphalt	110	Ton	\$120.00	\$13,200	
Base Course	110	Ton	\$35.00	\$3,850	
Sidewalk / Pathway	300	LF	\$30.00	\$9,000	
Curb & Gutter	640	LF	\$20.00	\$12,800	
Curb Ramp	6	EA	\$900.00	\$5,400	
End Section	0	EA	\$500.00	\$0	
Culvert, 24"	20	LF	\$45.00	\$900	
Inlet	1	EA	\$3,000.00	\$3,000	
<b>TRAFFIC CONTROL</b>					
Relocated Signal Pole, Foundation	0	EA	\$5,000.00	\$0	
Relocated Electroliers	1	EA	\$3,000.00	\$3,000	
New Electrolier	0	EA	\$10,000.00	\$0	
New Load Center	1	EA	\$7,000.00	\$7,000	
Relocated Controller/Foundations	0	EA	\$7,500.00	\$0	
New Controller/Foundation	1	EA	\$25,000.00	\$25,000	
Relocate Traffic Structure Support	0	EA	\$50,000.00	\$0	
New Junction Boxes	13	EA	\$1,100.00	\$14,300	
Loop Detectors	23	EA	\$1,200.00	\$27,600	
New Traffic Signal Wiring	1	EA	\$7,500.00	\$7,500	
New Signal Pole, Heads, Signs	4	EA	\$35,000.00	\$140,000	
New Conduit w/wiring	2000	LF	\$30.00	\$60,000	
Remove Pole & Foundation	0	EA	\$2,000.00	\$0	
Signing	8	EA	\$800.00	\$6,400	
Striping	1000	LF	\$2.00	\$2,000	
Preformed Symbols	8	EA	\$600.00	\$4,800	
<b>OTHER</b>					
Erosion/Pollution Control		LS	All Req'd	\$3,640	1% of pay items
Field Office		LS	All Req'd	\$0	
Traffic Maintenance		LS	All Req'd	\$54,650	15% of pay items
Construction Surveying		LS	All Req'd	\$21,860	6% of pay items
Mobilization/Demobilization		LS	All Req'd	\$47,360	13% of pay items
<b>CONSTRUCTION CONTRACT COST</b>			Subtotal	\$491,850	
<b>UTILITIES</b>					
Utility Preliminary Design	1	LS	All Req'd	\$5,000	
Gas Line Relocate	0	LS	\$1,500.00	\$0	
Underground Telephone Relocate	0	LS	\$3,500.00	\$0	
Underground Electric Relocate	0	LF	\$5.10	\$0	
Hydrant Relocate	0	EA	\$15,000.00	\$0	
Sewerline Relocate	0	LF	\$150.00	\$0	
Overhead Electric Relocate	1	LS	\$50,000.00	\$50,000	
			Utilities Subtotal	\$55,000	
<b>COST ESTIMATE SUMMARY</b>					
Reconnaissance Study		LS	All Req'd	\$0	
Preliminary Design		LS	All Req'd	\$49,000	
Right-of-Way	1	LS	\$15,000.00	\$15,000	
Utilities		LS	All Req'd	\$55,000	
Construction		LS		\$492,000	
Contract Administration		LS	' @ 15%	\$84,000	
ICAP		LS	@ 5.5% of all		
Intersection:					
Sterling Highway and Pioneer Avenue Signalization			<b>Total:</b>	<b>\$799,250</b>	Est Design/Construction Costs (Includes 15% Contingency)

Homer Intersections Planning Study					
Sterling Highway and Main Street Roundabout					
10/25/2005 15:59					
Work	Quantity	Unit	Unit Cost	Total Cost	Remarks
<b>REMOVALS</b>					
Remove Existing Curb	800	LF	\$9 00	\$7,200	
Unclassified Excavation	4150	CY	\$12 00	\$49,800	
Remove parking meters	0	EA	\$250 00	\$0	
Remove Existing Guardrail	0	LF	\$3 00	\$0	
Remove Existing Pavement	2800	SY	\$8 00	\$22,400	
Remove Sidewalk	320	SY	\$7.00	\$2,240	
<b>INSTALLATIONS</b>					
Retaining Wall	3000	SF	\$150 00	\$450,000	
Fill Material (Subgrade, Borrow A)	4150	Ton	\$20 00	\$83,000	
Asphalt	775	Ton	\$120 00	\$93,000	
Base Course	775	Ton	\$35 00	\$27,130	
Sidewalk / Pathway	800	LF	\$30 00	\$24,000	
Curb & Gutter	1850	LF	\$20 00	\$37,000	
Curb Ramp	8	EA	\$900 00	\$7,200	
Concrete Apron	450	SY	\$90 00	\$40,500	
Culvert, 24"	200	LF	\$45 00	\$9,000	
Inlet	6	EA	\$3,000.00	\$18,000	
<b>TRAFFIC CONTROL</b>					
Relocated Signal Pole, Foundation	0	EA	\$5,000 00	\$0	
Relocated Electroliers	0	EA	\$3,000 00	\$0	
New Electrolier	4	EA	\$10,000 00	\$40,000	
New Load Center	0	EA	\$7,000 00	\$0	
Relocated Controller/Foundations	0	EA	\$7,500 00	\$0	
New Controller/Foundation	0	EA	\$25,000 00	\$0	
Relocate Traffic Structure Support	0	EA	\$50,000 00	\$0	
New Junction Boxes	0	EA	\$1,100 00	\$0	
Loop Detectors	0	EA	\$1,200 00	\$0	
New Traffic Signal Wiring	0	EA	\$7,500 00	\$0	
New Signal Pole, Heads, Signs	0	EA	\$35,000 00	\$0	
New Conduit w/wiring	0	LF	\$30 00	\$0	
Remove Pole & Foundation	0	EA	\$2,000 00	\$0	
Signing	36	EA	\$400 00	\$14,400	
Striping	1000	LF	\$2 00	\$2,000	
Preformed Symbols	16	EA	\$600 00	\$9,600	
<b>OTHER</b>					
Erosion/Pollution Control		LS	All Req'd	\$9,360	1% of pay items
Field Office		LS	All Req'd	\$0	
Traffic Maintenance		LS	All Req'd	\$140,470	15% of pay items
Construction Surveying		LS	All Req'd	\$56,190	6% of pay items
Mobilization/Demobilization		LS	All Req'd	\$121,740	13% of pay items
<b>CONSTRUCTION CONTRACT COST</b>			Subtotal	\$1,264,230	
<b>UTILITIES</b>					
Utility Preliminary Design	1	LS	All Req'd	\$7,500	
Gas Line Relocate	0	LS	\$1,500 00	\$0	
Underground Telephone Relocate	1	LS	\$20,000 00	\$20,000	
Underground Electric Relocate	0	LF	\$5 10	\$0	
Hydrant Relocate	0	EA	\$15,000 00	\$0	
Sewerline Relocate	0	LF	\$150 00	\$0	
Overhead Electric Relocate	2	LS	\$50,000.00	\$100,000	
			Utilities Subtotal	\$127,500	
<b>COST ESTIMATE SUMMARY</b>					
Reconnaissance Study		LS	All Req'd	\$0	
Preliminary Design		LS	All Req'd	\$126,000	
Right-of-Way	1	LS	\$200,000 00	\$200,000	
Utilities		LS	All Req'd	\$127,500	
Construction		LS		\$1,264,000	
Contract Administration		LS	@ 15%	\$239,000	
ICAP		LS	@ 5 5% of all		
Intersection:					
Sterling Highway and Main Street Roundabout			<b>Total:</b>	<b>\$2,249,975</b>	Est Design/Construction Costs (Includes 15% Contingency)

Homer Intersections Planning Study					
Sterling Highway and Main Street Signalization					
10/25/2005 15:59					
Work	Quantity	Unit	Unit Cost	Total Cost	Remarks
<b>REMOVALS</b>					
Remove Existing Curb	920	LF	\$9 00	\$8,280	
Unclassified Excavation	30	CY	\$12 00	\$360	
Remove parking meters	0	EA	\$250 00	\$0	
Remove Existing Guardrail	0	LF	\$3 00	\$0	
Remove Existing Pavement	400	SY	\$8 00	\$3,200	
Remove Sidewalk	230	SY	\$7.00	\$1,610	
<b>INSTALLATIONS</b>					
Retaining Wall	0	SF	\$75 00	\$0	
Fill Material (Subgrade, Borrow A)	30	Ton	\$20 00	\$600	
Asphalt	40	Ton	\$120 00	\$4,800	
Base Course	0	Ton	\$35 00	\$0	
Sidewalk / Pathway	200	LF	\$30 00	\$6,000	
Curb & Gutter	920	LF	\$20 00	\$18,400	
Curb Ramp	8	EA	\$900 00	\$7,200	
End Section	0	EA	\$500 00	\$0	
Culvert, 24"	0	LF	\$45 00	\$0	
Inlet	0	EA	\$3,000.00	\$0	
<b>TRAFFIC CONTROL</b>					
Relocated Signal Pole, Foundation	0	EA	\$5,000 00	\$0	
Relocated Electroliers	0	EA	\$3,000 00	\$0	
New Electrolier	0	EA	\$10,000 00	\$0	
New Load Center	1	EA	\$7,000 00	\$7,000	
Relocated Controller/Foundations	0	EA	\$7,500 00	\$0	
New Controller/Foundation	1	EA	\$25,000 00	\$25,000	
Relocate Traffic Structure Support	0	EA	\$50,000 00	\$0	
New Junction Boxes	16	EA	\$1,100 00	\$17,600	
Loop Detectors	28	EA	\$1,200 00	\$33,600	
New Traffic Signal Wiring	1	EA	\$7,500 00	\$7,500	
New Signal Pole, Heads, Signs	4	EA	\$35,000 00	\$140,000	
New Conduit w/wiring	1500	LF	\$30 00	\$45,000	
Remove Pole & Foundation	0	EA	\$2,000 00	\$0	
Signing	8	EA	\$800 00	\$6,400	
Striping	1000	LF	\$2 00	\$2,000	
Performed Symbols	8	EA	\$600 00	\$4,800	
<b>OTHER</b>					
Erosion/Pollution Control		LS	All Req'd	\$3,390	1% of pay items
Field Office		LS	All Req'd	\$0	
Traffic Maintenance		LS	All Req'd	\$50,900	15% of pay items
Construction Surveying		LS	All Req'd	\$20,360	6% of pay items
Mobilization/Demobilization		LS	All Req'd	\$44,120	13% of pay items
<b>CONSTRUCTION CONTRACT COST</b>			Subtotal	\$458,120	
<b>UTILITIES</b>					
Utility Preliminary Design	0	LS	All Req'd	\$0	
Gas Line Relocate	0	LS	\$1,500 00	\$0	
Underground Telephone Relocate	0	LS	\$3,500 00	\$0	
Underground Electric Relocate	0	LF	\$5 10	\$0	
Hydrant Relocate	0	EA	\$15,000 00	\$0	
Sewerline Relocate	0	LF	\$150 00	\$0	
Overhead Electric Relocate	0	LS	\$75,000.00	\$0	
			Utilities Subtotal	\$0	
<b>COST ESTIMATE SUMMARY</b>					
Reconnaissance Study		LS	All Req'd	\$0	
Preliminary Design		LS	All Req'd	\$46,000	
Right-of-Way	1	LS	\$1,800 00	\$1,800	
Utilities		LS	All Req'd	\$0	
Construction		LS		\$458,000	
Contract Administration		LS	@ 15%	\$69,000	
ICAP		LS	@ 5.5% of all		
Intersection:					
Sterling Highway and Main Street Signalization			<b>Total:</b>	<b>\$661,020</b>	Est. Design/Construction Costs (Includes 15% Contingency)

Homer Intersections Planning Study					
Sterling Highway and Heath Street Roundabout					
10/25/2005 15:59					
Work	Quantity	Unit	Unit Cost	Total Cost	Remarks
<b>REMOVALS</b>					
Remove Existing Curb	700	LF	\$9 00	\$6,300	
Unclassified Excavation	4150	CY	\$12 00	\$49,800	
Remove parking meters	0	EA	\$250 00	\$0	
Remove Existing Guardrail	0	LF	\$3 00	\$0	
Remove Existing Pavement	2000	SY	\$8 00	\$16,000	
Remove Sidewalk	300	SY	\$7.00	\$2,100	
<b>INSTALLATIONS</b>					
Retaining Wall	1000	SF	\$150 00	\$150,000	
Fill Material (Subgrade, Borrow A)	4150	Ton	\$20 00	\$83,000	
Asphalt	775	Ton	\$120 00	\$93,000	
Base Course	775	Ton	\$35 00	\$27,130	
Sidewalk / Pathway	800	LF	\$30 00	\$24,000	
Curb & Gutter	1850	LF	\$20 00	\$37,000	
Curb Ramp	8	EA	\$900 00	\$7,200	
Concrete Apron	450	SY	\$90 00	\$40,500	
Culvert, 24"	200	LF	\$45 00	\$9,000	
Inlet	2	EA	\$3,000.00	\$6,000	
<b>TRAFFIC CONTROL</b>					
Relocated Signal Pole, Foundation	0	EA	\$5,000 00	\$0	
Relocated Electroliers	0	EA	\$3,000 00	\$0	
New Electrolier	4	EA	\$10,000 00	\$40,000	
New Load Center	0	EA	\$7,000 00	\$0	
Relocated Controller/Foundations	0	EA	\$7,500 00	\$0	
New Controller/Foundation	0	EA	\$25,000 00	\$0	
Relocate Traffic Structure Support	0	EA	\$50,000 00	\$0	
New Junction Boxes	0	EA	\$1,100 00	\$0	
Loop Detectors	0	EA	\$1,200 00	\$0	
New Traffic Signal Wiring	0	EA	\$7,500 00	\$0	
New Signal Pole, Heads, Signs	0	EA	\$35,000 00	\$0	
New Conduit w/wiring	0	LF	\$30 00	\$0	
Remove Pole & Foundation	0	EA	\$2,000 00	\$0	
Signing	36	EA	\$400 00	\$14,400	
Striping	1000	LF	\$2 00	\$2,000	
Performed Symbols	16	EA	\$600 00	\$9,600	
<b>OTHER</b>					
Erosion/Pollution Control		LS	All Req'd	\$6,170	1% of pay items
Field Office		LS	All Req'd	\$0	
Traffic Maintenance		LS	All Req'd	\$92,550	15% of pay items
Construction Surveying		LS	All Req'd	\$37,020	6% of pay items
Mobilization/Demobilization		LS	All Req'd	\$80,210	13% of pay items
<b>CONSTRUCTION CONTRACT COST</b>			Subtotal	\$832,980	
<b>UTILITIES</b>					
Utility Preliminary Design	0	LS	All Req'd		
Gas Line Relocate	0	LS	\$1,500 00	\$0	
Underground Telephone Relocate	1	LS	\$40,000 00	\$40,000	
Underground Electric Relocate	0	LF	\$5 10	\$0	
Hydrant Relocate	0	EA	\$15,000 00	\$0	
Sewerline Relocate	0	LF	\$150 00	\$0	
Overhead Electric Relocate	0	LS	\$150,000.00	\$0	
			Utilities Subtotal	\$40,000	
<b>COST ESTIMATE SUMMARY</b>					
Reconnaissance Study		LS	All Req'd	\$0	
Preliminary Design		LS	All Req'd	\$83,000	
Right-of-Way	1	LS	\$225,000 00	\$225,000	
Utilities		LS	All Req'd	\$40,000	
Construction		LS		\$833,000	
Contract Administration		LS	@ 15%	\$165,000	
ICAP		LS	@ 5 5% of all		
Intersection:			Est Design/Construction Costs (Includes 15% Contingency)		
Sterling Highway and Heath Street Roundabout			<b>Total:</b>	<b>\$1,547,900</b>	

Homer Intersections Planning Study					
Sterling Highway and Heath Street Signalization					
10/25/2005 15:59					
Work	Quantity	Unit	Unit Cost	Total Cost	Remarks
<b>REMOVALS</b>					
Remove Existing Curb	920	LF	\$9 00	\$8,280	
Unclassified Excavation	30	CY	\$12 00	\$360	
Remove parking meters	0	EA	\$250 00	\$0	
Remove Existing Guardrail	0	LF	\$3 00	\$0	
Remove Existing Pavement	400	SY	\$8 00	\$3,200	
Remove Sidewalk	230	SY	\$7.00	\$1,610	
<b>INSTALLATIONS</b>					
Retaining Wall	0	SF	\$75 00	\$0	
Fill Material (Subgrade, Borrow A)	30	Ton	\$20 00	\$600	
Asphalt	40	Ton	\$120 00	\$4,800	
Base Course	0	Ton	\$35 00	\$0	
Sidewalk / Pathway	200	LF	\$30 00	\$6,000	
Curb & Gutter	920	LF	\$20 00	\$18,400	
Curb Ramp	8	EA	\$900 00	\$7,200	
End Section	0	EA	\$500 00	\$0	
Culvert, 24"	0	LF	\$45 00	\$0	
Inlet	0	EA	\$3,000.00	\$0	
<b>TRAFFIC CONTROL</b>					
Relocated Signal Pole, Foundation	0	EA	\$5,000 00	\$0	
Relocated Electroliers	0	EA	\$3,000 00	\$0	
New Electrolier	0	EA	\$10,000 00	\$0	
New Load Center	1	EA	\$7,000 00	\$7,000	
Relocated Controller/Foundations	0	EA	\$7,500 00	\$0	
New Controller/Foundation	1	EA	\$25,000 00	\$25,000	
Relocate Traffic Structure Support	0	EA	\$50,000 00	\$0	
New Junction Boxes	16	EA	\$1,100 00	\$17,600	
Loop Detectors	28	EA	\$1,200 00	\$33,600	
New Traffic Signal Wiring	1	EA	\$7,500 00	\$7,500	
New Signal Pole, Heads, Signs	4	EA	\$35,000 00	\$140,000	
New Conduit w/wiring	1500	LF	\$30 00	\$45,000	
Remove Pole & Foundation	0	EA	\$2,000 00	\$0	
Signing	8	EA	\$800 00	\$6,400	
Striping	1000	LF	\$2 00	\$2,000	
Preformed Symbols	8	EA	\$600 00	\$4,800	
<b>OTHER</b>					
Erosion/Pollution Control		LS	All Req'd	\$3,390	1% of pay items
Field Office		LS	All Req'd	\$0	
Traffic Maintenance		LS	All Req'd	\$50,900	15% of pay items
Construction Surveying		LS	All Req'd	\$20,360	6% of pay items
Mobilization/Demobilization		LS	All Req'd	\$44,120	13% of pay items
<b>CONSTRUCTION CONTRACT COST</b>			Subtotal	\$458,120	
<b>UTILITIES</b>					
Utility Preliminary Design	0	LS	All Req'd	\$0	
Gas Line Relocate	0	LS	\$1,500 00	\$0	
Underground Telephone Relocate	0	LS	\$3,500 00	\$0	
Underground Electric Relocate	0	LF	\$5 10	\$0	
Hydrant Relocate	0	EA	\$15,000 00	\$0	
Sewerline Relocate	0	LF	\$150 00	\$0	
Overhead Electric Relocate	0	LS	\$75,000.00	\$0	
			Utilities Subtotal	\$0	
<b>COST ESTIMATE SUMMARY</b>					
Reconnaissance Study		LS	All Req'd	\$0	
Preliminary Design		LS	All Req'd	\$46,000	
Right-of-Way	1	LS	\$10,000 00	\$10,000	
Utilities		LS	All Req'd	\$0	
Construction		LS		\$458,000	
Contract Administration		LS	' @ 15%	\$70,000	
ICAP		LS	@ 5.5% of all		
Intersection:					
Sterling Highway and Heath Street Signalization			<b>Total:</b>	<b>\$671,600</b>	Est Design/Construction Costs (Includes 15% Contingency)

## Homer Intersections Planning Study

### Sterling Highway and Lake Street Roundabout

10/25/2005 15:59

Work	Quantity	Unit	Unit Cost	Total Cost	Remarks
<b>REMOVALS</b>					
Remove Existing Curb	2000	LF	\$9 00	\$18,000	
Unclassified Excavation	1600	CY	\$12 00	\$19,200	
Remove parking meters	0	EA	\$250 00	\$0	
Remove Existing Guardrail	0	LF	\$3 00	\$0	
Remove Existing Pavement	2500	SY	\$8 00	\$20,000	
Remove Sidewalk	1200	SY	\$7.00	\$8,400	
<b>INSTALLATIONS</b>					
Fill Material (Subgrade, Borrow A)	1600	Ton	\$20 00	\$32,000	
Asphalt	1100	Ton	\$120 00	\$132,000	
Base Course	1100	Ton	\$35 00	\$38,500	
Sidewalk / Pathway	1200	LF	\$30 00	\$36,000	
Curb & Gutter	2300	LF	\$20 00	\$46,000	
Curb Ramp	6	EA	\$900 00	\$5,400	
Concrete Apron	575	SY	\$90 00	\$51,750	
Culvert, 24"	300	LF	\$45 00	\$13,500	
Inlet	4	EA	\$3,000.00	\$12,000	
<b>TRAFFIC CONTROL</b>					
Relocated Signal Pole, Foundation	0	EA	\$5,000 00	\$0	
Relocated Electroliers	0	EA	\$3,000 00	\$0	
New Electrolier	4	EA	\$10,000 00	\$40,000	
New Load Center	1	EA	\$7,000 00	\$7,000	
Relocated Controller/Foundations	0	EA	\$7,500 00	\$0	
New Controller/Foundation		EA	\$25,000 00	\$0	
Relocate Traffic Structure Support	0	EA	\$50,000 00	\$0	
New Junction Boxes		EA	\$1,100 00	\$0	
Loop Detectors		EA	\$1,200 00	\$0	
New Traffic Signal Wiring		EA	\$7,500 00	\$0	
New Signal Pole, Heads, Signs	0	EA	\$35,000 00	\$0	
New Conduit w/wiring		LF	\$30 00	\$0	
Remove Pole & Foundation	3	EA	\$2,000 00	\$6,000	
Signing	27	EA	\$800 00	\$21,600	
Striping	1000	LF	\$2 00	\$2,000	
Preformed Symbols	12	EA	\$600 00	\$7,200	
Signal Heads, Ped Heads	0	LS	\$20,000 00	\$0	
<b>OTHER</b>					
Erosion/Pollution Control		LS	All Req'd	\$5,170	1% of pay items
Field Office		LS	All Req'd	\$0	
Traffic Maintenance		LS	All Req'd	\$77,480	15% of pay items
Construction Surveying		LS	All Req'd	\$30,990	6% of pay items
Mobilization/Demobilization		LS	All Req'd	\$67,150	13% of pay items
<b>CONSTRUCTION CONTRACT COST</b>			Subtotal	\$697,340	
<b>UTILITIES</b>					
Utility Preliminary Design	0	LS	All Req'd		
Gas Line Relocate	0	LS	\$1,500 00	\$0	
Underground Telephone Relocate	125	LF	\$100 00	\$12,500	
Underground Electric Relocate	230	LF	\$100 00	\$23,000	
Hydrant Relocate	0	EA	\$15,000 00	\$0	
Sewerline Relocate	0	LF	\$150 00	\$0	
Overhead Electric Relocate	0	LS	\$150,000.00	\$0	
			Utilities Subtotal	\$35,500	
<b>COST ESTIMATE SUMMARY</b>					
Reconnaissance Study		LS	All Req'd	\$0	
Preliminary Design		LS	All Req'd	\$70,000	
Right-of-Way		LS	\$50,000 00	\$0	
Utilities		LS	All Req'd	\$35,500	
Construction		LS		\$697,000	
Contract Administration		LS	' @ 15%	\$110,000	
ICAP		LS	@5 5% of all		
<b>Intersection:</b>					
Sterling Highway and Lake Street Roundabout			<b>Total:</b>	<b>\$1,049,375</b>	Est Design/Construction Costs (Includes 15% Contingency)



Homer Intersections Planning Study					
Sterling Highway and Lake Street Signalization					
10/25/2005 15:59					
Work	Quantity	Unit	Unit Cost	Total Cost	Remarks
<b>REMOVALS</b>					
Remove Existing Curb	250	LF	\$9 00	\$2,250	
Unclassified Excavation	510	CY	\$12 00	\$6,120	
Remove parking meters	0	EA	\$250 00	\$0	
Remove Existing Guardrail	0	LF	\$3 00	\$0	
Remove Existing Pavement	600	SY	\$8 00	\$4,800	
Remove Sidewalk	0	SY	\$7.00	\$0	
<b>INSTALLATIONS</b>					
Fill Material (Subgrade, Borrow A)	750	Ton	\$20 00	\$15,000	
Asphalt	120	Ton	\$120 00	\$14,400	
Base Course	200	Ton	\$35 00	\$7,000	
Sidewalk / Pathway	720	LF	\$30 00	\$21,600	
Curb & Gutter	1540	LF	\$20 00	\$30,800	
Curb Ramp	6	EA	\$900 00	\$5,400	
End Section	0	EA	\$500 00	\$0	
Culvert, 24"	0	LF	\$45 00	\$0	
Inlet	1	EA	\$3,000.00	\$3,000	
<b>TRAFFIC CONTROL</b>					
Relocated Signal Pole, Foundation	0	EA	\$5,000 00	\$0	
Relocated Electroliers	0	EA	\$3,000 00	\$0	
New Electrolier	0	EA	\$10,000 00	\$0	
New Load Center	1	EA	\$7,000 00	\$7,000	
Relocated Controller/Foundations	0	EA	\$7,500 00	\$0	
New Controller/Foundation	1	EA	\$25,000 00	\$25,000	
Relocate Traffic Structure Support	0	EA	\$50,000 00	\$0	
New Junction Boxes	11	EA	\$1,100 00	\$12,100	
Loop Detectors	19	EA	\$1,200 00	\$22,800	
New Traffic Signal Wiring	1	EA	\$7,500 00	\$7,500	
New Signal Pole, Heads, Signs	0	EA	\$35,000 00	\$0	
New Conduit w/wiring	700	LF	\$30 00	\$21,000	
Remove Pole & Foundation	0	EA	\$2,000 00	\$0	
Signing	10	EA	\$800 00	\$8,000	
Striping	1000	LF	\$2 00	\$2,000	
Preformed Symbols	10	EA	\$600 00	\$6,000	
Signal Heads, Ped Heads	1	LS	\$20,000 00	\$20,000	
<b>OTHER</b>					
Erosion/Pollution Control		LS	All Req'd	\$2,420	1% of pay items
Field Office		LS	All Req'd	\$0	
Traffic Maintenance		LS	All Req'd	\$36,270	15% of pay items
Construction Surveying		LS	All Req'd	\$14,510	6% of pay items
Mobilization/Demobilization		LS	All Req'd	\$31,430	13% of pay items
<b>CONSTRUCTION CONTRACT COST</b>			Subtotal	\$326,400	
<b>UTILITIES</b>					
Utility Preliminary Design	0	LS	All Req'd		
Gas Line Relocate	0	LS	\$1,500 00	\$0	
Underground Telephone Relocate	0	LS	\$3,500 00	\$0	
Underground Electric Relocate	0	LF	\$5 10	\$0	
Hydrant Relocate	0	EA	\$15,000 00	\$0	
Sewerline Relocate	0	LF	\$150 00	\$0	
Overhead Electric Relocate	0	LS	\$150,000.00	\$0	
			Utilities Subtotal	\$0	
<b>COST ESTIMATE SUMMARY</b>					
Reconnaissance Study		LS	All Req'd	\$0	
Preliminary Design		LS	All Req'd	\$33,000	
Right-of-Way		LS	\$10,000 00	\$0	
Utilities		LS	All Req'd	\$0	
Construction		LS		\$326,000	
Contract Administration		LS	' @ 15%	\$49,000	
ICAP		LS	@ 5 5% of all		
Intersection:					
Sterling Highway and Lake Street Signalization			<b>Total:</b>	<b>\$469,200</b>	Est Design/Construction Costs (Includes 15% Contingency)

Homer Intersections Planning Study					
Sterling Highway and Kachemak Bay Drive Roundabout					
10/25/2005 15:59					
Work	Quantity	Unit	Unit Cost	Total Cost	Remarks
<b>REMOVALS</b>					
Remove Existing Curb	0	LF	\$9 00	\$0	
Unclassified Excavation	3900	CY	\$12 00	\$46,800	
Remove parking meters	0	EA	\$250 00	\$0	
Remove Existing Guardrail	0	LF	\$3 00	\$0	
Remove Existing Pavement	1850	SY	\$8 00	\$14,800	
Remove Sidewalk	100	SY	\$7.00	\$700	
<b>INSTALLATIONS</b>					
Fill Material (Subgrade, Borrow A)	3900	Ton	\$20 00	\$78,000	
Asphalt	775	Ton	\$120 00	\$93,000	
Base Course	775	Ton	\$35 00	\$27,130	
Sidewalk / Pathway	750	LF	\$30 00	\$22,500	
Curb & Gutter	1900	LF	\$20 00	\$38,000	
Curb Ramp	6	EA	\$900 00	\$5,400	
Concrete Apron	450	SY	\$90 00	\$40,500	
Culvert, 24"	300	LF	\$45 00	\$13,500	
Inlet	3	EA	\$3,000.00	\$9,000	
<b>TRAFFIC CONTROL</b>					
Relocated Signal Pole, Foundation	0	EA	\$5,000 00	\$0	
Relocated Electroliers	0	EA	\$3,000 00	\$0	
New Electrolier	4	EA	\$10,000 00	\$40,000	
New Load Center	0	EA	\$7,000 00	\$0	
Relocated Controller/Foundations	0	EA	\$7,500 00	\$0	
New Controller/Foundation	0	EA	\$25,000 00	\$0	
Relocate Traffic Structure Support	0	EA	\$50,000 00	\$0	
New Junction Boxes	0	EA	\$1,100 00	\$0	
Loop Detectors	0	EA	\$1,200 00	\$0	
New Traffic Signal Wiring	0	EA	\$7,500 00	\$0	
New Signal Pole, Heads, Signs	0	EA	\$35,000 00	\$0	
New Conduit w/wiring	0	LF	\$30 00	\$0	
Remove Pole & Foundation	0	EA	\$2,000 00	\$0	
Signing	27	EA	\$800 00	\$21,600	
Striping	1000	LF	\$2 00	\$2,000	
Preformed Symbols	12	EA	\$600 00	\$7,200	
Signal Heads, Ped Heads	0	LS	\$20,000 00	\$0	
<b>OTHER</b>					
Erosion/Pollution Control		LS	All Req'd	\$4,600	1% of pay items
Field Office		LS	All Req'd	\$0	
Traffic Maintenance		LS	All Req'd	\$69,020	15% of pay items
Construction Surveying		LS	All Req'd	\$27,610	6% of pay items
Mobilization/Demobilization		LS	All Req'd	\$59,820	13% of pay items
<b>CONSTRUCTION CONTRACT COST</b>			Subtotal	\$621,180	
<b>UTILITIES</b>					
Utility Preliminary Design	0	LS	All Req'd		
Gas Line Relocate	0	LS	\$1,500 00	\$0	
Underground Telephone Relocate	550	LF	\$100 00	\$55,000	
Underground Electric Relocate	0	LF	\$100 00	\$0	
Hydrant Relocate	0	EA	\$15,000 00	\$0	
Sewerline Relocate	0	LF	\$150 00	\$0	
Overhead Electric Relocate	0	LS	\$150,000.00	\$0	
			Utilities Subtotal	\$55,000	
<b>COST ESTIMATE SUMMARY</b>					
Reconnaissance Study		LS	All Req'd	\$0	
Preliminary Design		LS	All Req'd	\$62,000	
Right-of-Way	1	LS	\$50,000 00	\$50,000	
Utilities		LS	All Req'd	\$55,000	
Construction		LS		\$621,000	
Contract Administration		LS	' @ 15%	\$109,000	
ICAP		LS	@ 5.5% of all		
Intersection:					
Sterling Highway and Kachemak Bay Drive Roundabout			<b>Total:</b>	<b>\$1,031,550</b>	Est Design/Construction Costs (Includes 15% Contingency)

Homer Intersections Planning Study					
Sterling Highway and Kachemak Bay Drive Signalization					
10/25/2005 15:59					
Work	Quantity	Unit	Unit Cost	Total Cost	Remarks
<b>REMOVALS</b>					
Remove Existing Curb	0	LF	\$9.00	\$0	
Unclassified Excavation	550	CY	\$12.00	\$6,600	
Remove parking meters	0	EA	\$250.00	\$0	
Remove Existing Guardrail	0	LF	\$3.00	\$0	
Remove Existing Pavement	350	SY	\$8.00	\$2,800	
Remove Sidewalk	150	SY	\$7.00	\$1,050	
<b>INSTALLATIONS</b>					
Fill Material (Subgrade, Borrow A)	800	Ton	\$20.00	\$16,000	
Asphalt	210	Ton	\$120.00	\$25,200	
Base Course	200	Ton	\$35.00	\$7,000	
Sidewalk / Pathway	0	LF	\$30.00	\$0	
Curb & Gutter	750	LF	\$20.00	\$15,000	
Curb Ramp	4	EA	\$900.00	\$3,600	
End Section	0	EA	\$500.00	\$0	
Culvert, 24"	300	LF	\$45.00	\$13,500	
Inlet	3	EA	\$3,000.00	\$9,000	
<b>TRAFFIC CONTROL</b>					
Relocated Signal Pole, Foundation	0	EA	\$5,000.00	\$0	
Relocated Electroliers	0	EA	\$3,000.00	\$0	
New Electrolier	0	EA	\$10,000.00	\$0	
New Load Center	1	EA	\$7,000.00	\$7,000	
Relocated Controller/Foundations	0	EA	\$7,500.00	\$0	
New Controller/Foundation	1	EA	\$25,000.00	\$25,000	
Relocate Traffic Structure Support	0	EA	\$50,000.00	\$0	
New Junction Boxes	14	EA	\$1,100.00	\$15,400	
Loop Detectors	17	EA	\$1,200.00	\$20,400	
New Traffic Signal Wiring	1	EA	\$7,500.00	\$7,500	
New Signal Pole, Heads, Signs	3	EA	\$35,000.00	\$105,000	
New Conduit w/wiring	1800	LF	\$30.00	\$54,000	
Remove Pole & Foundation	0	EA	\$2,000.00	\$0	
Signing	10	EA	\$800.00	\$8,000	
Striping	1000	LF	\$2.00	\$2,000	
Preformed Symbols	4	EA	\$600.00	\$2,400	
<b>OTHER</b>					
Erosion/Pollution Control		LS	All Req'd	\$3,460	1% of pay items
Field Office		LS	All Req'd	\$0	
Traffic Maintenance		LS	All Req'd	\$51,970	15% of pay items
Construction Surveying		LS	All Req'd	\$20,790	6% of pay items
Mobilization/Demobilization		LS	All Req'd	\$45,040	13% of pay items
<b>CONSTRUCTION CONTRACT COST</b>			Subtotal	\$467,710	
<b>UTILITIES</b>					
Utility Preliminary Design	0	LS	All Req'd		
Gas Line Relocate	0	LS	\$1,500.00	\$0	
Underground Telephone Relocate	700	LF	\$100.00	\$70,000	
Underground Electric Relocate	0	LF	\$5.10	\$0	
Hydrant Relocate	0	EA	\$15,000.00	\$0	
Sewerline Relocate	0	LF	\$150.00	\$0	
Overhead Electric Relocate	0	LS	\$150,000.00	\$0	
			Utilities Subtotal	\$70,000	
<b>COST ESTIMATE SUMMARY</b>					
Reconnaissance Study		LS	All Req'd	\$0	
Preliminary Design		LS	All Req'd	\$47,000	
Right-of-Way	0	LS	\$0.00	\$0	
Utilities		LS	All Req'd	\$70,000	
Construction		LS		\$468,000	
Contract Administration		LS	' @ 15%	\$81,000	
ICAP		LS	@ 5.5% of all		
Intersection:					
Sterling Highway and Kachemak Bay Drive Signalization			<b>Total:</b>	<b>\$765,900</b>	Est Design/Construction Costs (Includes 15% Contingency)

## Homer Intersections Planning Study

### Pioneer Avenue and Heath Street Channelization

10/25/2005 15:59

Work	Quantity	Unit	Unit Cost	Total Cost	Remarks
<b>REMOVALS</b>					
Remove Existing Curb	530	LF	\$9.00	\$4,770	
Unclassified Excavation	640	CY	\$12.00	\$7,680	
Remove parking meters	0	EA	\$250.00	\$0	
Remove Existing Guardrail	0	LF	\$3.00	\$0	
Remove Existing Pavement	20	SY	\$8.00	\$160	
Remove Sidewalk	340	SY	\$7.00	\$2,380	
<b>INSTALLATIONS</b>					
Fill Material (Subgrade, Borrow A)	640	Ton	\$20.00	\$12,800	
Asphalt	80	Ton	\$120.00	\$9,600	
Base Course	80	Ton	\$35.00	\$2,800	
Sidewalk / Pathway	450	LF	\$30.00	\$13,500	
Curb & Gutter	450	LF	\$20.00	\$9,000	
Curb Ramp	4	EA	\$900.00	\$3,600	
End Section	0	EA	\$500.00	\$0	
Culvert, 24"	0	LF	\$45.00	\$0	
Inlet	0	EA	\$3,000.00	\$0	
<b>TRAFFIC CONTROL</b>					
Relocated Signal Pole, Foundation	0	EA	\$5,000.00	\$0	
Relocated Electroliers	0	EA	\$3,000.00	\$0	
New Electrolier	0	EA	\$10,000.00	\$0	
New Load Center	0	EA	\$7,000.00	\$0	
Relocated Controller/Foundations	0	EA	\$7,500.00	\$0	
New Controller/Foundation	0	EA	\$25,000.00	\$0	
Relocate Traffic Structure Support	0	EA	\$50,000.00	\$0	
New Junction Boxes	0	EA	\$1,100.00	\$0	
Loop Detectors	0	EA	\$1,200.00	\$0	
New Traffic Signal Wiring	0	EA	\$7,500.00	\$0	
New Signal Pole, Heads, Signs	0	EA	\$35,000.00	\$0	
New Conduit w/wiring	0	LF	\$30.00	\$0	
Remove Pole & Foundation	0	EA	\$2,000.00	\$0	
Signing	4	EA	\$800.00	\$3,200	
Striping	800	LF	\$2.00	\$1,600	
Preformed Symbols	2	EA	\$600.00	\$1,200	
<b>OTHER</b>					
Erosion/Pollution Control		LS	All Req'd	\$720	1% of pay items
Field Office		LS	All Req'd	\$0	
Traffic Maintenance		LS	All Req'd	\$10,840	15% of pay items
Construction Surveying		LS	All Req'd	\$4,340	6% of pay items
Mobilization/Demobilization		LS	All Req'd	\$9,400	13% of pay items
<b>CONSTRUCTION CONTRACT COST</b>			Subtotal	\$97,590	
<b>UTILITIES</b>					
Utility Preliminary Design	0	LS	All Req'd		
Gas Line Relocate	0	LS	\$1,500.00	\$0	
Underground Telephone Relocate	200	LF	\$100.00	\$20,000	
Underground Electric Relocate	0	LF	\$5.10	\$0	
Hydrant Relocate	0	EA	\$15,000.00	\$0	
Sewerline Relocate	0	LF	\$150.00	\$0	
Overhead Electric Relocate	0	LS	\$150,000.00	\$0	
			Utilities Subtotal	\$20,000	
<b>COST ESTIMATE SUMMARY</b>					
Reconnaissance Study		LS	All Req'd	\$0	
Preliminary Design		LS	All Req'd	\$10,000	
Right-of-Way	1	LS	\$30,000.00	\$30,000	
Utilities		LS	All Req'd	\$20,000	
Construction		LS		\$98,000	
Contract Administration		LS	' @ 15%	\$22,000	
ICAP		LS	@ 5.5% of all		
Intersection:					
Pioneer Avenue and Heath Street Channelization			<b>Total:</b>	<b>\$207,000</b>	Est Design/Construction Costs (Includes 15% Contingency)

## Homer Intersections Planning Study

### Pioneer Avenue and Lake Street Roundabout

10/25/2005 15:59

Work	Quantity	Unit	Unit Cost	Total Cost	Remarks
<b>REMOVALS</b>					
Remove Existing Curb	660	LF	\$9 00	\$5,940	
Unclassified Excavation	3400	CY	\$12 00	\$40,800	
Remove parking meters	0	EA	\$250 00	\$0	
Remove Existing Guardrail	0	LF	\$3 00	\$0	
Remove Existing Pavement	2000	SY	\$8 00	\$16,000	
Remove Sidewalk	590	SY	\$7.00	\$4,130	
<b>INSTALLATIONS</b>					
Retaining Wall	1500	SF	\$150 00	\$225,000	
Fill Material (Subgrade, Borrow A)	3400	Ton	\$20 00	\$68,000	
Asphalt	720	Ton	\$120 00	\$86,400	
Base Course	720	Ton	\$35 00	\$25,200	
Sidewalk / Pathway	1300	LF	\$30 00	\$39,000	
Curb & Gutter	2500	LF	\$20 00	\$50,000	
Curb Ramp	8	EA	\$900 00	\$7,200	
Concrete Apron	450	SY	\$90 00	\$40,500	
Culvert, 24"	600	LF	\$45 00	\$27,000	
Inlet	6	EA	\$3,000.00	\$18,000	
<b>TRAFFIC CONTROL</b>					
Relocated Signal Pole, Foundation	0	EA	\$5,000 00	\$0	
Relocated Electroliers	0	EA	\$3,000 00	\$0	
New Electrolier	6	EA	\$10,000 00	\$60,000	
New Load Center	1	EA	\$7,000 00	\$7,000	
Relocated Controller/Foundations	0	EA	\$7,500 00	\$0	
New Controller/Foundation	0	EA	\$25,000 00	\$0	
Relocate Traffic Structure Support	0	EA	\$50,000 00	\$0	
New Junction Boxes	0	EA	\$1,100 00	\$0	
Loop Detectors	0	EA	\$1,200 00	\$0	
New Traffic Signal Wiring	0	EA	\$7,500 00	\$0	
New Signal Pole, Heads, Signs	0	EA	\$35,000 00	\$0	
New Conduit w/wiring	0	LF	\$30 00	\$0	
Remove Pole & Foundation	0	EA	\$2,000 00	\$0	
Signing	40	EA	\$400 00	\$16,000	
Striping	1500	LF	\$2 00	\$3,000	
Performed Symbols	16	EA	\$600 00	\$9,600	
<b>OTHER</b>					
Erosion/Pollution Control		LS	All Req'd	\$7,490	1% of pay items
Field Office		LS	All Req'd	\$0	
Traffic Maintenance		LS	All Req'd	\$112,320	15% of pay items
Construction Surveying		LS	All Req'd	\$44,930	6% of pay items
Mobilization/Demobilization		LS	All Req'd	\$97,340	13% of pay items
<b>CONSTRUCTION CONTRACT COST</b>			Subtotal	\$1,010,850	
<b>UTILITIES</b>					
Utility Preliminary Design	0	LS	All Req'd		
Gas Line Relocate	0	LS	\$1,500 00	\$0	
Underground Telephone Relocate	350	LF	\$100 00	\$35,000	
Underground Electric Relocate	0	LF	\$5 10	\$0	
Hydrant Relocate	0	EA	\$15,000 00	\$0	
Sewerline Relocate	0	LF	\$150 00	\$0	
Overhead Electric Relocate	0	LS	\$150,000.00	\$0	
			Utilities Subtotal	\$35,000	
<b>COST ESTIMATE SUMMARY</b>					
Reconnaissance Study		LS	All Req'd	\$0	
Preliminary Design		LS	All Req'd	\$101,000	
Right-of-Way	1	LS	\$600,000 00	\$600,000	
Utilities		LS	All Req'd	\$35,000	
Construction		LS		\$1,011,000	
Contract Administration		LS	@ 15%	\$247,000	
ICAP		LS	@ 5.5% of all		
<b>Intersection:</b>					
Pioneer Avenue and Lake Street Roundabout			<b>Total:</b>	<b>\$2,293,100</b>	Est. Design/Construction Costs (Includes 15% Contingency)

## Homer Intersections Planning Study

### Pioneer Avenue and Lake Street Signalization

10/25/2005 15:59

Work	Quantity	Unit	Unit Cost	Total Cost	Remarks
<b>REMOVALS</b>					
Remove Existing Curb	680	LF	\$9.00	\$6,120	
Unclassified Excavation	3624	CY	\$12.00	\$43,490	
Remove parking meters	0	EA	\$250.00	\$0	
Remove Existing Guardrail	0	LF	\$3.00	\$0	
Remove Existing Pavement	180	SY	\$8.00	\$1,440	
Remove Sidewalk	290	SY	\$7.00	\$2,030	
<b>INSTALLATIONS</b>					
Fill Material (Subgrade, Borrow A)	3624	Ton	\$20.00	\$72,480	
Asphalt	640	Ton	\$120.00	\$76,800	
Base Course	640	Ton	\$35.00	\$22,400	
Sidewalk / Pathway	1220	LF	\$30.00	\$36,600	
Curb & Gutter	1220	LF	\$20.00	\$24,400	
Curb Ramp	8	EA	\$900.00	\$7,200	
End Section	0	EA	\$500.00	\$0	
Culvert, 24"	20	LF	\$45.00	\$900	
Inlet	1	EA	\$3,000.00	\$3,000	
<b>TRAFFIC CONTROL</b>					
Relocated Signal Pole, Foundation	0	EA	\$5,000.00	\$0	
Relocated Electroliers	0	EA	\$3,000.00	\$0	
New Electrolier	2	EA	\$10,000.00	\$20,000	
New Load Center	1	EA	\$7,000.00	\$7,000	
Relocated Controller/Foundations	0	EA	\$7,500.00	\$0	
New Controller/Foundation	1	EA	\$25,000.00	\$25,000	
Relocate Traffic Structure Support	0	EA	\$50,000.00	\$0	
New Junction Boxes	16	EA	\$1,100.00	\$17,600	
Loop Detectors	40	EA	\$1,200.00	\$48,000	
New Traffic Signal Wiring	1	EA	\$7,500.00	\$7,500	
New Signal Pole, Heads, Signs	4	EA	\$35,000.00	\$140,000	
New Conduit w/wiring	2000	LF	\$30.00	\$60,000	
Remove Pole & Foundation	0	EA	\$2,000.00	\$0	
Signing	12	EA	\$800.00	\$9,600	
Striping	1500	LF	\$2.00	\$3,000	
Preformed Symbols	8	EA	\$600.00	\$4,800	
<b>OTHER</b>					
Erosion/Pollution Control		LS	All Req'd	\$6,390	1% of pay items
Field Office		LS	All Req'd	\$0	
Traffic Maintenance		LS	All Req'd	\$95,900	15% of pay items
Construction Surveying		LS	All Req'd	\$38,360	6% of pay items
Mobilization/Demobilization		LS	All Req'd	\$83,120	13% of pay items
<b>CONSTRUCTION CONTRACT COST</b>			Subtotal	\$863,130	
<b>UTILITIES</b>					
Utility Preliminary Design	0	LS	All Req'd		
Gas Line Relocate	0	LS	\$1,500.00	\$0	
Underground Telephone Relocate	360	LF	\$100.00	\$36,000	
Underground Electric Relocate	0	LF	\$5.10	\$0	
Hydrant Relocate	0	EA	\$15,000.00	\$0	
Sewerline Relocate	0	LF	\$150.00	\$0	
Overhead Electric Relocate	0	LS	\$150,000.00	\$0	
			Utilities Subtotal	\$36,000	
<b>COST ESTIMATE SUMMARY</b>					
Reconnaissance Study		LS	All Req'd	\$0	
Preliminary Design		LS	All Req'd	\$86,000	
Right-of-Way	1	LS	\$400,000.00	\$400,000	
Utilities		LS	All Req'd	\$36,000	
Construction		LS		\$863,000	
Contract Administration		LS	' @ 15%	\$195,000	
ICAP		LS	@ 5.5% of all		
Intersection:					
Pioneer Avenue and Lake Street Signalization			<b>Total:</b>	<b>\$1,817,000</b>	Est Design/Construction Costs (Includes 15% Contingency)

Homer Intersections Planning Study					
East End Road and Fairview Avenue Channelization					
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Work	Quantity	Unit	Unit Cost	Total Cost	Remarks
<b>REMOVALS</b>					
Remove Existing Curb	300	LF	\$9 00	\$2,700	
Unclassified Excavation	200	CY	\$12 00	\$2,400	
Remove parking meters	0	EA	\$250 00	\$0	
Remove Existing Guardrail	0	LF	\$3 00	\$0	
Remove Existing Pavement	50	SY	\$8 00	\$400	
Remove Sidewalk	100	SY	\$7.00	\$700	
<b>INSTALLATIONS</b>					
Fill Material (Subgrade, Borrow A)	400	Ton	\$20 00	\$8,000	
Asphalt	95	Ton	\$120 00	\$11,400	
Base Course	95	Ton	\$35 00	\$3,330	
Sidewalk / Pathway	150	LF	\$30 00	\$4,500	
Curb & Gutter	400	LF	\$20 00	\$8,000	
Curb Ramp	2	EA	\$900 00	\$1,800	
End Section	0	EA	\$500 00	\$0	
Culvert, 24"	50	LF	\$45 00	\$2,250	
Inlet	1	EA	\$3,000.00	\$3,000	
<b>TRAFFIC CONTROL</b>					
Relocated Signal Pole, Foundation	0	EA	\$5,000 00	\$0	
Relocated Electroliers	0	EA	\$3,000 00	\$0	
New Electrolier	0	EA	\$10,000 00	\$0	
New Load Center	0	EA	\$7,000 00	\$0	
Relocated Controller/Foundations	0	EA	\$7,500 00	\$0	
New Controller/Foundation	0	EA	\$25,000 00	\$0	
Relocate Traffic Structure Support	0	EA	\$50,000 00	\$0	
New Junction Boxes	0	EA	\$1,100 00	\$0	
Loop Detectors	0	EA	\$1,200 00	\$0	
New Traffic Signal Wiring	0	EA	\$7,500 00	\$0	
New Signal Pole, Heads, Signs	0	EA	\$35,000 00	\$0	
New Conduit w/wiring	0	LF	\$30 00	\$0	
Remove Pole & Foundation	0	EA	\$2,000 00	\$0	
Signing	4	EA	\$800 00	\$3,200	
Striping	500	LF	\$2 00	\$1,000	
Preformed Symbols	4	EA	\$600 00	\$2,400	
<b>OTHER</b>					
Erosion/Pollution Control		LS	All Req'd	\$550	1% of pay items
Field Office		LS	All Req'd	\$0	
Traffic Maintenance		LS	All Req'd	\$8,260	15% of pay items
Construction Surveying		LS	All Req'd	\$3,300	6% of pay items
Mobilization/Demobilization		LS	All Req'd	\$7,160	13% of pay items
<b>CONSTRUCTION CONTRACT COST</b>			Subtotal	\$74,350	
<b>UTILITIES</b>					
Utility Preliminary Design	0	LS	All Req'd		
Gas Line Relocate	0	LS	\$1,500 00	\$0	
Cable Television Relocate	1	LS	\$20,000 00	\$20,000	
Underground Telephone Relocate	1	LS	\$20,000 00	\$20,000	
Underground Electric Relocate	0	LF	\$5 10	\$0	
Hydrant Relocate	0	EA	\$15,000 00	\$0	
Sewerline Relocate	0	LF	\$150 00	\$0	
Overhead Electric Relocate	0	LS	\$50,000.00	\$0	
			Utilities Subtotal	\$40,000	
<b>COST ESTIMATE SUMMARY</b>					
Reconnaissance Study		LS	All Req'd	\$0	
Preliminary Design		LS	All Req'd	\$7,000	
Right-of-Way	0	LS	\$5,688 00	\$0	
Utilities		LS	All Req'd	\$40,000	
Construction		LS		\$74,000	
Contract Administration		LS	' @ 15%	\$17,000	
ICAP		LS	@ 5.5% of all		
Intersection:					
East End Road and Fairview Avenue Channelization			<b>Total:</b>	<b>\$158,700</b>	Est Design/Construction Costs (Includes 15% Contingency)

## Homer Intersections Planning Study

### East End Road and East Hill Road Roundabout

10/25/2005 15:59

Work	Quantity	Unit	Unit Cost	Total Cost	Remarks
<b>REMOVALS</b>					
Remove Existing Curb	2500	LF	\$9 00	\$22,500	
Unclassified Excavation	4500	CY	\$12 00	\$54,000	
Remove parking meters	0	EA	\$250 00	\$0	
Remove Existing Guardrail	0	LF	\$3 00	\$0	
Remove Existing Pavement	2200	SY	\$8 00	\$17,600	
Remove Sidewalk	550	SY	\$7.00	\$3,850	
<b>INSTALLATIONS</b>					
Retaining Wall	1000	SF	\$150 00	\$150,000	
Fill Material (Subgrade, Borrow A)	4500	Ton	\$20 00	\$90,000	
Asphalt	1000	Ton	\$120 00	\$120,000	
Base Course	1000	Ton	\$35 00	\$35,000	
Sidewalk / Pathway	960	LF	\$30 00	\$28,800	
Curb & Gutter	2600	LF	\$20 00	\$52,000	
Curb Ramp	6	EA	\$900 00	\$5,400	
Concrete Apron	450	SY	\$90 00	\$40,500	
Culvert, 24"	200	LF	\$45 00	\$9,000	
Inlet	4	EA	\$3,000.00	\$12,000	
<b>TRAFFIC CONTROL</b>					
Relocated Signal Pole, Foundation	0	EA	\$5,000 00	\$0	
Relocated Electroliers	0	EA	\$3,000 00	\$0	
New Electrolier	4	EA	\$10,000 00	\$40,000	
New Load Center	1	EA	\$7,000 00	\$7,000	
Relocated Controller/Foundations	0	EA	\$7,500 00	\$0	
New Controller/Foundation	0	EA	\$25,000 00	\$0	
Relocate Traffic Structure Support	0	EA	\$50,000 00	\$0	
New Junction Boxes	0	EA	\$1,100 00	\$0	
Loop Detectors	0	EA	\$1,200 00	\$0	
New Traffic Signal Wiring	0	EA	\$7,500 00	\$0	
New Signal Pole, Heads, Signs	0	EA	\$35,000 00	\$0	
New Conduit w/wiring	0	LF	\$30 00	\$0	
Remove Pole & Foundation	0	EA	\$2,000 00	\$0	
Signing	27	EA	\$800 00	\$21,600	
Striping	800	LF	\$2 00	\$1,600	
Preformed Symbols	12	EA	\$600 00	\$7,200	
<b>OTHER</b>					
Erosion/Pollution Control		LS	All Req'd	\$7,180	1% of pay items
Field Office		LS	All Req'd	\$0	
Traffic Maintenance		LS	All Req'd	\$107,710	15% of pay items
Construction Surveying		LS	All Req'd	\$43,080	6% of pay items
Mobilization/Demobilization		LS	All Req'd	\$93,350	13% of pay items
<b>CONSTRUCTION CONTRACT COST</b>			Subtotal	\$969,370	
<b>UTILITIES</b>					
Utility Preliminary Design	0	LS	All Req'd		
Gas Line Relocate	0	LS	\$1,500 00	\$0	
Cable Television Relocate	360	LF	\$100 00	\$36,000	
Underground Telephone Relocate	400	LF	\$100 00	\$40,000	
Underground Electric Relocate	0	LF	\$5 10	\$0	
Hydrant Relocate	0	EA	\$15,000 00	\$0	
Sewerline Relocate	0	LF	\$150 00	\$0	
Overhead Electric Relocate	1	LS	\$70,000.00	\$70,000	
			Utilities Subtotal	\$146,000	
<b>COST ESTIMATE SUMMARY</b>					
Reconnaissance Study		LS	All Req'd	\$0	
Preliminary Design		LS	All Req'd	\$97,000	
Right-of-Way	1	LS	\$400,000 00	\$400,000	
Utilities		LS	All Req'd	\$146,000	
Construction		LS		\$969,000	
Contract Administration		LS	' @ 15%	\$227,000	
ICAP		LS	@5 5% of all		
<b>Intersection:</b>					
East End Road and East Hill Road Roundabout			<b>Total:</b>	<b>\$2,114,850</b>	Est Design/Construction Costs (Includes 15% Contingency)



## Homer Intersections Planning Study

### East End Road and East Hill Road Signalization

10/25/2005 15:59

Work	Quantity	Unit	Unit Cost	Total Cost	Remarks
<b>REMOVALS</b>					
Remove Existing Curb	290	LF	\$9 00	\$2,610	
Unclassified Excavation	410	CY	\$12 00	\$4,920	
Remove parking meters	0	EA	\$250 00	\$0	
Remove Existing Guardrail	0	LF	\$3 00	\$0	
Remove Existing Pavement	100	SY	\$8 00	\$800	
Remove Sidewalk	15	SY	\$7.00	\$110	
<b>INSTALLATIONS</b>					
Fill Material (Subgrade, Borrow A)	530	Ton	\$20 00	\$10,600	
Asphalt	130	Ton	\$120 00	\$15,600	
Base Course	110	Ton	\$35 00	\$3,850	
Sidewalk / Pathway	410	LF	\$30 00	\$12,300	
Curb & Gutter	650	LF	\$20 00	\$13,000	
Curb Ramp	2	EA	\$900 00	\$1,800	
End Section	0	EA	\$500 00	\$0	
Culvert, 24"	30	LF	\$45 00	\$1,350	
Inlet	2	EA	\$3,000.00	\$6,000	
<b>TRAFFIC CONTROL</b>					
Relocated Signal Pole, Foundation	0	EA	\$5,000 00	\$0	
Relocated Electroliers	0	EA	\$3,000 00	\$0	
New Electrolier	0	EA	\$10,000 00	\$0	
New Load Center	1	EA	\$7,000 00	\$7,000	
Relocated Controller/Foundations	0	EA	\$7,500 00	\$0	
New Controller/Foundation	1	EA	\$25,000 00	\$25,000	
Relocate Traffic Structure Support	0	EA	\$50,000 00	\$0	
New Junction Boxes	14	EA	\$1,100 00	\$15,400	
Loop Detectors	19	EA	\$1,200 00	\$22,800	
New Traffic Signal Wiring	1	EA	\$7,500 00	\$7,500	
New Signal Pole, Heads, Signs	3	EA	\$35,000 00	\$105,000	
New Conduit w/wiring	1500	LF	\$30 00	\$45,000	
Remove Pole & Foundation	0	EA	\$2,000 00	\$0	
Signing	6	EA	\$800 00	\$4,800	
Striping	800	LF	\$2 00	\$1,600	
Preformed Symbols	6	EA	\$600 00	\$3,600	
<b>OTHER</b>					
Erosion/Pollution Control		LS	All Req'd	\$3,110	1% of pay items
Field Office		LS	All Req'd	\$0	
Traffic Maintenance		LS	All Req'd	\$46,600	15% of pay items
Construction Surveying		LS	All Req'd	\$18,640	6% of pay items
Mobilization/Demobilization		LS	All Req'd	\$40,380	13% of pay items
<b>CONSTRUCTION CONTRACT COST</b>			Subtotal	\$419,370	
<b>UTILITIES</b>					
Utility Preliminary Design	0	LS	All Req'd		
Gas Line Relocate	0	LS	\$1,500 00	\$0	
Cable Television Relocate	1	LS	\$30,000 00	\$30,000	
Underground Telephone Relocate	1	LS	\$30,000 00	\$30,000	
Underground Electric Relocate	0	LF	\$5 10	\$0	
Hydrant Relocate	0	EA	\$15,000 00	\$0	
Sewerline Relocate	0	LF	\$150 00	\$0	
Overhead Electric Relocate	1	LS	\$50,000.00	\$50,000	
			Utilities Subtotal	\$110,000	
<b>COST ESTIMATE SUMMARY</b>					
Reconnaissance Study		LS	All Req'd	\$0	
Preliminary Design		LS	All Req'd	\$42,000	
Right-of-Way	1	LS	\$20,000 00	\$20,000	
Utilities		LS	All Req'd	\$110,000	
Construction		LS		\$419,000	
Contract Administration		LS	' @ 15%	\$82,000	
ICAP		LS	@ 5.5% of all		
Intersection:					
East End Road and East Hill Road Signalization			<b>Total:</b>	<b>\$773,950</b>	Est Design/Construction Costs (Includes 15% Contingency)

## Homer Intersections Planning Study

### Pioneer Avenue Pedestrian Crossings

10/25/2005 15:59

Work	Quantity	Unit	Unit Cost	Total Cost	Remarks
<b>REMOVALS</b>					
Remove Existing Curb	800	LF	\$9 00	\$7,200	
Unclassified Excavation	0	CY	\$12 00	\$0	
Remove parking meters	0	EA	\$250 00	\$0	
Remove Existing Guardrail	0	LF	\$3 00	\$0	
Remove Existing Pavement	1600	SY	\$8 00	\$12,800	
Remove Sidewalk	0	SY	\$7.00	\$0	
<b>INSTALLATIONS</b>					
Fill Material (Subgrade, Borrow A)	0	Ton	\$20 00	\$0	
Asphalt	300	Ton	\$120 00	\$36,000	
Base Course	0	Ton	\$35 00	\$0	
Sidewalk / Pathway	160	LF	\$30 00	\$4,800	
Curb & Gutter	1200	LF	\$20 00	\$24,000	
Curb Ramp	8	EA	\$900 00	\$7,200	
End Section	0	EA	\$500 00	\$0	
Culvert, 24"	0	LF	\$45 00	\$0	
Inlet	0	EA	\$3,000.00	\$0	
<b>TRAFFIC CONTROL</b>					
Relocated Signal Pole, Foundation	0	EA	\$5,000 00	\$0	
Relocated Electroliers	0	EA	\$3,000 00	\$0	
New Electrolier	0	EA	\$10,000 00	\$0	
New Load Center	0	EA	\$7,000 00	\$0	
Relocated Controller/Foundations	0	EA	\$7,500 00	\$0	
New Controller/Foundation	0	EA	\$25,000 00	\$0	
Relocate Traffic Structure Support	0	EA	\$50,000 00	\$0	
New Junction Boxes	0	EA	\$1,100 00	\$0	
Loop Detectors	0	EA	\$1,200 00	\$0	
New Traffic Signal Wiring	0	EA	\$7,500 00	\$0	
New Signal Pole, Heads, Signs	0	EA	\$35,000 00	\$0	
New Conduit w/wiring	0	LF	\$30 00	\$0	
Remove Pole & Foundation	0	EA	\$2,000 00	\$0	
Signing	16	EA	\$800 00	\$12,800	
Striping	1600	LF	\$2 00	\$3,200	
Preformed Symbols	0	EA	\$600 00	\$0	
<b>OTHER</b>					
Erosion/Pollution Control		LS	All Req'd	\$1,080	1% of pay items
Field Office		LS	All Req'd	\$0	
Traffic Maintenance		LS	All Req'd	\$16,200	15% of pay items
Construction Surveying		LS	All Req'd	\$6,480	6% of pay items
Mobilization/Demobilization		LS	All Req'd	\$14,040	13% of pay items
<b>CONSTRUCTION CONTRACT COST</b>			Subtotal	\$145,800	
<b>UTILITIES</b>					
Utility Preliminary Design	0	LS	All Req'd		
Gas Line Relocate	0	LS	\$1,500 00	\$0	
Cable Television Relocate	0	LS	\$30,000 00	\$0	
Underground Telephone Relocate	0	LS	\$30,000 00	\$0	
Underground Electric Relocate	0	LF	\$5 10	\$0	
Hydrant Relocate	0	EA	\$15,000 00	\$0	
Sewerline Relocate	0	LF	\$150 00	\$0	
Overhead Electric Relocate	0	LS	\$50,000.00	\$0	
			Utilities Subtotal	\$0	
<b>COST ESTIMATE SUMMARY</b>					
Reconnaissance Study		LS	All Req'd	\$0	
Preliminary Design		LS	All Req'd	\$15,000	
Right-of-Way	0	LS	\$10,000 00	\$0	
Utilities		LS	All Req'd	\$0	
Construction		LS		\$146,000	
Contract Administration		LS	' @ 15%	\$22,000	
ICAP		LS	@ 5 5% of all		
Intersection:					
Pioneer Avenue Pedestrian Crossings		<b>Total:</b>		<b>\$210,450</b>	Est. Design/Construction Costs (Includes 15% Contingency)

## Homer Intersections Planning Study

### Sterling Highway Pedestrian Crossings

10/25/2005 15:59

Work	Quantity	Unit	Unit Cost	Total Cost	Remarks
<b>REMOVALS</b>					
Remove Existing Curb	200	LF	\$9 00	\$1,800	
Unclassified Excavation	0	CY	\$12 00	\$0	
Remove parking meters	0	EA	\$250 00	\$0	
Remove Existing Guardrail	0	LF	\$3 00	\$0	
Remove Existing Pavement	400	SY	\$8 00	\$3,200	
Remove Sidewalk	0	SY	\$7.00	\$0	
<b>INSTALLATIONS</b>					
Fill Material (Subgrade, Borrow A)	0	Ton	\$20 00	\$0	
Asphalt	75	Ton	\$120 00	\$9,000	
Base Course	0	Ton	\$35 00	\$0	
Sidewalk / Pathway	40	LF	\$30 00	\$1,200	
Curb & Gutter	300	LF	\$20 00	\$6,000	
Curb Ramp	2	EA	\$900 00	\$1,800	
End Section	0	EA	\$500 00	\$0	
Culvert, 24"	0	LF	\$45 00	\$0	
Inlet	0	EA	\$3,000.00	\$0	
<b>TRAFFIC CONTROL</b>					
Relocated Signal Pole, Foundation	0	EA	\$5,000 00	\$0	
Relocated Electroliers	0	EA	\$3,000 00	\$0	
New Electrolier	0	EA	\$10,000 00	\$0	
New Load Center	0	EA	\$7,000 00	\$0	
Relocated Controller/Foundations	0	EA	\$7,500 00	\$0	
New Controller/Foundation	0	EA	\$25,000 00	\$0	
Relocate Traffic Structure Support	0	EA	\$50,000 00	\$0	
New Junction Boxes	0	EA	\$1,100 00	\$0	
Loop Detectors	0	EA	\$1,200 00	\$0	
New Traffic Signal Wiring	0	EA	\$7,500 00	\$0	
New Signal Pole, Heads, Signs	0	EA	\$35,000 00	\$0	
New Conduit w/wiring	0	LF	\$30 00	\$0	
Remove Pole & Foundation	0	EA	\$2,000 00	\$0	
Signing	4	EA	\$800 00	\$3,200	
Striping	400	LF	\$2 00	\$800	
Preformed Symbols	0	EA	\$600.00	\$0	
<b>OTHER</b>					
Erosion/Pollution Control		LS	All Req'd	\$270	1% of pay items
Field Office		LS	All Req'd	\$0	
Traffic Maintenance		LS	All Req'd	\$4,050	15% of pay items
Construction Surveying		LS	All Req'd	\$1,620	6% of pay items
Mobilization/Demobilization		LS	All Req'd	\$3,510	13% of pay items
<b>CONSTRUCTION CONTRACT COST</b>			Subtotal	\$36,450	
<b>UTILITIES</b>					
Utility Preliminary Design	0	LS	All Req'd		
Gas Line Relocate	0	LS	\$1,500 00	\$0	
Cable Television Relocate	0	LS	\$30,000 00	\$0	
Underground Telephone Relocate	0	LS	\$30,000 00	\$0	
Underground Electric Relocate	0	LF	\$5 10	\$0	
Hydrant Relocate	0	EA	\$15,000 00	\$0	
Sewerline Relocate	0	LF	\$150 00	\$0	
Overhead Electric Relocate	0	LS	\$50,000.00	\$0	
			Utilities Subtotal	\$0	
<b>COST ESTIMATE SUMMARY</b>					
Reconnaissance Study		LS	All Req'd	\$0	
Preliminary Design		LS	All Req'd	\$4,000	
Right-of-Way	0	LS	\$5,688 00	\$0	
Utilities		LS	All Req'd	\$0	
Construction		LS		\$36,000	
Contract Administration		LS	' @ 15%	\$5,000	
ICAP		LS	@5 5% of all		
<b>Intersection:</b>					
Sterling Highway Pedestrian Crossings			<b>Total:</b>	<b>\$51,750</b>	Est Design/Construction Costs (Includes 15% Contingency)



