Table 3.1 Engineers Opinion of Probable Cost - Option 1-Alternative 1 (Pond Top: 4957) John Street Pond Feasibility Study					
Item No.		Quantity	Unit	Estimate Unit Price	Estimate Amount
	Phase 1				
4.01	Constuction Staking, complete	1.43%	LS	$ 3,485,366.00	$ 49,841
6.01	Construction project signs, per contract special provisions	2	EA	$ 821.57	$ 1,643
19.01	Construction Traffic Control and Barricading, compl.	3.43%	LS	$ 3,485,366.00	$ 119,548
30.01	Flood protection, cip.	0.37%	LS	$ 3,485,366.00	$ 12,896
30.02	Temporary Pollution Control: NPDES and SWPPP Preparation and Maintenance, Complete	0.63%	LS	$ 3,485,366.00	$ 21,958
201.01	Site Clearing and Grubbing, compl.	4	AC	$ 2,364.12	$ 9,456
202.011	Excavate and dispose of unsuitable material, compl.	15228	CY	$ 16.30	$ 248,214
301.02	Subgrade Prep, 12" at 95% compaction, C.I.P	6372	SY	$ 4.08	$ 25,999
336.025	Asphalt Concrete, 3-1/2" thick, superpave	5098	SY	$ 29.25	$ 149,113
340.05	Curb & gutter, standard, portland cement concrete, incl. subgrade preparation, cip, SD 2415	545	LF	$ 29.27	$ 15,952
343.03	Existing Pavement, Asphault Concrete, more than 4" thick, sawcut, remove & dispose, compl.	3963	SY	$ 14.27	$ 56,554
343.08	Existing Curb and Gutter or Valley Gutter, PC Concrete, remove and dispose, compl.	220	LF	$ 9.59	$ 2,110
605.03	8" PCC Shotcrete 4000 psi, incl. reinforcement and subgrade prep	3174	SY	$ 137.61	$ 436,744
701.1	Trenching, backfilling, & compaction, 18" to 36" sewer pipe, up to 8' in depth, pipe not incl., compl.	192	LF	$ 38.32	$ 7,357
701.22	Trenching, backfilling, & compaction, over 60" sewer pipe, 16' to 20' in depth, pipe not incl., compl.	831	LF	$ 130.43	$ 108,387
710.xxx	Pump Station Primary Force Main - 24", cip to Broadway Blvd	800	LF	$ 300.00	$ 240,000
910.009	24" Storm Drain RCP Type III furnish and place in trench, cip.laterals	192	LF	$ 67.33	$ 12,927
910.027	66" Storm Drain RCP Type III furnish and place in trench, cip.Williams St to Thaxton into John Street Pond	831	LF	$ 438.31	$ 364,236
910.103	Drainline removal, 10" to 18", excl. trenching, compl.	83	LF	$ 29.48	$ 2,447
910.104	Drainline removal, 21" to 48", excl. trenching, compl.	45	LF	$ 27.47	$ 1,236
910.105	Drainline removal, greater than 48", excl. trenching, compl.	360	LF	$ 97.83	$ 35,219
915.020	Catch Basin, Type "A", single grate, cip, SD 2201	6	EA	$ 9,578.77	$ 57,473
915.070	Catch basin, existing, remove and dispose, any type, incl. cleanup, compl. SD 2200.	5	EA	$ 1,157.60	$ 5,788
921.590	Existing storm drain junction box, remove and dispose, cip.	2	EA	$ 3,200.00	$ 6,400
xxx.xxx	Pump Station, electrical, building, controls, valve vault, site grading, crane, rails, fittings, bar screen, complete. See Appendix 3, Table 3.5 for pump station breakdown. Assumed Configuration 3 in this cost, will depend on COA approval.	1	LS	$ 574,000.00	$ 574,000
xxx.xxx	Pond bottom inlet openings for ground water flow through the bottom of the pond	6	EA	$ 10,000.00	$ 60,000
xxx.xxx	66" Storm Drain Junction Box in Williams & Thaxton (12'-19' deep) Junction box to cone shape structure, subgrade incl., cip.	3	EA	$ 40,000.00	$ 120,000
				Phase 1 Construction Subtotal:	$ 2,745,498
COA 6.05 & 6.06	Mobilization & Demobilization: Comply., Not to exceed 5% of the sub-total	4.56%	LS	$ 2,745,498	$ 125,195
	Phase 1 Construction Subtotal With Mobilization and Demobilization:				$ 2,870,693
	35% Contingency				$ 1,004,742
	NMGRT - City of Albuquerque @ 7.625%				$ 218,890
				Phase 1 Total:	**$ 4,094,325**

Table 3.1 Engineers Opinion of Probable Cost - Option 1-Alternative 1 (Pond Top: 4957) John Street Pond Feasibility Study					
Item No.		Quantity	Unit	Estimate Unit Price	Estimate Amount
	Phase 2				
4.01	Constuction Staking, complete	1.43%	LS	$ 2,580,885.00	$ 36,907
6.01	Construction project signs, per contract special provisions	2	EA	$ 821.57	$ 1,643
19.01	Construction Traffic Control and Barricading, compl.	3.43%	LS	$ 2,580,885.00	$ 88,524
30.01	Flood protection, cip.	0.37%	LS	$ 2,580,885.00	$ 9,549
30.02	Temporary Pollution Control: NPDES and SWPPP Preparation and Maintenance, Complete	0.63%	LS	$ 2,580,885.00	$ 16,260
202.011	Excavate and dispose of unsuitable material, compl.	4872	CY	$ 16.30	$ 79,418
204.01	Fill, construction, incl. excavation, placement and compaction of unclassified material, over 2ft. Deep, cip.	14033	CY	$ 18.75	$ 263,127
205.01	Borrow, hauling & compaction of suitable fill material when not obtained from within limits of construction, compl.	10250	CY	$ 16.30	$ 167,075
301.02	Subgrade Prep, 12" at 95% compaction, C.I.P	3238	SY	$ 4.08	$ 13,211
302.01	Aggregate Base Course, crushed, 6" at 95% compaction, cip. SD 2408	2600	SY	$ 11.41	$ 29,665
336.025	Asphalt Concrete, 3-1/2" thick, superpave	3079	SY	$ 29.25	$ 90,056
340.05	Curb & gutter, standard, portland cement concrete, incl. subgrade preparation, cip, SD 2415	160	LF	$ 29.27	$ 4,683
343.03	Existing Pavement, Asphault Concrete, more than 4" thick, sawcut, remove & dispose, compl.	3079	SY	$ 14.27	$ 43,935
343.08	Existing Curb and Gutter or Valley Gutter, PC Concrete, remove and dispose, compl.	160	LF	$ 9.59	$ 1,534
410.xxx	Site fencing for both phases of projects	2500	LF	$ 50.00	$ 125,000
410.xxx	Site gates for maintainence roads, access roads and to site	5	EA	$ 5,000.00	$ 25,000
510.11	Structural, Reinforced PC Concrete, 4000 psi, incl. formwork, cip.	21	CY	$ 1,001.96	$ 21,041
520.01	Structural steel, fabricated, incl. welding, cutting, drilling, etc., cip.	1420	LB	$ 3.05	$ 4,331
603.02	Riprap, Type H, 2ft thick at inlet of pond	80	CY	$ 326.09	$ 26,087
605.01	6" PCC Shotcrete 4000 psi, incl. reinforcement and subgrade prep	470	SY	$ 120.33	$ 56,582
701.1	Trenching, backfilling, & compaction, 18" to 36" sewer pipe, up to 8' in depth, pipe not incl., compl.	2073	EA	$ 38.32	$ 79,437
701.210	Trenching, backfilling, & compaction, over 60" sewer pipe, up to 12'-16' in depth, pipe not incl., compl.	653	LF	$ 78.26	$ 51,104
910.013	30" Reinforced Concrete Pipe, Class III, furnish & place in open trench, cip.	700	LF	$ 101.39	$ 70,973
910.017	36" Reinforced Concrete Pipe, Class III, furnish & place in open trench, cip.	230	LF	$ 143.77	$ 33,067
910.027	66" Reinforced Concrete Pipe, Class III, furnish & place in open trench, cip.	550	LF	$ 438.31	$ 241,071
910.029	72" Reinforced Concrete Pipe, Class III, furnish & place in open trench, cip.	103	LF	$ 599.93	$ 61,793
910.103	Drainline removal, 10" to 18", excl. trenching, compl.	43	LF	$ 29.48	$ 1,268
910.104	Drainline removal, 21" to 48", excl. trenching, compl.	1100	LF	$ 27.47	$ 30,217
915.02	Catch Basin, Type "A", single grate, cip, SD 2201	6	EA	$ 9,578.77	$ 57,473
915.07	Catch basin, existing, remove and dispose, any type, incl. cleanup, compl. SD 2200.	2	EA	$ 1,157.60	$ 2,315
920.14	MH, 6' dia. Type C or E, 6-10' deep, CIP	5	EA	$ 8,315.18	$ 41,576
920.57	Existing Manhole (Barelas Ditch/John Street), remove and dispose, all depths, 4' to 6' dia., CIP.	5	EA	$ 1,447.01	$ 7,235
1005.32	Gravel mulch 2"-4" canyon gold, including filter fabric, complete in place.	6722	SY	$ 17.25	$ 115,954
xxx.xxx	66" Storm Drain Junction Box in John Street and Thaxton Avenue (12' deep) Junction box to cone shape structure, subgrade incl., cip.	5	EA	$ 30,000.00	$ 150,000
xxx.xxx	Outlet End Structure for SD from John Street into pond	1	EA	$ 20,000.00	$ 20,000
				Phase 2 Construction Subtotal:	$ 2,067,111
COA 6.05 & 6.06	Mobilization & Demobilization: Comply., Not to exceed 5% of the sub-total	4.56%	LS	$2,067,111	$ 94,260
	Phase 2 Construction Subtotal With Mobilization and Demobilization:				$ 2,161,371
	35% Contingency				$ 756,480
	NMGRT - City of Albuquerque @ 7.625%				$ 164,805
				Phase 2 Subtotal	$ 3,082,655
	Phases 1 & 2 Total:				**$ 7,177,000**

Assumptions:
2023 COA City Engineer's Estimated Unit Prices

Table 3.2 Engineers Opinion of Probable Cost - Option 1-Alternative 2 (Pond Top: 4957) John Street Pond Feasibility Study					
Item No.		Quantity	Unit	Estimate Unit Price	Estimate Amount
	Phase 1				
4.01	Constuction Staking, complete	1.43%	LS	$ 3,485,366.00	$ 49,841
6.01	Construction project signs, per contract special provisions	2	EA	$ 821.57	$ 1,643
19.01	Construction Traffic Control and Barricading, compl.	3.43%	LS	$ 3,485,366.00	$ 119,548
30.01	Flood protection, cip.	0.37%	LS	$ 3,485,366.00	$ 12,896
30.02	Temporary Pollution Control: NPDES and SWPPP Preparation and Maintenance, Complete	0.63%	LS	$ 3,485,366.00	$ 21,958
201.01	Site Clearing and Grubbing, compl.	4	AC	$ 2,364.12	$ 9,456
202.011	Excavate and dispose of unsuitable material, compl.	15228	CY	$ 16.30	$ 248,214
301.02	Subgrade Prep, 12" at 95% compaction, C.I.P	6372	SY	$ 4.08	$ 25,999
336.025	Asphalt Concrete, 3-1/2" thick, superpave	5098	SY	$ 29.25	$ 149,113
340.05	Curb & gutter, standard, portland cement concrete, incl. subgrade preparation, cip, SD 2415	545	LF	$ 29.27	$ 15,952
343.03	Existing Pavement, Asphault Concrete, more than 4" thick, sawcut, remove & dispose, compl.	3963	SY	$ 14.27	$ 56,554
343.08	Existing Curb and Gutter or Valley Gutter, PC Concrete, remove and dispose, compl.	220	LF	$ 9.59	$ 2,110
605.03	8" PCC Shotcrete 4000 psi, incl. reinforcement and subgrade prep	3174	SY	$ 137.61	$ 436,744
701.1	Trenching, backfilling, & compaction, 18" to 36" sewer pipe, up to 8' in depth, pipe not incl., compl.	192	LF	$ 38.32	$ 7,357
701.22	Trenching, backfilling, & compaction, over 60" sewer pipe, 16' to 20' in depth, pipe not incl., compl.	831	LF	$ 130.43	$ 108,387
710.xxx	Pump Station Primary Force Main - 24", cip	800	LF	$ 300.00	$ 240,000
910.009	24" Storm Drain RCP Type III furnish and place in trench, cip.laterals	192	LF	$ 67.33	$ 12,927
910.027	66" Storm Drain RCP Type III furnish and place in trench, cip.Williams St to Thaxton into John Street Pond	831	LF	$ 438.31	$ 364,236
910.103	Drainline removal, 10" to 18", excl. trenching, compl.	83	LF	$ 29.48	$ 2,447
910.104	Drainline removal, 21" to 48", excl. trenching, compl.	45	LF	$ 27.47	$ 1,236
910.105	Drainline removal, greater than 48", excl. trenching, compl.	360	LF	$ 97.83	$ 35,219
915.020	Catch Basin, Type "A", single grate, cip, SD 2201	6	EA	$ 9,578.77	$ 57,473
915.070	Catch basin, existing, remove and dispose, any type, incl. cleanup, compl. SD 2200.	5	EA	$ 1,157.60	$ 5,788
921.590	Existing storm drain junction box, remove and dispose, cip.	2	EA	$ 3,200.00	$ 6,400
xxx.xxx	Pump Station, electrical, building, controls, valve vault, site grading, crane, rails, fittings, bar screen, complete. See Appendix 3, Table 3.5 for pump station breakdown. Assumed Configuration 3 in this cost, will depend on COA approval.	1	LS	$ 574,000.00	$ 574,000
xxx.xxx	Pond bottom inlet openings for ground water flow through the bottom of the pond	6	EA	$ 10,000.00	$ 60,000
xxx.xxx	66" Storm Drain Junction Box in Williams & Thaxton (12'-19' deep) Junction box to cone shape structure, subgrade incl., cip.	3	EA	$ 40,000.00	$ 120,000
				Phase 1 Construction Subtotal:	$ 2,745,498
COA 6.05 & 6.06	Mobilization & Demobilization: Comply., Not to exceed 5% of the sub-total	5.00%	LS	$ 2,745,498	$ 137,275
				Phase 1 Construction Subtotal With Mobilization and Demobilization:	$ 2,882,773
	35% Contingency				$ 1,008,970
	NMGRT - City of Albuquerque @ 7.625%				$ 219,811
				Phase 1 Total:	**$ 4,111,555**

Table 3.2

Engineers Opinion of Probable Cost - Option 1-Alternative 2 (Pond Top: 4957)
John Street Pond Feasibility Study

Item No.		Quantity	Unit	Estimate Unit Price	Estimate Amount
Phase 2					
4.01	Constuction Staking, complete	1.43%	LS	$2,669,857	$ 38,179
6.01	Construction project signs, per contract special provisions	2	EA	$ 821.57	$ 1,643
19.01	Construction Traffic Control and Barricading, compl.	3.43%	LS	$2,669,857	$ 91,576
30.01	Flood protection, cip.	0.37%	LS	$2,669,857	$ 9,878
30.02	Temporary Pollution Control: NPDES and SWPPP Preparation and Maintenance, Complete	0.63%	LS	$2,669,857	$ 16,820
202.011	Excavate and dispose of unsuitable material, compl.	4872	CY	$ 16.30	$ 79,418
204.01	Fill, construction, incl. excavation, placement and compaction of unclassified material, over 2ft. Deep, cip.	14033	CY	$ 18.75	$ 263,127
205.01	Borrow, hauling & compaction of suitable fill material when not obtained from within limits of construction, compl.	10250	CY	$ 16.30	$ 167,075
301.02	Subgrade Prep, 12" at 95% compaction, C.I.P	4527	SY	$ 4.08	$ 18,470
302.01	Aggregate Base Course, crushed, 6" at 95% compaction, cip. SD 2408	2600	SY	$ 11.41	$ 29,665
336.025	Asphalt Concrete, 3-1/2" thick, superpave	4110	SY	$ 29.25	$ 120,217
340.05	Curb & gutter, standard, portland cement concrete, incl. subgrade preparation, cip, SD 2415	160	LF	$ 29.27	$ 4,683
343.03	Existing Pavement, Asphault Concrete, more than 4" thick, sawcut, remove & dispose, compl.	4110	SY	$ 14.27	$ 58,650
343.08	Existing Curb and Gutter or Valley Gutter, PC Concrete, remove and dispose, compl.	120	LF	$ 9.59	$ 1,151
410.xxx	Site fencing for both phases of projects	2500	LF	$ 50.00	$ 125,000
410.xxx	Site gates for maintainence roads, access roads and to site	5	EA	$ 5,000.00	$ 25,000
510.11	Structural, Reinforced PC Concrete, 4000 psi, incl. formwork, cip.	21	CY	$ 1,001.96	$ 21,041
520.01	Structural steel, fabricated, incl. welding, cutting, drilling, etc., cip.	1420	LB	$ 3.05	$ 4,331
603.02	Riprap, Type H, 2ft thick at inlet of pond	80	CY	$ 326.09	$ 26,087
605.01	6" PCC Shotcrete 4000 psi, incl. reinforcement and subgrade prep	546	SY	$ 120.33	$ 65,724
701.1	Trenching, backfilling, & compaction, 18" to 36" sewer pipe, up to 8' in depth, pipe not incl., compl.	1753	EA	$ 38.32	$ 67,175
701.210	Trenching, backfilling, & compaction, over 60" sewer pipe, up to 12'-16' in depth, pipe not incl., compl.	703	LF	$ 78.26	$ 55,017
910.013	30" Reinforced Concrete Pipe, Class III, furnish & place in open trench, cip.	700	LF	$ 101.39	$ 70,973
910.017	36" Reinforced Concrete Pipe, Class III, furnish & place in open trench, cip.	230	LF	$ 143.77	$ 33,067
910.027	66" Reinforced Concrete Pipe, Class III, furnish & place in open trench, cip.	600	LF	$ 438.31	$ 262,986
910.029	72" Reinforced Concrete Pipe, Class III, furnish & place in open trench, cip.	103	LF	$ 599.93	$ 61,793
910.103	Drainline removal, 10" to 18", excl. trenching, compl.	43	LF	$ 29.48	$ 1,268
910.104	Drainline removal, 21" to 48", excl. trenching, compl.	780	LF	$ 27.47	$ 21,427
915.02	Catch Basin, Type "A", single grate, cip, SD 2201	6	EA	$ 9,578.77	$ 57,473
915.07	Catch basin, existing, remove and dispose, any type, incl. cleanup, compl. SD 2200.	2	EA	$ 1,157.60	$ 2,315
920.14	MH, 6' dia. Type C or E, 6-10' deep, CIP	5	EA	$ 8,315.18	$ 41,576
920.57	Existing Manhole (Barelas Ditch/John Street), remove and dispose, all depths, 4' to 6' dia., CIP.	5	EA	$ 1,447.01	$ 7,235
1005.32	Gravel mulch 2"-4" canyon gold, including filter fabric, complete in place.	6722	SY	$ 17.25	$ 115,954
xxx.xxx	66" Storm Drain Junction Box in John Street and Thaxton Avenue (12' deep) Junction box to cone shape structure, subgrade incl., cip.	4	EA	$ 30,000.00	$ 120,000
xxx.xxx	Outlet End Structure for SD from John Street into pond	1	EA	$ 20,000.00	$ 20,000
				Phase 2 Construction Subtotal:	$ 2,105,993
COA 6.05 & 6.06	Mobilization & Demobilization: Comply., Not to exceed 5% of the sub-total	5.00%	LS	$2,105,993	$ 105,300
	Phase 2 Construction Subtotal With Mobilization and Demobilization:				$ 2,211,292
	35% Contingency				$ 773,952
	NMGRT - City of Albuquerque @ 7.625%				$ 168,611
				Phase 2 Subtotal	$ 3,153,856
	Phases 1 & 2 Total:				**$ 7,266,000**

Assumptions:
2023 COA City Engineer's Estimated Unit Prices

Table 3.3

Engineers Opinion of Probable Cost - Option 2-Alternative 1 (Pond Top: 4957)

John Street Pond Feasibility Study

Item No.		Quantity	Unit	Estimate Unit Price	Estimate Amount
	Phase 1				
4.01	Constuction Staking, complete	1.43%	LS	$ 3,485,366.00	$ 49,841
6.01	Construction project signs, per contract special provisions	2	EA	$ 821.57	$ 1,643
19.01	Construction Traffic Control and Barricading, compl.	3.43%	LS	$ 3,485,366.00	$ 119,548
30.01	Flood protection, cip.	0.37%	LS	$ 3,485,366.00	$ 12,896
30.02	Temporary Pollution Control: NPDES and SWPPP Preparation and Maintenance, Complete	0.63%	LS	$ 3,485,366.00	$ 21,958
201.01	Site Clearing and Grubbing, compl.	4	AC	$ 2,364.12	$ 9,456
202.011	Excavate and dispose of unsuitable material, compl.	15228	CY	$ 16.30	$ 248,214
301.02	Subgrade Prep, 12" at 95% compaction, C.I.P	6372	SY	$ 4.08	$ 25,999
336.025	Asphalt Concrete, 3-1/2" thick, superpave	5098	SY	$ 29.25	$ 149,113
340.05	Curb & gutter, standard, portland cement concrete, incl. subgrade preparation, cip, SD 2415	545	LF	$ 29.27	$ 15,952
343.03	Existing Pavement, Asphault Concrete, more than 4" thick, sawcut, remove & dispose, compl.	3963	SY	$ 14.27	$ 56,554
343.08	Existing Curb and Gutter or Valley Gutter, PC Concrete, remove and dispose, compl.	220	LF	$ 9.59	$ 2,110
605.03	8" PCC Shotcrete 4000 psi, incl. reinforcement and subgrade prep	3174	SY	$ 137.61	$ 436,744
701.1	Trenching, backfilling, & compaction, 18" to 36" sewer pipe, up to 8' in depth, pipe not incl., compl.	192	LF	$ 38.32	$ 7,357
701.22	Trenching, backfilling, & compaction, over 60" sewer pipe, 16' to 20' in depth, pipe not incl., compl.	831	LF	$ 130.43	$ 108,387
710.xxx	Pump Station Primary Force Main - 24", cip	800	LF	$ 300.00	$ 240,000
910.009	24" Storm Drain RCP Type III furnish and place in trench, cip.laterals	192	LF	$ 67.33	$ 12,927
910.027	66" Storm Drain RCP Type III furnish and place in trench, cip.Williams St to Thaxton into John Street Pond	831	LF	$ 438.31	$ 364,236
910.103	Drainline removal, 10" to 18", excl. trenching, compl.	83	LF	$ 29.48	$ 2,447
910.104	Drainline removal, 21" to 48", excl. trenching, compl.	45	LF	$ 27.47	$ 1,236
910.105	Drainline removal, greater than 48", excl. trenching, compl.	360	LF	$ 97.83	$ 35,219
915.020	Catch Basin, Type "A", single grate, cip, SD 2201	6	EA	$ 9,578.77	$ 57,473
915.070	Catch basin, existing, remove and dispose, any type, incl. cleanup, compl. SD 2200.	5	EA	$ 1,157.60	$ 5,788
921.590	Existing storm drain junction box, remove and dispose, cip.	2	EA	$ 3,200.00	$ 6,400
xxx.xxx	Pump Station, electrical, building, controls, valve vault, site grading, crane, rails, fittings, bar screen, complete. See Appendix 3, Table 3.5 for pump station breakdown. Assumed Configuration 3 in this cost, will depend on COA approval.	1	LS	$ 574,000.00	$ 574,000
xxx.xxx	Pond bottom inlet openings for ground water flow through the bottom of the pond	6	EA	$ 10,000.00	$ 60,000
xxx.xxx	66" Storm Drain Junction Box in Williams & Thaxton (12'-19' deep) Junction box to cone shape structure, subgrade incl., cip.	3	EA	$ 40,000.00	$ 120,000
				Phase 1 Construction Subtotal:	$ 2,745,498
COA 6.05 & 6.06	Mobilization & Demobilization: Comply., Not to exceed 5% of the sub-total	5.00%	LS	$ 2,745,498	$ 137,275
	Phase 1 Construction Subtotal With Mobilization and Demobilization:				$ 2,882,773
	35% Contingency				$ 1,008,970
	NMGRT - City of Albuquerque @ 7.625%				$ 219,811
				Phase 1 Total:	**$ 4,111,555**

Table 3.3 Engineers Opinion of Probable Cost - Option 2-Alternative 1 (Pond Top: 4957) John Street Pond Feasibility Study					
Item No.		Quantity	Unit	Estimate Unit Price	Estimate Amount
Phase 2					
4.01	Constuction Staking, complete	1.43%	LS	$2,122,639	$ 30,354
6.01	Construction project signs, per contract special provisions	2	EA	$ 821.57	$ 1,643
19.01	Construction Traffic Control and Barricading, compl.	3.43%	LS	$2,122,639	$ 72,807
30.01	Flood protection, cip.	0.37%	LS	$2,122,639	$ 7,854
30.02	Temporary Pollution Control: NPDES and SWPPP Preparation and Maintenance, Complete	0.63%	LS	$2,122,639	$ 13,373
202.011	Excavate and dispose of unsuitable material, compl.	922	CY	$ 16.30	$ 15,035
204.01	Fill, construction, incl. excavation, placement and compaction of unclassified material, over 2ft. Deep, cip.	9075	CY	$ 18.75	$ 170,153
205.01	Borrow, hauling & compaction of suitable fill material when not obtained from within limits of construction, compl.	10250	CY	$ 16.30	$ 167,075
301.02	Subgrade Prep, 12" at 95% compaction, C.I.P	3238	SY	$ 4.08	$ 13,211
302.01	Aggregate Base Course, crushed, 6" at 95% compaction, cip. SD 2408	2600	SY	$ 11.41	$ 29,665
336.025	Asphalt Concrete, 3-1/2" thick, superpave	2590	SY	$ 29.25	$ 75,769
340.05	Curb & gutter, standard, portland cement concrete, incl. subgrade preparation, cip, SD 2415	160	LF	$ 29.27	$ 4,683
343.03	Existing Pavement, Asphault Concrete, more than 4" thick, sawcut, remove & dispose, compl.	2590	SY	$ 14.27	$ 36,965
343.08	Existing Curb and Gutter or Valley Gutter, PC Concrete, remove and dispose, compl.	120	LF	$ 9.59	$ 1,151
410.xxx	Site fencing for both phases of projects	2500	LF	$ 50.00	$ 125,000
410.xxx	Site gates for maintainence roads, access roads and to site	5	EA	$ 5,000.00	$ 25,000
510.11	Structural, Reinforced PC Concrete, 4000 psi, incl. formwork, cip.	21	CY	$ 1,001.96	$ 21,041
520.01	Structural steel, fabricated, incl. welding, cutting, drilling, etc., cip.	1420	LB	$ 3.05	$ 4,331
603.02	Riprap, Type H, 2.5ft thick at inlet of pond	100	CY	$ 326.09	$ 32,609
605.01	6" PCC Shotcrete 4000 psi, incl. reinforcement and subgrade prep	470	SY	$ 120.33	$ 56,582
701.1	Trenching, backfilling, & compaction, 18" to 36" sewer pipe, up to 8' in depth, pipe not incl., compl.	651	EA	$ 38.32	$ 24,946
701.210	Trenching, backfilling, & compaction, over 60" sewer pipe, up to 12'-16' in depth, pipe not incl., compl.	653	LF	$ 78.26	$ 51,104
910.009	24" Reinforced Concrete Pipe, Class III, furnish & place in open trench, cip.	304	LF	$ 67.33	$ 20,468
910.027	66" Reinforced Concrete Pipe, Class III, furnish & place in open trench, cip.	550	LF	$ 438.31	$ 241,071
910.029	72" Reinforced Concrete Pipe, Class III, furnish & place in open trench, cip.	103	LF	$ 599.93	$ 61,793
910.103	Drainline removal, 10" to 18", excl. trenching, compl.	43	LF	$ 29.48	$ 1,268
910.104	Drainline removal, 21" to 48", excl. trenching, compl.	304	LF	$ 27.47	$ 8,351
915.02	Catch Basin, Type "A", single grate, cip, SD 2201	6	EA	$ 9,578.77	$ 57,473
915.07	Catch basin, existing, remove and dispose, any type, incl. cleanup, compl. SD 2200.	2	EA	$ 1,157.60	$ 2,315
920.14	MH, 6' dia. Type C or E, 6-10' deep, CIP	3	EA	$ 8,315.18	$ 24,946
920.57	Existing Manhole (Barelas Ditch/John Street), remove and dispose, all depths, 4' to 6' dia., CIP.	2	EA	$ 1,447.01	$ 2,894
1005.32	Gravel mulch 2"-4" canyon gold, including filter fabric, complete in place.	5243	SY	$ 17.25	$ 90,435
xxx.xxx	66" Storm Drain Junction Box in John Street and Thaxton Avenue (12' deep) Junction box to cone shape structure, subgrade incl., cip.	5	EA	$ 30,000.00	$ 150,000
xxx.xxx	Outlet End Structure for SD from John Street into pond	1	EA	$ 20,000.00	$ 20,000
				Phase 2 Construction Subtotal:	$ 1,661,362
COA 6.05 & 6.06	Mobilization & Demobilization: Comply., Not to exceed 5% of the sub-total	5.00%	LS	$1,661,362	$ 83,068
	Phase 2 Construction Subtotal With Mobilization and Demobilization:				$ 1,744,430
	35% Contingency				$ 610,550
	NMGRT - City of Albuquerque @ 7.625%				$ 133,013
				Phase 2 Subtotal	$ 2,487,993
	Phases 1 & 2 Total:				**$ 6,600,000**

Assumptions:

2023 COA City Engineer's Estimated Unit Prices

Table 3.4

Engineers Opinion of Probable Cost - Option 2-Alternative 2 (Pond Top: 4957)

John Street Pond Feasibility Study

Item No.		Quantity	Unit	Estimate Unit Price	Estimate Amount
	Phase 1				
4.01	Constuction Staking, complete	1.43%	LS	$ 3,485,366.00	$ 49,841
6.01	Construction project signs, per contract special provisions	2	EA	$ 821.57	$ 1,643
19.01	Construction Traffic Control and Barricading, compl.	3.43%	LS	$ 3,485,366.00	$ 119,548
30.01	Flood protection, cip.	0.37%	LS	$ 3,485,366.00	$ 12,896
30.02	Temporary Pollution Control: NPDES and SWPPP Preparation and Maintenance, Complete	0.63%	LS	$ 3,485,366.00	$ 21,958
201.01	Site Clearing and Grubbing, compl.	4	AC	$ 2,364.12	$ 9,456
202.011	Excavate and dispose of unsuitable material, compl.	15228	CY	$ 16.30	$ 248,214
301.02	Subgrade Prep, 12" at 95% compaction, C.I.P	6372	SY	$ 4.08	$ 25,999
336.025	Asphalt Concrete, 3-1/2" thick, superpave	5098	SY	$ 29.25	$ 149,113
340.05	Curb & gutter, standard, portland cement concrete, incl. subgrade preparation, cip, SD 2415	545	LF	$ 29.27	$ 15,952
343.03	Existing Pavement, Asphault Concrete, more than 4" thick, sawcut, remove & dispose, compl.	3963	SY	$ 14.27	$ 56,554
343.08	Existing Curb and Gutter or Valley Gutter, PC Concrete, remove and dispose, compl.	220	LF	$ 9.59	$ 2,110
605.03	8" PCC Shotcrete 4000 psi, incl. reinforcement and subgrade prep	3174	SY	$ 137.61	$ 436,744
701.1	Trenching, backfilling, & compaction, 18" to 36" sewer pipe, up to 8' in depth, pipe not incl., compl.	192	LF	$ 38.32	$ 7,357
701.22	Trenching, backfilling, & compaction, over 60" sewer pipe, 16' to 20' in depth, pipe not incl., compl.	831	LF	$ 130.43	$ 108,387
710.xxx	Pump Station Primary Force Main - 24", cip	800	LF	$ 300.00	$ 240,000
910.009	24" Storm Drain RCP Type III furnish and place in trench, cip.laterals	192	LF	$ 67.33	$ 12,927
910.027	66" Storm Drain RCP Type III furnish and place in trench, cip.Williams St to Thaxton into John Street Pond	831	LF	$ 438.31	$ 364,236
910.103	Drainline removal, 10" to 18", excl. trenching, compl.	83	LF	$ 29.48	$ 2,447
910.104	Drainline removal, 21" to 48", excl. trenching, compl.	45	LF	$ 27.47	$ 1,236
910.105	Drainline removal, greater than 48", excl. trenching, compl.	360	LF	$ 97.83	$ 35,219
915.020	Catch Basin, Type "A", single grate, cip, SD 2201	6	EA	$ 9,578.77	$ 57,473
915.070	Catch basin, existing, remove and dispose, any type, incl. cleanup, compl. SD 2200.	5	EA	$ 1,157.60	$ 5,788
921.590	Existing storm drain junction box, remove and dispose, cip.	2	EA	$ 3,200.00	$ 6,400
xxx.xxx	Pump Station, electrical, building, controls, valve vault, site grading, crane, rails, fittings, bar screen, complete. See Appendix 3, Table 3.5 for pump station breakdown. Assumed Configuration 3 in this cost, will depend on COA approval.	1	LS	$ 574,000.00	$ 574,000
xxx.xxx	Pond bottom inlet openings for ground water flow through the bottom of the pond	6	EA	$ 10,000.00	$ 60,000
xxx.xxx	66" Storm Drain Junction Box in Williams & Thaxton (12'-19' deep) Junction box to cone shape structure, subgrade incl., cip.	3	EA	$ 40,000.00	$ 120,000
				Phase 1 Construction Subtotal:	$ 2,745,498
COA 6.05 & 6.06	Mobilization & Demobilization: Comply., Not to exceed 5% of the sub-total	5.00%	LS	$ 2,745,498	$ 137,275
				Phase 1 Construction Subtotal With Mobilization and Demobilization:	$ 2,882,773
	35% Contingency				$ 1,008,970
	NMGRT - City of Albuquerque @ 7.625%				$ 219,811
				Phase 1 Total:	**$ 4,112,000**

Table 3.4 Engineers Opinion of Probable Cost - Option 2-Alternative 2 (Pond Top: 4957) John Street Pond Feasibility Study					
Item No.		Quantity	Unit	Estimate Unit Price	Estimate Amount
Phase 2					
4.01	Constuction Staking, complete	1.43%	LS	$2,279,451	$ 32,596
6.01	Construction project signs, per contract special provisions	2	EA	$ 821.57	$ 1,643
19.01	Construction Traffic Control and Barricading, compl.	3.43%	LS	$2,279,451	$ 78,185
30.01	Flood protection, cip.	0.37%	LS	$2,279,451	$ 8,434
30.02	Temporary Pollution Control: NPDES and SWPPP Preparation and Maintenance, Complete	0.63%	LS	$2,279,451	$ 14,361
202.011	Excavate and dispose of unsuitable material, compl.	922	CY	$ 16.30	$ 15,035
204.01	Fill, construction, incl. excavation, placement and compaction of unclassified material, over 2ft. Deep, cip.	9075	CY	$ 18.75	$ 170,153
205.01	Borrow, hauling & compaction of suitable fill material when not obtained from within limits of construction, compl.	10250	CY	$ 16.30	$ 167,075
301.02	Subgrade Prep, 12" at 95% compaction, C.I.P	4527	SY	$ 4.08	$ 18,470
302.01	Aggregate Base Course, crushed, 6" at 95% compaction, cip. SD 2408	2600	SY	$ 11.41	$ 29,665
336.025	Asphalt Concrete, 3-1/2" thick, superpave	3622	SY	$ 29.25	$ 105,930
340.05	Curb & gutter, standard, portland cement concrete, incl. subgrade preparation, cip, SD 2415	120	LF	$ 29.27	$ 3,512
343.03	Existing Pavement, Asphault Concrete, more than 4" thick, sawcut, remove & dispose, compl.	3622	SY	$ 14.27	$ 51,679
343.08	Existing Curb and Gutter or Valley Gutter, PC Concrete, remove and dispose, compl.	160	LF	$ 9.59	$ 1,534
410.xxx	Site fencing for both phases of projects	2500	LF	$ 50.00	$ 125,000
410.xxx	Site gates for maintainence roads, access roads and to site	5	EA	$ 5,000.00	$ 25,000
510.11	Structural, Reinforced PC Concrete, 4000 psi, incl. formwork, cip.	21	CY	$ 1,001.96	$ 21,041
520.01	Structural steel, fabricated, incl. welding, cutting, drilling, etc., cip.	1420	LB	$ 3.05	$ 4,331
603.02	Riprap, Type H, 2.5ft thick at inlet of pond	100	CY	$ 326.09	$ 32,609
605.01	6" PCC Shotcrete 4000 psi, incl. reinforcement and subgrade prep	546	SY	$ 120.33	$ 65,724
701.1	Trenching, backfilling, & compaction, 18" to 36" sewer pipe, up to 8' in depth, pipe not incl., compl.	651	EA	$ 38.32	$ 24,946
701.210	Trenching, backfilling, & compaction, over 60" sewer pipe, up to 12'-16' in depth, pipe not incl., compl.	703	LF	$ 78.26	$ 55,017
910.009	24" Reinforced Concrete Pipe, Class III, furnish & place in open trench, cip.	304	LF	$ 67.33	$ 20,468
910.027	66" Reinforced Concrete Pipe, Class III, furnish & place in open trench, cip.	600	LF	$ 438.31	$ 262,986
910.029	72" Reinforced Concrete Pipe, Class III, furnish & place in open trench, cip.	103	LF	$ 599.93	$ 61,793
910.103	Drainline removal, 10" to 18", excl. trenching, compl.	43	LF	$ 29.48	$ 1,268
910.104	Drainline removal, 21" to 48", excl. trenching, compl.	304	LF	$ 27.47	$ 8,351
915.02	Catch Basin, Type "A", single grate, cip, SD 2201	6	EA	$ 9,578.77	$ 57,473
915.07	Catch basin, existing, remove and dispose, any type, incl. cleanup, compl. SD 2200.	2	EA	$ 1,157.60	$ 2,315
920.14	MH, 6' dia. Type C or E, 6-10' deep, CIP	3	EA	$ 8,315.18	$ 24,946
920.57	Existing Manhole (Barelas Ditch/John Street), remove and dispose, all depths, 4' to 6' dia., CIP.	2	EA	$ 1,447.01	$ 2,894
1005.32	Gravel mulch 2"-4" canyon gold, including filter fabric, complete in place.	6722	SY	$ 17.25	$ 115,956
xxx.xxx	66" Storm Drain Junction Box in John Street and Thaxton Avenue (12' deep) Junction box to cone shape structure, subgrade incl., cip.	5	EA	$ 30,000.00	$ 150,000
xxx.xxx	Outlet End Structure for SD from John Street into pond	1	EA	$ 20,000.00	$ 20,000
				Phase 2 Construction Subtotal:	$ 1,780,389
COA 6.05 & 6.06	Mobilization & Demobilization: Comply., Not to exceed 5% of the sub-total	5.00%	LS	$1,780,389	$ 89,019
	Phase 2 Construction Subtotal With Mobilization and Demobilization:				$ 1,869,408
	35% Contingency				$ 654,293
	NMGRT - City of Albuquerque @ 7.625%				$ 142,542
				Phase 2 Subtotal	$ 2,666,244
	Phases 1 & 2 Total:				**$ 6,779,000**

Assumptions:

2023 COA City Engineer's Estimated Unit Prices

Table 3.5
Pump Station Configuration Cost Estimates
John Street Pond Feasibility Study

Item No.		Quantity	Unit	Estimate Unit Price	Estimate Amount
Configuration 1 – Duplex System					
510.110	Structural, reinforced PC concrete, 4000 psi, incl. formwork, cip. Wet well concrete	45	CY	$ 1,200.00	$ 54,000
520.010	Structural steel, fabricated, incl. welding, cutting, drilling, etc., cip.	1500	LB	$ 4.00	$ 6,000
xxx.xxx	Pump Station - Pump, shipping, startup, guide rail, chain, discharge elbow (Flygt NP3531, 90hp)	2	EA	$ 230,000.00	$ 460,000
xxx.xxx	Pump Station - Pump, shipping, startup, guide rail, chain, discharge elbow (Flygt NP3102, 5hp)	1	EA	$ 20,000.00	$ 20,000
xxx.xxx	Pump Station - FLYGT MAS 801 monitoring system	1	EA	$ 15,000.00	$ 15,000
xxx.xxx	Pump Station - Furnish and install bridge crane	1	EA	$ 25,000.00	$ 25,000
xxx.xxx	Pump Station - Valve vault, piping, fittings, cip.	1	EA	$ 90,000.00	$ 90,000
xxx.xxx	Pump Station - Provide and install mechanical bar screen, cip.	1	EA	$ 25,000.00	$ 25,000
xxx.xxx	Pump Station - Instrumentation and Controls	1	EA	$ 50,000.00	$ 50,000
xxx.xxx	Pump Station - Building, electrical requirements, etc. cip	1500	SQ	$ 300.00	$ 450,000
				Configuration 1 – Duplex System Subtotal:	$ 1,195,000
	Structural Design				$ 35,000
				Configuration 1 – Duplex System Total:	**$ 1,230,000**
Configuration 2 – Triplex System					
510.110	Structural, reinforced PC concrete, 4000 psi, incl. formwork, cip. Wet well concrete	34	CY	$ 1,200.00	$ 40,800
520.010	Structural steel, fabricated, incl. welding, cutting, drilling, etc., cip.	1500	LB	$ 4.00	$ 6,000
xxx.xxx	Pump Station - Pump, shipping, startup, guide rail, chain, discharge elbow (Flygt NP3202, 35hp)	3	EA	$ 72,500.00	$ 217,500
xxx.xxx	Pump Station - Pump, shipping, startup, guide rail, chain, discharge elbow (Flygt NP3102, 5hp)	1	EA	$ 20,000.00	$ 20,000
xxx.xxx	Pump Station - Furnish and install bridge crane	1	EA	$ 25,000.00	$ 25,000
xxx.xxx	Pump Station - Valve vault, piping, fittings, cip.	1	EA	$ 50,000.00	$ 50,000
xxx.xxx	Pump Station - Provide and install mechanical bar screen, cip.	1	EA	$ 25,000.00	$ 25,000
xxx.xxx	Pump Station - Instrumentation and Controls	1	EA	$ 25,000.00	$ 25,000
xxx.xxx	Pump Station - Building, electrical requirements, etc. cip	1500	SQ	$ 300.00	$ 450,000
				Configuration 1 – Duplex System Subtotal:	$ 859,300
	Structural Design				$ 35,000
				Configuration 2 – Triplex System Total:	**$ 894,300**
Configuration 3 – Dual Duplex Stations					
xxx.xxx	Pump Station - Prefabricated Wetwell	2	EA	$ 90,000.00	$ 180,000
xxx.xxx	Pump Station - Pump, shipping, startup, guide rail, chain, discharge elbow (Flygt NP3153, 20hp)	4	EA	$ 41,000.00	$ 164,000
xxx.xxx	Pump Station - Pump, shipping, startup, guide rail, chain, discharge elbow (Flygt NP3102, 5hp)	1	EA	$ 20,000.00	$ 20,000
xxx.xxx	Pump Station - Valve vault, piping, fittings, cip.	1	EA	$ 50,000.00	$ 50,000
xxx.xxx	Pump Station - Provide and install mechanical bar screen, cip.	1	EA	$ 25,000.00	$ 25,000
xxx.xxx	Pump Station - Instrumentation and Controls	1	EA	$ 15,000.00	$ 15,000
xxx.xxx	Pump Station - Building, electrical requirements, etc. cip	400	SQ	$ 300.00	$ 120,000
				Configuration 3 – Dual Duplex Stations	**$ 574,000**

* For all configurations NMGRT and 35% Contingency included in overall Engineers Opinion of Probable Cost (EOPC) for each option and alternative.
**Final costs for control, SCADA systems, enclosures, etc. will be subject to ABCWUA requirements.