

APPENDIX: ITEMIZED CONSTRUCTION COST ESTIMATE

<u>Description</u>	<u>Quantity</u>	<u>Cost</u>	<u>Total Cost</u>
1 CASCADE FALLS			
1a Existing Cascade Falls Upgrades			
Structural Repairs - Steps, Railing, Walls, Pool	Lump Sum	\$500,000	\$500,000
Mechanical Repairs - Plumbing, Vaults/Chambers	Lump Sum	\$400,000	\$400,000
Electrical Upgrades - Sidewalk Lights, Fountain Lights (LED), Special Effects, Wiring	Lump Sum	\$500,000	\$500,000
Acoustics - Synchronized with Electrical/Mechanical	Lump Sum	\$250,000	\$250,000
Perimeter Fencing - 8' Ornamental with Gates	2,000 LF	\$120	\$240,000
Contingency			\$378,000
Engineering, Survey, Permits, Testing			\$340,000
Total:			\$2,608,000
1b Expanded Cascade Falls Area: 9 Features			
Structural/Mechanical	9,000 SF	\$300	\$2,700,000
Electrical - Sidewalk Lights, Fountain Lights (LED), Special Effects, Wiring	Lump Sum	\$350,000	\$500,000
Acoustics - Synchronized with Electrical/Mechanical	Lump Sum	\$250,000	\$250,000
Concrete Pavement - 6" Thick	19,500 SF	\$8	\$156,000
Flagpole - 50' Tall	1 Each	\$20,000	\$20,000
Benches	30 Each	\$1,000	\$30,000
Landscape/Irrigation	Lump Sum	\$100,000	\$100,000
Contingency			\$750,000
Engineering, Survey, Permits, Testing			\$675,000
Total:			\$5,181,000
1c Amphitheater Area			
Site Demolition - Buildings, Pavement, Walls, Seating	Lump Sum	\$100,000	\$100,000
Earthwork	7,000 CY	\$8	\$56,000
Retaining Walls	500 LF	\$750	\$375,000
Concrete Pavement - 6" Thick	52,000 SF	\$8	\$416,000
Concrete Stage	1,600 SF	\$20	\$32,000
Concrete Amphitheater	22,000 SF	\$15	330,000
Seating	2,500 Each	\$150	\$375,000
Lighting/Electrical	Lump Sum	\$125,000	\$125,000
Acoustics	Lump Sum	\$50,000	\$50,000
Ornamental Fencing - 8' tall	550 LF	\$200	\$110,000
Columns	30 Each	\$5,000	\$150,000
Drainage	Lump Sum	\$50,000	\$50,000
Concessions Buildings - 3,000 SF each	2 Each	\$1,050,000	\$2,100,000
Landscape/Irrigation	Lump Sum	\$50,000	\$50,000
Contingency			\$836,000
Engineering, Survey, Permits, Testing			\$777,000
Total:			\$5,932,000
Total Cascade Falls:			\$13,722,000

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2 HISTORIC PAREDO RESTORATION

Vegetation Removal	Lump Sum	\$20,000	\$20,000
Grade Surface of Path and Widen	1,500 LF	\$30	\$45,000
Place Fill Along Perimeter to Raise Grade - 20' Wide	2,200 CY	\$15	\$33,000
Seed and Mulch	2 Acres	\$4,000	\$8,000
Gateway Plaza (Gravel Surface)	21,000 SF	\$1	\$21,000
Historic Benches	16 Each	\$1,000	\$16,000
Gateway Historic Railing	100 LF	\$500	\$50,000
Arched Historic Bridge	3 Each	\$50,000	\$150,000
Landscape	Lump Sum	\$15,000	\$15,000
Contingency			\$71,000
Engineering, Survey, Permits, Testing			<u>\$64,000</u>
Total:			\$493,000

3 CHILDREN'S PLAY AREA

Bituminous Parking Lot by Playground - 30 Stalls, 3" Thick	12,800 SF	\$1.75	\$22,400
Earthwork for Parking Lot	12,800 SF	\$1	\$12,800
Parking Lot Drainage	Lump Sum	\$15,000	\$15,000
Concrete Wheel Stops	30 Each	\$70	\$2,100
Parking Lot Striping and Signage	Lump Sum	\$400	\$400
Bituminous Sidewalk	3,100 SF	\$1.75	\$5,400
Expanded Playground	Lump Sum	\$100,000	\$100,000
Interactive Splash Pool	3,700 SF	\$200	\$740,000
Concrete Splash Pool Patio - 4" Thick	3,600 SF	\$4	\$14,400
Multi-Use Structure - Pool Mechanical, Picnic Shelter and Restrooms	Lump Sum	\$250,000	\$250,000
Picnic Tables	12 Each	\$600	\$7,200
Reconstruct 40 Stall Gravel Lot East of Ice Cream Concessions Building and Install Bituminous Pavement - 3" Thick	17,500 SF	\$2	\$35,000
Concrete Wheel Stops	40 Each	\$70	\$2,800
Parking Lot Striping and Signage	Lump Sum	\$500	\$500
Seed and Mulch	Lump Sum	\$5,000	\$5,000
Contingency			\$242,000
Engineering, Survey, Permits, Testing			<u>\$218,000</u>
Total:			\$1,673,000

4 OPEN FIELD AREA - PASSIVE RECREATION

Disk Golf - Galvanized Steel Deluxe Baskets	9 Each	\$600	\$5,400
Picnic Tables (informal Placement)	15 Each	\$600	\$9,000
Cooking Grills	5 Each	\$600	\$3,000
Contingency			\$3,500
Engineering, Survey, Permits, Testing			<u>\$3,100</u>
Total:			\$24,000

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5 BANDSHELL AND RESTROOMS

Demolition - Parking Lot Pavement Removal	Lump Sum	\$5,000	\$5,000
Resurface Parking Lot - 220 Stalls, 1.5" Lift	56,000 SF	\$1.25	\$70,000
Bituminous Entry Drive - 3" Thick	8,800 SF	\$2	\$17,600
Striping/Signage	Lump Sum	\$4,000	\$4,000
Concrete Sidewalk - 8' Wide, 4" Thick	5,600 SF	\$4	\$22,400
Parking Lot Gate	2 Each	\$5,000	\$10,000
Bandshell Façade Modifications	Lump Sum	\$15,000	\$15,000
Tree Plantings, Seed and Mulch	Lump Sum	\$15,000	\$15,000
Contingency			\$32,000
Engineering, Survey, Permits, Testing			<u>\$28,000</u>
Total:			\$219,000

6 NATURAL AREA - TROUT POND

Pond Dredging - 10' Average Depth	3,700 CY	\$10	\$37,000
Grade Disposal Area	1.5 Acres	\$5,000	\$5,000
Stream Channel Construction - 4' - 5' Wide	800 LF	\$300	\$240,000
Wood Fishing Platform - 40' x 25'	1,000 SF	\$50	\$50,000
Picnic Shelter - 30' x 60'	1 Each	\$80,000	\$80,000
Concrete Pavement for Picnic Shelter	2800 SF	\$4	\$11,200
Sidewalk 5' Wide	750 SF	\$4	\$3,000
Interpretive Sign Panels	10 Each	\$2,000	\$20,000
Seed and Mulch	2 Acres	\$4,000	\$8,000
Picnic Tables	20 Each	\$600	\$12,000
Grill	4 Each	\$600	\$2,400
Contingency			\$94,000
Engineering, Survey, Permits, Testing			<u>\$83,400</u>
Total:			\$646,000

8 ACTIVE RECREATION AREA			
Basketball Court - 60' x 110'	6,600 SF	\$5	\$33,000
In-Line Hockey Rink - 125' x 250'	31,250 SF	\$7	\$218,750
Skateboard Park - 100' x 200'	20,000 SF	\$10	\$200,000
Double Tennis Court - 100' x 120'	12,000 SF	\$6	\$72,000
Batting Cages	Lump Sum	\$30,000	\$30,000
Putt-Putt Golf Course - 200' x 200'	Lump Sum	\$300,000	\$300,000
Landscape Screening	Lump Sum	\$15,000	\$15,000
Footbridge Across Trout Stream	Lump Sum	\$35,000	\$35,000
Sidewalk 6' Wide	3,000 SF	\$4	\$12,000
Contingency			\$183,000
Engineering, Survey, Permits, Testing			<u>\$164,250</u>
Total:			\$1,233,000
8a Batting Cages	Lump Sum	\$30,000	\$30,000
8b Maintenance Building			
Building - 30' x 80'	2,400 SF	\$175	\$420,000
Sitework	Lump Sum	\$100,000	\$100,000
Bituminous Pavement - 3" Thick	8,500 SF	\$2	\$17,000
Landscape Plantings, Seed and Mulch	Lump Sum	\$30,000	\$30,000
Contingency			\$113,400
Engineering, Survey, Permits, Testing			<u>\$101,600</u>
Total:			\$782,000
Total Active Recreation Area:			\$2,045,000
9 ACTIVE RECREATION AREA - OPEN FIELD			
Reconstruct Ball Field and Backstop	Lump Sum	\$85,000	\$85,000
Parking Lot - 3" Thick Bituminous, 35 Stalls	16,600 SF	\$2	\$33,200
Concrete Wheel Stops	35 Each	\$70	\$2,450
Parking Lot Sitework	Lump Sum	\$20,000	\$20,000
Parking Lot Striping and Signage	Lump Sum	\$500	\$500
Sidewalk - 5' Wide Concrete	1,500 SF	\$4	\$6,000
Picnic Shelter - 30' x 30'	1 Each	\$65,000	\$65,000
Concrete Pavement for Picnic Shelter	1,600 SF	\$4	\$6,400
Concrete Sidewalk - 5' Wide	600 SF	\$4	\$2,400
Picnic Tables	10 Each	\$600	\$6,000
Grills	2 Each	\$600	\$1,200
Landscaping	Lump Sum	\$15,000	\$15,000
Contingency			\$48,630
Engineering, Survey, Permits, Testing			<u>\$43,220</u>
Total:			\$335,000

10 GATEWAY LANDSCAPING**10a Brown Street / Randolph Street Roundabout**

Pavement Removal	8,000 SF	\$1.50	\$12,000
Bituminous Road Pavement - 5" Thick	9,000 SF	\$3	\$27,000
Special Pavement - Crosswalks	1,100 SF	\$15	\$22,500
Special Pavement - Perimeter Walk	2,500 SF	\$15	\$37,500
Curb and Gutter	500 LF	\$20	\$10,000
Road Signage	Lump Sum	\$500	\$500
Special Features/Park Signage	150 LF	\$500	\$75,000
Landscape and Irrigation	Lump Sum	\$20,000	\$20,000
Contingency			\$40,900
Engineering, Survey, Permits, Testing			<u>\$36,600</u>
Total:			\$282,000

10b Randolph Street / High Street Intersection

Special Pavement - Crosswalks	1,400 SF	\$15	\$21,000
Curb and Gutter	300 LF	\$20	\$6,000
Road Signage	Lump Sum	\$500	\$500
Special Features/Park Signage	60 LF	\$500	\$30,000
Landscape	Lump Sum	\$10,000	\$10,000
Contingency			\$13,500
Engineering, Survey, Permits, Testing			<u>\$12,000</u>
Total:			\$93,000

10c Denton Road / Kibby Road Intersection

Special Pavement - Crosswalks	700 SF	\$15	\$10,500
Special Pavement - Sidewalks	2,000 SF	\$15	\$30,000
Road Signage	Lump Sum	\$500	\$500
Special Features/Park Signage	100 LF	\$500	\$50,000
Landscape and Irrigation	Lump Sum	\$20,000	\$20,000
Contingency			\$22,200
Engineering, Survey, Permits, Testing			<u>\$19,800</u>
Total:			\$153,000

10d Brown Street / Denton Road Intersection

Special Pavement - Crosswalks	1,700 SF	\$15	\$25,500
Special Pavement - Sidewalks	3,500 SF	\$15	\$52,500
Curb and Gutter	200 LF	\$20	\$4,000
Fountain in Pond	Lump Sum	\$5,000	\$5,000
Road Signage	Lump Sum	\$500	\$500
Landscape and Irrigation	Lump Sum	\$20,000	\$20,000
Contingency			\$21,500
Engineering, Survey, Permits, Testing			<u>\$19,000</u>
Total:			\$148,000

Total Gateway Landscaping: \$676,000

11 INTERPRETIVE / VISITORS CENTER

Building - Furnishings Not Included	5,000 SF	\$400	\$2,000,000
Site Work	Lump Sum	\$50,000	\$50,000
Site Utilities	Lump Sum	\$20,000	\$20,000
Concrete Sidewalk/Patio 4" Thick	2,500 SF	\$4	\$10,000
Landscape and Irrigation	Lump Sum	\$30,000	\$30,000
Benches	5 Each	\$1,000	\$5,000
Wood Livery Platform - 60' x 40'	2,400 SF	\$50	\$120,000
Wood Warming Hut - 20' x 20'	400 SF	\$75	\$30,000
Bituminous Parking - 80 Angled Stalls Along Randolph	12,800 SF	\$2	\$25,600
Parking Lot Signage and Striping	Lump Sum	\$400	\$400
Contingency			\$458,200
Engineering, Survey, Permits, Testing			<u>\$412,800</u>
Total:			\$3,162,000

12 NATURAL AREA**12a Canal and Pond Dredging (Golf Course is included)** (quotation provided by Jackson County from Ripstra & Scheppelman, Inc.)

Soil Removal and Placement in Open Field Area at the Driving Range (item 4) and in Open Field Area (Item 9)

Open Ditch Excavation	5,300 LF	\$12	\$63,600
Pond Hydraulic Dredging	95,000 CY	\$10	\$950,000
Channel Dredging	25,400 CY	\$12	\$304,800
Dam Replacement (Golf Course)	3 Each	\$25,000	\$75,000
Bridge Replacement (Golf Course)	6 Each	\$50,000	\$300,000
Topsoil, Seed, Fertilize and Mulch	Lump Sum	\$100,000	\$100,000
Erosion Control Measures	Lump Sum	\$10,000	\$10,000
Contingency			\$270,500
Engineering, Survey, Permits			<u>\$26,100</u>
Total:			\$2,100,000

12b Wetland Interpretive Opportunities

Wood Boardwalk - 8' Wide	29,200 SF	\$35	\$1,022,000
Bituminous Path - 8' Wide 3" Thick	1,100 LF	\$15	\$16,500
Wood Fishing/Viewing Platforms - 3 @ 40' x 25'	3,000 SF	\$50	\$150,000
Wood Benches	15 Each	\$400	\$6,000
Raised Foot Bridges Across Canal - 4 @ 8' x 75' long	2,400 SF	\$50	\$120,000
Interpretive Sign Panels	20 Each	\$2,000	\$40,000
Native Meadow Restoration - Grow Zones	5 Acres	\$5,000	\$25,000
Contingency			\$275,900
Engineering, Survey, Permits, Testing			<u>\$248,600</u>
Total:			\$1,904,000

12c Viewing Chamber

Viewing Chamber - 15' x 15' w/Heavy Timber and Concrete Construction with Interpretive Signage	1 Each	\$350,000	\$350,000
Contingency			\$70,000
Engineering, Survey, Permits, Testing			<u>\$63,000</u>
Total:			\$483,000

Total Natural Area: \$4,487,000

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13 OPEN AREAS

Picnic Shelter - 30' x 60'	1 Each	\$80,000	\$80,000
Concrete Pavement for Picnic Shelter - 4" Thick	2800 SF	\$4	\$11,200
Concrete Sidewalk - 5' Wide, 4" Thick	750 SF	\$4	\$3,000
Picnic Tables	20 Each	\$600	\$12,000
Grills	4 Each	\$600	\$2,400
Bituminous Pavement Parking Lot Reconstruction Along Denton Road - 35 Angled Stalls, 3" Thick	15,600 SF	\$2	\$31,200
Site Earthwork for Parking Lot	15600 SF	\$1	\$15,600
Concrete Wheel Stops	35 Each	\$70	\$2,450
Parking Striping and Signage	Lump Sum	\$500	\$500
Bituminous Path Replacement - 10' Wide, 3" Thick	500 LF	\$22	\$11,000
Landscape	Lump Sum	\$10,000	\$10,000
Contingency			\$35,850
Engineering, Survey, Permits, Testing			<u>\$32,800</u>
Total:			\$248,000

14 CASCADES MANOR HOUSE

Gazebo - 40' Diameter	1 Each	\$100,000	\$100,000
Formal Garden - 100' x 200'	Lump Sum	\$100,000	\$100,000
Irrigation	Lump Sum	\$20,000	\$20,000
Manor House Façade Repairs	Lump Sum	\$75,000	\$75,000
Contingency			\$59,000
Engineering, Survey, Permits, Testing			<u>\$53,000</u>
Total:			\$407,000

15 MULTI-USE PATH

West of Brown Street

Bituminous Path - 10' Wide, 3" Thick	6,500 LF	\$22	\$143,000
Earthwork for Path	6,500 LF	\$6	\$39,000
Clearing and Grubbing - 20' Wide	600 LF	\$5	\$3,000
Signage/Striping	Lump Sum	\$5,000	\$5,000
Fitness Trail - 16 Stations	16 Each	\$1,500	\$24,000
Restoration	Lump Sum	\$8,000	\$8,000
Contingency			\$44,400
Engineering, Survey, Permits, Testing			<u>\$39,600</u>
Total:			\$306,000

Along Randolph Street

Bituminous Path - 10' Wide, 3" Thick	800 LF	\$22	\$17,600
Earthwork for Path	800 LF	\$6	\$4,800
Signage/Striping	Lump Sum	\$1,000	\$1,000
Restoration	Lump Sum	\$1,000	\$1,000
Contingency			\$4,880
Engineering, Survey, Permits, Testing			<u>\$4,720</u>
Total:			\$34,000

Total Multi-Use Path: \$340,000

16 BROWN STREET IMPROVEMENTS**16a Road Improvements**

Remove West 2 Lanes	42,000 SF	\$1.50	\$63,000
Earthwork and Topsoil Restoration	800 CY	\$20.00	\$16,000
Resurface East 2 Lanes - 1.5" Lift	42,000 SF	\$1.25	\$52,500
Curb and Gutter	500 LF	\$20	\$10,000
Road Signage	Lump Sum	\$5,000	\$5,000
Drainage	Lump Sum	\$15,000	\$15,000
Contingency			\$32,300
Engineering, Survey, Permits, Testing			<u>\$29,200</u>
Total:			\$223,000

16b R.O.W. Enhancements

Special Pavement in Front of Amphitheater	6,000 SF	\$15	\$90,000
Pedestrian Crosswalks - Special Pavement 10' Wide	1,000 SF	\$15	\$15,000
Concrete Sidewalk - 12' Wide, 6" Thick	4,560 SF	\$8	\$36,480
Ornamental Street Lights - 80' Apart	36 Each	\$8,000	\$288,000
Landscape Plantings and R.O.W. Irrigation	Lump Sum	150,000	\$150,000
Contingency			\$115,900
Engineering, Survey, Permits, Testing			<u>\$103,620</u>
Total:			\$799,000

Total Brown Street Improvements **\$1,022,000**

GRAND TOTAL **\$29,498,000**