

## **APPENDIX A**

### **PARK IMPROVEMENT COST ESTIMATES**

Based upon the evaluation of each park, recommended improvements were established and the estimated costs for the improvements calculated. The following pages document the detailed cost estimates prepared for site improvements for each park site.

The costs estimates are based upon the following information and assumptions:

- Unit cost data represent year 2005 dollars.
- Recommended improvements were categorized by type, such as grading, drainage, playground improvements, ballfield renovation, tennis court renovation, landscape, electrical/lighting, etc. Under each category, the improvement was further broken down into specific construction tasks, such as with paving, the tasks consisted of excavation (cubic yards), paving material

- installation, (square feet), and finish grading and seeding (square yards).
- Based upon sketch plans (prepared from aerial photographs) for each park, quantity take-offs measurements (square feet, cubic yards, linear feet, or number of items) were calculated for each item identified under the specific categories of improvements.
- Construction values were rounded up to the nearest \$100.
- Design, Engineering, Survey and Testing represent the cost for design and engineering fees (12% of construction value) and survey and testing (3% of construction values).

**DOROTHY J. SCHMIDT MEMORIAL PARK**

**I. Park Identification Sign**

Item	Unit	Unit Price	Quantity	Cost
Wood sign and posts	LS	\$2,000	1	\$1,500
Landscape	LS	\$1,500	1	\$1,000
<i>Subtotal</i>				\$2,500
<i>Contingency - 15%</i>				\$400
<i>TOTAL</i>				\$2,900

**2. New Site Furnishings**

Item	Unit	Unit Price	Quantity	Cost
Benches	EA	\$1,000	5	\$5,000
Trash Receptacles	EA	\$800	2	\$1,600
Bike Rack	EA	\$1,000	1	\$1,000
Picnic Tables	EA	\$800	3	\$2,400
<i>Subtotal</i>				\$10,000
<i>Contingency - 15%</i>				\$1,500
<i>TOTAL</i>				\$11,500

**3. Pedestrian Path**

Item	Unit	Unit Price	Quantity	Cost
Excavation	CY	\$25	100	\$2,500
Asphalt Path - 6 feet wide	LF	\$15	550	\$8,300
<i>Subtotal</i>				\$10,500
<i>Contingency - 15%</i>				\$2,000
<i>TOTAL</i>				\$12,500

4. Playground

Item	Unit	Unit Price	Quantity	Cost
Excavation	CY	\$25	330	\$8,300
Concrete edging	LF	\$20	250	\$5,500
Playground equipment and installation	LS	\$65,000	1	\$65,000
Resilient surfacing (including under-drainage)	SF	\$3	6,000	\$18,000
Landscape	LS	\$3,000	1	\$3,000
<i>Subtotal</i>				\$96,800
<i>Contingency - 15%</i>				\$14,600
<b>TOTAL</b>				<b>\$111,400</b>

5. Basketball Court

Item	Unit	Unit Price	Quantity	Cost
Excavation	CY	\$25	120	\$3,000
Asphalt paving and color coating	SF	\$3	4,200	\$12,600
Posts and backboards	EA	\$2,000	2	\$4,000
<i>Subtotal</i>				\$19,600
<i>Contingency - 15%</i>				\$3,000
<b>TOTAL</b>				<b>\$22,600</b>

6. Shelter or Gazebo

Item	Unit	Unit Price	Quantity	Cost
Shelter/Gazebo structure	LS	\$25,000	1	\$25,000
Concrete paving	SF	\$5	300	\$1,500
<i>Subtotal</i>				\$26,500
<i>Contingency - 15%</i>				\$4,000
<b>TOTAL</b>				<b>\$30,500</b>

7. Landscape

Item	Unit	Unit Price	Quantity	Cost
Trees	LS	\$7,000	1	\$7,000
Ornamental trees	LS	\$3,000	1	\$3,000
Evergreens	LS	\$4,000	1	\$4,000
Shrubs	LS	\$4,000	1	\$4,000
<i>Subtotal</i>				\$18,000
<i>Contingency - 15%</i>				\$2,700
<b>TOTAL</b>				<b>\$20,700</b>

8. Other Miscellaneous Improvements

Item	Unit	Unit Price	Quantity	Cost
Finish grading	SF	\$0.50	10,000	\$5,000
Sodding	SY	\$4	500	\$2,000
<i>Subtotal</i>				\$7,000
<i>Contingency - 15%</i>				\$1,100
<b>TOTAL</b>				<b>\$8,100</b>

SUBTOTAL FOR SCHMIDT PARK IMPROVEMENTS	\$220,200
<i>Design and Engineering Fees</i>	\$33,000
TOTAL FOR ALL SCHMIDT IMMPROVEMENTS	\$253,000

**10. Site Master Plan Cost**

In addition to the above improvement costs, it is estimated that the fee for the development of a Site Master Plan will range between \$8,000 and \$12,000. The fee will depend on the scope of services, alternative concepts, and number of meetings required for review and approval.

**BRUCE REAM MEMORIAL PARK**

**1. Park Identification Sign**

Item	Unit	Unit Price	Quantity	Cost
Wood sign and posts	LS	\$2,000	2	\$3,000
Landscape	LS	\$1,500	2	\$2,000
<i>Subtotal</i>				\$5,000
<i>Contingency - 15%</i>				\$800
<b>TOTAL</b>				<b>\$5,800</b>

**2. Pedestrian Paths**

Item	Unit	Unit Price	Quantity	Cost
Excavation	CY	\$25	340	\$8,500
Asphalt Path - 6 feet wide	LF	\$15	2,000	\$30,000
<i>Subtotal</i>				\$38,500
<i>Contingency - 15%</i>				\$5,800
<b>TOTAL</b>				<b>\$43,200</b>

**3. Northeast Parking Lot**

Item	Unit	Unit Price	Quantity	Cost
Excavation and grading	CY	\$25	150	\$3,800
Asphalt paving	SF	\$1.50	27,000	\$40,500
Concrete curbing	LF	\$18	600	\$10,800
Wheel stops	EA	\$100	60	\$6,000
Line stripping	LS	\$1,000	1	\$1,000
Landscape	LS	\$7,500	1	\$5,000
Signage	LS	\$800	1	\$800
<i>Subtotal</i>				\$67,900
<i>Contingency - 15%</i>				\$10,200
<b>TOTAL</b>				<b>\$77,100</b>

4. South Parking Lot

Item	Unit	Unit Price	Quantity	Cost
Excavation and grading	CY	\$25	100	\$2,500
Asphalt paving	SF	\$1.50	17,000	\$25,500
Concrete curbing	LF	\$18	450	\$8,100
Wheel stops	EA	\$100	25	\$2,500
Line stripping	LS	\$600	1	\$600
Landscape	LS	\$3,000	1	\$3,000
Signage	LS	\$800	1	\$800
<i>Subtotal</i>				\$43,000
<i>Contingency - 15%</i>				\$6,500
<b>TOTAL</b>				<b>\$49,500</b>

5. Basketball Court

Item	Unit	Unit Price	Quantity	Cost
Remove existing paving	CY	\$30	120	\$3,600
Excavation for new court and fill existing area	CY	\$20	120	\$2,400
Seed existing area	SY	\$1	500	\$500
Asphalt paving and color coating	SF	\$3	4,200	\$12,600
Vinyl-coated chain link fencing	LF	\$38	200	\$7,600
Posts and backboards	EA	\$2,000	2	\$4,000
<i>Subtotal</i>				\$30,700
<i>Contingency - 15%</i>				\$4,600
<b>TOTAL</b>				<b>\$34,300</b>

6. New Site Furnishings

Item	Unit	Unit Price	Quantity	Cost
Benches	EA	\$1,000	12	\$12,000
Trash Receptacles	EA	\$800	7	\$5,600
Bike Racks	EA	\$1,000	3	\$3,000
Picnic Tables	EA	\$500	12	\$6,000
<i>Subtotal</i>				\$26,600
<i>Contingency - 15%</i>				\$4,000
<b>TOTAL</b>				<b>\$30,600</b>

7. Drinking Fountains

Item	Unit	Unit Price	Quantity	Cost
Remove drinking fountains	EA	\$500	2	\$1,000
Install new drinking fountains	EA	\$3,500	2	\$7,000
New valves/plumbing	LS	\$600	2	\$1,200
<i>Subtotal</i>				\$9,200
<i>Contingency - 15%</i>				\$1,400
<b>TOTAL</b>				<b>\$10,200</b>

8. Playground

Item	Unit	Unit Price	Quantity	Cost
Excavation	CY	\$25	420	\$8,300
Concrete edging	LF	\$20	350	\$7,000
Playground equipment and installation	LS	\$77,000	1	\$77,000
Resilient surfacing (including under-drainage)	SF	\$3	7,500	\$22,500
Landscape	LS	\$3,500	1	\$3,500
<i>Subtotal</i>				\$118,300
<i>Contingency - 15%</i>				\$17,800
<b>TOTAL</b>				<b>\$141,900</b>

9. Baseball Fields Renovation

Item	Unit	Unit Price	Quantity	Cost
Remove existing backstops and fencing	LF	\$5	360	\$1,800
New backstops	EA	\$6,500	2	\$13,000
New player benches	EA	\$800	4	\$3,200
New bleacher pads/asphalt paving	SF	\$2.50	1,000	\$2,500
Excavation and grading	CY	\$30	120	\$3,600
Sodding of infield areas	SY	\$4	200	\$800
Infield clay mix	CY	20	80	\$1,600
Subsurface drainage of infields	LF	\$12	500	\$6,000
Drainage structures and pipe	LS	\$10,000	1	\$10,000
New baseline fencing with padding	LF	\$35	400	\$14,000
Foul-line extension poles	EA	\$1,500	4	\$6,000
New equipment storage boxes	EA	\$1,000	2	\$2,000
<i>Subtotal</i>				\$64,500
<i>Contingency - 15%</i>				\$9,700
<b>TOTAL</b>				<b>\$73,200</b>

10. Softball Field Renovation

Item	Unit	Unit Price	Quantity	Cost
Remove existing backstops and fencing	LF	\$5	600	\$3,000
New backstops	EA	\$8,000	1	\$8,000
New player benches	EA	\$800	2	\$1,600
New bleacher pads/asphalt paving	SF	\$2.50	600	\$1,500
Infield clay mix	CY	\$20	115	\$2,300
Subsurface drainage of infield	LF	\$12	300	\$3,600
Drainage structures and pipe	LS	\$10,000	1	\$10,000
New baseline fencing with padding	LF	\$35	400	\$14,000
Foul-line extension poles	EA	\$1,500	2	\$3,000
New equipment storage boxes	EA	\$1,000	1	\$1,000
<i>Subtotal</i>				\$48,000
<i>Contingency - 15%</i>				\$7,200
<b>TOTAL</b>				<b>\$55,200</b>

11. Soccer Field Renovation

Item	Unit	Unit Price	Quantity	Cost
Subsurface drainage of infield	LF	\$12	3,500	\$42,000
Drainage structures and pipe	LS	\$15,000	1	\$15,000
Grading and seeding	CY	\$30	3,500	\$105,000
<i>Subtotal</i>				\$162,000
<i>Contingency - 15%</i>				\$24,300
<b>TOTAL</b>				<b>\$186,300</b>

12. Picnic Shelter Renovation

Item	Unit	Unit Price	Quantity	Cost
New roof	LS	\$1,500	1	\$1,500
Painting	LS	\$2,000	1	\$2,000
Screening of vending machines	LS	\$1,200	1	\$1,200
<i>Subtotal</i>				\$4,700
<i>Contingency - 15%</i>				\$700
<b>TOTAL</b>				<b>\$5,400</b>

13. Restroom Building Renovation

Item	Unit	Unit Price	Quantity	Cost
New roof	LS	\$800	1	\$800
Painting	LS	\$1,500	1	\$1,500
Replace interior restroom fixtures	LS	\$20,000	1	\$20,000
<i>Subtotal</i>				\$22,300
<i>Contingency - 15%</i>				\$3,400
<b>TOTAL</b>				<b>\$25,700</b>

14. Electrical/Lighting

Item	Unit	Unit Price	Quantity	Cost
Replace light fixtures for softball field lights	LS	\$7,000	1	\$7,000
New electrical panels and control boxes	LS	\$10,000	1	\$10,000
Screening of electrical utility area	LS	\$45	70	\$3,200
<i>Subtotal</i>				\$20,200
<i>Contingency - 15%</i>				\$3,000
<b>TOTAL</b>				<b>\$23,200</b>

15. Landscape

Item	Unit	Unit Price	Quantity	Cost
Trees	LS	\$30,000	1	\$30,000
Ornamental trees	LS	\$5,000	1	\$5,000
Evergreens	LS	\$8,000	1	\$8,000
Shrubs	LS	\$7,000	1	\$7,000
<i>Subtotal</i>				\$50,000
<i>Contingency - 15%</i>				\$7,500
<b>TOTAL</b>				<b>\$57,500</b>

SUBTOTAL FOR ALL REAM PARK IMPROVEMENTS	\$819,100
<i>Design and Engineering Fees</i>	\$122,800
TOTAL FOR ALL REAM PARK IMPROVEMENTS	\$941,900

**16. Site Master Plan Cost**

In addition to the above improvement costs, it is estimated that the fee for the development of a Site Master Plan will range between \$12,000 and \$18,000. The fee will depend on the scope of services, alternative concepts, and number of meetings required for review and approval.

**SEYLLER PARK**

**1. Park Identification Sign**

Item	Unit	Unit Price	Quantity	Cost
Wood sign and posts	LS	\$2,000	2	\$3,000
Landscape	LS	\$1,500	2	\$2,000
<i>Subtotal</i>				\$5,000
<i>Contingency - 15%</i>				\$800
<b>TOTAL</b>				<b>\$5,800</b>

**2. Pedestrian Path**

Item	Unit	Unit Price	Quantity	Cost
Excavation	CY	\$25	340	\$8,500
Asphalt Path - 6 feet wide	LF	\$15	2,000	\$30,000
<i>Subtotal</i>				\$38,500
<i>Contingency - 15%</i>				\$5,800
<b>TOTAL</b>				<b>\$43,200</b>

**3. Northwest Parking Lot**

Item	Unit	Unit Price	Quantity	Cost
Excavation and grading	CY	\$25	100	\$2,500
Asphalt paving	SF	\$1.50	15,000	\$22,500
Concrete curbing	LF	\$18	250	\$4,500
Wheel stops	EA	\$100	12	\$1,200
Line stripping	LS	\$1,000	1	\$700
Landscape	LS	\$3,000	1	\$3,000
Signage	LS	\$500	1	\$500
<i>Subtotal</i>				\$34,900
<i>Contingency - 15%</i>				\$5,300
<b>TOTAL</b>				<b>\$40,100</b>

4. Recreation Building Parking Lot (assume that new parking lot replaces tennis/basketball courts)

Item	Unit	Unit Price	Quantity	Cost
Removal of court paving	SF	\$1	20,300	\$20,300
Remove fencing, posts and light	LS	\$8,000	1	\$8,000
Asphalt paving	SF	\$1.50	20,300	\$30,400
Concrete curbing	LF	\$18	300	\$5,400
Drainage structures	LS	\$7,500	1	\$7,500
Wheel stops	EA	\$100	50	\$5,000
Line stripping	LS	\$1,000	1	\$1,000
Landscape	LS	\$5,000	1	\$5,000
Signage	LS	\$800	1	\$800
<i>Subtotal</i>				\$83,400
<i>Contingency - 15%</i>				\$12,500
<b>TOTAL</b>				<b>\$95,900</b>

5. Basketball/Tennis Courts (assume that tennis/basketball courts relocated in park)

Item	Unit	Unit Price	Quantity	Cost
Excavation for new courts	CY	\$25	530	\$13,250
Asphalt paving and color coating	SF	\$3	19,800	\$59,400
Vinyl-coated chain link fencing	LF	\$35	570	\$19,950
Tennis court posts and nets	EA	\$2,000	2	\$4,000
Basketball ball poles and backboards	EA	\$2,000	2	\$4,000
<i>Subtotal</i>				\$100,600
<i>Contingency - 15%</i>				\$15,100
<b>TOTAL</b>				<b>\$115,100</b>

6. New Site Furnishings

Item	Unit	Unit Price	Quantity	Cost
Benches	EA	\$1,000	12	\$12,000
Trash Receptacles	EA	\$800	7	\$5,600
Bike Racks	EA	\$1,000	2	\$2,000
Picnic Tables	EA	\$800	12	\$9,600
<i>Subtotal</i>				\$29,200
<i>Contingency - 15%</i>				\$4,400
<b>TOTAL</b>				<b>\$33,600</b>

7. Playground

Item	Unit	Unit Price	Quantity	Cost
Benches	EA	\$1,000	3	\$3,000
Tables	EA	\$1,200	2	\$2,400
Subsurface drainage system	LF	\$12	400	\$4,800
Drainage structures and pipe	SF	\$5,000	1	\$5,000
Landscape	LS	\$3,500		\$15
<i>Subtotal</i>				\$15,200
<i>Contingency - 15%</i>				\$2,300
<b>TOTAL</b>				<b>\$17,500</b>

**8. Baseball Field Renovation**

Item	Unit	Unit Price	Quantity	Cost
Remove existing backstops and fencing	LF	\$5	300	\$1,500
New backstop	EA	\$6,000	1	\$6,000
New player benches	EA	\$800	2	\$1,500
New bleacher pads/asphalt paving	SF	\$2.50	1,000	\$2,500
Excavation and grading	CY	\$30	60	\$1,800
Sodding of infield areas	SY	\$4	100	\$400
Infield clay mix	CY	20	40	\$800
Subsurface drainage of infields	LF	\$12	300	\$3,600
Drainage structures and pipe	LS	\$5,000	1	\$5,000
New baseline fencing	LF	\$30	400	\$12,000
Foul-line extension poles	EA	\$1,500	2	\$3,000
New equipment storage boxes	EA	\$1,000	1	\$1,000
<i>Subtotal</i>				\$39,100
<i>Contingency - 15%</i>				\$5,900
<b>TOTAL</b>				<b>\$45,000</b>

**9. Picnic Shelter Renovation**

Item	Unit	Unit Price	Quantity	Cost
New roof	LS	\$1,500	1	\$1,500
Painting	LS	\$2,000	1	\$2,000
<i>Subtotal</i>				\$3,500
<i>Contingency - 15%</i>				\$500
<b>TOTAL</b>				<b>\$4,000</b>

**10. Electrical/Lighting**

Item	Unit	Unit Price	Quantity	Cost
Replace light fixtures court lights	LS	\$6,000	1	\$6,000
New electrical panels and control boxes	LS	\$5,000	1	\$5,000
Screening of electrical utility area	LS	\$2,500	1	\$2,500
<i>Subtotal</i>				\$13,500
<i>Contingency - 15%</i>				\$2,000
<b>TOTAL</b>				<b>\$15,500</b>

**11. Landscape**

Item	Unit	Unit Price	Quantity	Cost
Trees	LS	\$30,000	1	\$30,000
Ornamental trees	LS	\$8,000	1	\$8,000
Evergreens	LS	\$8,000	1	\$8,000
Shrubs	LS	\$8,000	1	\$8,000
<i>Subtotal</i>				\$54,000
<i>Contingency - 15%</i>				\$8,100
<b>TOTAL</b>				<b>\$62,100</b>

SUBTOTAL FOR ALL SEYLLER PARK IMPROVEMENTS	\$477,800
<i>Design and Engineering Fees</i>	\$71,700
TOTAL FOR ALL SEYLLER PARK IMPROVEMENTS	\$549,500

**16. Site Master Plan Cost**

In addition to the above improvement costs, it is estimated that the fee for the development of a Site Master Plan will range between \$15,000 and \$20,000. The fee will depend on the scope of services, alternative concepts, and number of meetings required for review and approval.

