



Date March 9, 2026

PUBLIC HEARING, APPROVING PLANS, SPECIFICATIONS, FORM OF CONTRACT DOCUMENTS, AND ENGINEER'S ESTIMATE ON BIRDLAND PARK PHASE 1A IMPROVEMENTS; RECEIVE AND FILE BIDS; AND DESIGNATION OF LOWEST RESPONSIVE, RESPONSIBLE BIDDER AS IOWA EARTH WORKS, LLC, JOSEPH JENSEN, OWNER, \$3,656,716.25

WHEREAS, on January 26, 2026, under Roll Call No. 26-0096, plans, specifications, form of contract documents, and Engineer's estimate of construction cost were filed with the City Clerk, for the construction of the following public improvement:

Birdland Park Phase 1A Improvements, Activity ID 112023003

- IDNR Project No. 19-01387
- IDOT Project No. RT-1945(885)--9H-77
- IDALS Project No. URBAN25WQUI-007
- REAP Project No. 26-R4-NR
- IEDA Project No. 26-CAT-001

The improvements include the construction of a Portland Cement Concrete (PCC) parking lot, boat ramp and dock, fishing piers, two (2) open-air shelters, storm sewer pipe, storm sewer manholes, storm sewer intakes, bioretention cells, PCC sidewalks and trail, PCC driveways, grading, cast-in-place concrete walls, electrical work, erosion control, surface restoration and other incidental items, all in accordance with the contract documents including Plan File No. 674-278/359, located at Birdland Park between 6th Avenue and 2nd Avenue, south of Birdland Drive, Des Moines, Iowa; and

WHEREAS, notice of the hearing on the plans, specifications, form of contract documents, and Engineer's estimate of construction cost was published as required by law; and

WHEREAS, in accordance with said notice, those interested in said proposed plans, specifications, form of contract documents, and Engineer's estimate of construction cost both for and against, have been given opportunity to be heard with respect thereto and have presented their views to the City Council.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF DES MOINES, IOWA: That upon due consideration of the facts, and any and all statements of interested persons, any objections to the plans, specifications, form of contract documents, and Engineer's estimate of construction cost for said public improvement are overruled and the hearing is closed, and that said plans, specifications, form of contract documents, and Engineer's estimate of construction cost are hereby approved.

BE IT FURTHER RESOLVED: That sealed bids for said public improvement were submitted by the following bidders:

- Iowa Earth Works, LLC, Huxley, IA - Low Bid
- Cushman Excavation, LLC, Knoxville, IA
- Reilly Construction Co., Inc., Ossian, IA

which were received and opened at a public meeting presided over by the Engineer in the City Council Chambers, 1st Floor, T.M. Franklin Cownie City Administration Building, 1200 Locust Street, Des Moines, Iowa at 11:00 a.m. on February 10, 2026. Said bids and the attached tabulation of bids for said public improvement be and are hereby received and filed.



Roll Call Number

Agenda Item Number

42

Date March 9, 2026

BE IT FURTHER RESOLVED: That the Des Moines City Engineer, as the Engineer, has determined that the lowest responsive, responsible bid for the construction of said public improvement was submitted by Iowa Earth Works, LLC, Joseph Jensen, Owner, 626 N Hwy 69 , PO Box 112, Huxley, IA, 50124 in the amount of \$3,656,716.25, and said bid be and the same is hereby accepted.

BE IT FURTHER RESOLVED: That the bid security of the unsuccessful bidders be and is hereby authorized and directed to be returned in accordance with the Instructions to Bidders.

BE IT FURTHER RESOLVED: That the Engineer is hereby directed to secure execution by the lowest responsive, responsive Bidder and its surety of the contract documents in the form heretofore approved by this Council; that the Engineer is directed to thereafter present said contract documents to this Council for approval and authorization to the Mayor to sign; and that no contract shall be deemed to exist between the City of Des Moines and said Bidder until said contract has been executed by the Bidder, and shall have been approved by this Council and executed by the Mayor and attested to by the City Clerk.

BE IT FURTHER RESOLVED: That the City Council hereby authorizes the necessary closure of all public grounds, streets, sidewalks, alleys, bridges, culverts, overpasses, underpasses, grade crossing separations and approaches, public ways, squares, and commons for the Project.

(Council Communication No. 26-077)

Moved by _____ to adopt. Second by _____

FORM APPROVED:

FUNDS AVAILABLE:

/s/ Glenna K. Frank

s/Nickolas J. Schaul

Glenna K. Frank
Deputy City Attorney

Nickolas J. Schaul
Director of Finance

Funding Source: 2025-26 CIP, Page 90, Birdland Park and Marina, PK189 , Being: \$200,000 State Recreational Trail (SRT) Grant, \$108,000 Iowa Department of Agriculture and Land Stewardship (IDALS) Water Quality Initiative (WQI) Cost-Share Grant, \$1,000,000 Land Water Conservation Funding (LWCF) Outdoor Recreation Legacy Partnership (ORLP) Grant, \$150,000 Community Attraction and Tourism (CAT) Grant, \$300,000 Resource Enhancement and Protection (REAP) Grant, with the remainder being funded with LOSST Monies, and G.O. Bonds

SLN
pw

COUNCIL ACTION	YEAS	NAYS	PASS	ABSENT
BOESEN				
SIMONSON				
VOSS				
BARRON				
WESTERGAARD				
MANDELBAUM				
GATTO				
TOTAL				
MOTION CARRIED			APPROVED	
_____ Mayor				

CERTIFICATE

I, Laura Baumgartner, City Clerk of said City hereby certify that at a meeting of the City Council of said City of Des Moines, held on the above date, among other proceedings the above was adopted.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal the day and year first above written.

City Clerk

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TABULATED BY: N. Smith APPROVED BY: Phillip J. Wagon
Checked by: Rod Gaudin
CONTRACTOR'S BID TABULATION

Iowa Earth Works, LLC Cushman Excavation, LLC Reilly Construction Co., Inc.
Huxley, IA Knoxville, IA Ossian, IA

BID SECURITY BID SECURITY BID SECURITY
10% Bid Bond 10% Bid Bond 10% Bid Bond

PROJECT: BIRDLAND PARK PHASE 1A IMPROVEMENTS

-----ESTIMATE-----

ITEM	DESCRIPTION	QUANTITY	PRICE	AMOUNT	BID PRICE		BID PRICE		BID PRICE	
					PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
1	CLEARING AND GRUBBING	12.70 AC	\$10,000.00	\$127,000.00	\$6,300.00	\$80,010.00	\$7,000.00	\$88,900.00	\$5,500.00	\$69,850.00
2	TOPSOIL, ON-SITE	2,237.00 CY	\$15.00	\$33,555.00	\$6.00	\$13,422.00	\$7.00	\$15,659.00	\$25.00	\$55,925.00
3	TOPSOIL, OFF-SITE	2,938.00 CY	\$42.00	\$123,396.00	\$20.00	\$58,760.00	\$23.00	\$67,574.00	\$35.00	\$102,830.00
4	EXCAVATION, CLASS 10	12,300.00 CY	\$30.00	\$369,000.00	\$10.00	\$123,000.00	\$11.50	\$141,450.00	\$20.00	\$246,000.00
5	SUBGRADE PREPARATION	32,150.00 SY	\$5.00	\$160,750.00	\$3.00	\$96,450.00	\$3.60	\$115,740.00	\$1.00	\$32,150.00
6	GRANULAR STABILIZATION	1,010.00 TON	\$62.00	\$62,620.00	\$48.00	\$48,480.00	\$55.00	\$55,550.00	\$60.00	\$60,600.00
7	SUBGRADE TREATMENT, GEOTEXTILE	450.00 SY	\$5.00	\$2,250.00	\$6.00	\$2,700.00	\$8.00	\$3,600.00	\$10.00	\$4,500.00
8	SUBBASE, CRUSHED ROCK BASE, 6" OR MODIFIED BACKFILL	9,400.00 SY	\$14.00	\$131,600.00	\$10.75	\$101,050.00	\$12.50	\$117,500.00	\$15.50	\$145,700.00
9	4" CLAY LINER	295.00 CY	\$30.00	\$8,850.00	\$15.00	\$4,425.00	\$18.00	\$5,310.00	\$50.00	\$14,750.00
10	STORM SEWER TRENCHED, 12 IN.	78.00 LF	\$110.00	\$8,580.00	\$100.00	\$7,800.00	\$150.00	\$11,700.00	\$90.00	\$7,020.00
11	STORM SEWER TRENCHED, 15 IN.	535.00 LF	\$120.00	\$64,200.00	\$75.00	\$40,125.00	\$80.00	\$42,800.00	\$95.00	\$50,825.00
12	STORM SEWER TRENCHED, 18 IN.	68.00 LF	\$125.00	\$8,500.00	\$80.00	\$5,440.00	\$135.00	\$9,180.00	\$110.00	\$7,480.00
13	PIPE APRON AND GUARD, 12 IN. WITH SHEET PILE	4.00 EACH	\$6,500.00	\$26,000.00	\$3,750.00	\$15,000.00	\$9,000.00	\$36,000.00	\$4,000.00	\$16,000.00
14	PIPE APRON AND GUARD, 18 IN. WITH SHEET PILE	2.00 EACH	\$7,000.00	\$14,000.00	\$3,850.00	\$7,700.00	\$5,100.00	\$10,200.00	\$4,300.00	\$8,600.00
15	PIPE APRON AND GUARD, 12 IN.	1.00 EACH	\$750.00	\$750.00	\$3,850.00	\$3,850.00	\$4,850.00	\$4,850.00	\$2,300.00	\$2,300.00
16	SUBDRAIN, 4 IN. HDPE	454.00 LF	\$50.00	\$22,700.00	\$21.00	\$9,534.00	\$18.00	\$8,172.00	\$22.00	\$9,988.00
17	SUBDRAIN, 4 IN. CLEANOUT	1.00 EACH	\$750.00	\$750.00	\$350.00	\$350.00	\$1,840.00	\$1,840.00	\$1,300.00	\$1,300.00
18	SUBDRAIN, OUTLET, CONNECTION TO INTAKE OR PIPE	7.00 EACH	\$250.00	\$1,750.00	\$500.00	\$3,500.00	\$570.00	\$3,990.00	\$250.00	\$1,750.00
19	SW-512 STORM SEWER INTAKE 24"	6.00 EACH	\$6,000.00	\$36,000.00	\$5,100.00	\$30,600.00	\$5,200.00	\$31,200.00	\$2,100.00	\$12,600.00
20	SW-512 STORM SEWER INTAKE, MODIFIED, 18"	4.00 EACH	\$4,000.00	\$16,000.00	\$3,800.00	\$15,200.00	\$5,200.00	\$20,800.00	\$3,400.00	\$13,600.00
21	SW-512 STORM SEWER INTAKE MODIFIED, 24"	1.00 EACH	\$5,000.00	\$5,000.00	\$3,500.00	\$3,500.00	\$5,500.00	\$5,500.00	\$3,800.00	\$3,800.00
22	SW-401 STORM SEWER MANHOLE, 48"	5.00 EACH	\$8,000.00	\$40,000.00	\$3,500.00	\$17,500.00	\$6,600.00	\$33,000.00	\$5,500.00	\$27,500.00
23	PAVEMENT, PCC TYPE 3, CLASS C, DUR., 7 IN.	5,200.00 SY	\$70.00	\$364,000.00	\$58.25	\$302,900.00	\$65.00	\$338,000.00	\$61.25	\$318,500.00
24	PAVEMENT, PCC TYPE 4, CLASS C, DUR., 8 IN.	254.00 SY	\$198.00	\$50,292.00	\$151.25	\$38,417.50	\$225.00	\$57,150.00	\$159.00	\$40,386.00
25	CURB & GUTTER, PCC, DRIVEWAY EOP, MATCH EXISTING	210.00 LF	\$50.00	\$10,500.00	\$48.25	\$10,132.50	\$46.00	\$9,660.00	\$50.75	\$10,657.50
26	BEAM CURB	60.00 LF	\$50.00	\$3,000.00	\$45.25	\$2,715.00	\$52.00	\$3,120.00	\$47.50	\$2,850.00
27	PAVEMENT, HMA, FULL DEPTH REPAIR, MATCH EXISTING	25.00 SY	\$115.00	\$2,875.00	\$120.00	\$3,000.00	\$140.00	\$3,500.00	\$200.00	\$5,000.00
28	REMOVAL OF SHARED USE PATH	2,400.00 SY	\$15.00	\$36,000.00	\$15.00	\$36,000.00	\$18.00	\$43,200.00	\$10.00	\$24,000.00
29	REMOVAL OF DRIVEWAY	105.00 SY	\$15.00	\$1,575.00	\$15.00	\$1,575.00	\$18.00	\$1,890.00	\$30.00	\$3,150.00
30	REMOVAL OF CURB	95.00 LF	\$17.00	\$1,615.00	\$15.00	\$1,425.00	\$20.00	\$1,900.00	\$30.00	\$2,850.00
31	SHARED USE PATH, PCC TYPE 1, 6 IN.	2,625.00 SY	\$65.00	\$170,625.00	\$49.00	\$128,625.00	\$63.00	\$165,375.00	\$51.50	\$135,187.50
32	SHARED USE PATH, PCC TYPE 1, 6 IN., REINFORCED	185.00 SY	\$90.00	\$16,650.00	\$84.75	\$15,678.75	\$95.00	\$17,575.00	\$89.00	\$16,465.00
33	SIDEWALK, PCC TYPE 2, 5 IN.	995.00 SY	\$65.00	\$64,675.00	\$53.70	\$53,431.50	\$53.00	\$52,735.00	\$56.50	\$56,217.50
34	DETECTABLE WARNING, CAST IRON NATURAL FINISH	200.00 SF	\$70.00	\$14,000.00	\$55.00	\$11,000.00	\$38.00	\$7,600.00	\$58.00	\$11,600.00
35	DRIVEWAY, PAVED, TYPE A, PCC, 7 IN.	165.00 SY	\$80.00	\$13,200.00	\$97.00	\$16,005.00	\$80.00	\$13,200.00	\$102.00	\$16,830.00
36	PAINTED PAVEMENT MARKINGS, DURABLE, 4 IN. WIDTH	16.00 STA	\$200.00	\$3,200.00	\$550.00	\$8,800.00	\$800.00	\$12,800.00	\$735.00	\$11,760.00
37	PAINTED PAVEMENT MARKINGS, DURABLE, 6 IN. WIDTH	2.70 STA	\$225.00	\$607.50	\$550.00	\$1,485.00	\$1,100.00	\$2,970.00	\$950.00	\$2,565.00
38	PAINTED SYMBOLS AND LEGENDS, DURABLE HANDICAP AND DIRECTIO	5.00 EACH	\$500.00	\$2,500.00	\$400.00	\$2,000.00	\$350.00	\$1,750.00	\$265.00	\$1,325.00
39	TEMPORARY TRAFFIC CONTROL	1.00 LS	\$15,000.00	\$15,000.00	\$11,500.00	\$11,500.00	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00
40	SIGN ASSEMBLY, FURNISH AND INSTALL	13.00 EACH	\$275.00	\$3,575.00	\$200.00	\$2,600.00	\$400.00	\$5,200.00	\$315.00	\$4,095.00
41	PERFORATED SQUARE STEEL TUBE POSTS	144.00 LF	\$25.00	\$3,600.00	\$25.00	\$3,600.00	\$35.00	\$5,040.00	\$32.00	\$4,608.00
42	HYDRAULIC SEEDING, FERTILIZING, AND MULCHING, TYPE 1 (PERM. LAV	1.50 AC	\$3,000.00	\$4,500.00	\$5,500.00	\$8,250.00	\$6,350.00	\$9,525.00	\$4,725.00	\$7,087.50
43	HYDRAULIC SEEDING AND MULCHING, TYPE 4 (TEMPORARY)	1.50 AC	\$1,000.00	\$1,500.00	\$1,600.00	\$2,400.00	\$4,200.00	\$6,300.00	\$2,365.00	\$3,547.50
44	CONVENTIONAL SEEDING AND MULCHING, RIVER EDGE MIX, NO TILLED	2.50 AC	\$6,200.00	\$15,500.00	\$5,500.00	\$13,750.00	\$3,600.00	\$9,000.00	\$2,520.00	\$6,300.00
45	CONVENTIONAL SEEDING AND MULCHING, SAVANNA MIX, NO TILLED DC	1.00 AC	\$6,200.00	\$6,200.00	\$8,500.00	\$8,500.00	\$7,000.00	\$7,000.00	\$5,620.00	\$5,620.00
46	CONVENTIONAL SEEDING AND MULCHING, LEVEE SEED MIX, NO TILLED	0.50 AC	\$6,200.00	\$3,100.00	\$5,500.00	\$2,750.00	\$4,000.00	\$2,000.00	\$2,520.00	\$1,260.00
47	HERBICIDING	5.40 AC	\$750.00	\$4,050.00	\$200.00	\$1,080.00	\$300.00	\$1,620.00	\$315.00	\$1,701.00

ITEM	DESCRIPTION	QUANTITY	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
48	SWPPP PREPARATION AND MANAGEMENT	1.00 LS	\$20,000.00	\$20,000.00	\$5,000.00	\$5,000.00	\$9,100.00	\$9,100.00	\$7,500.00	\$7,500.00
49	FILTER SOCK, 12 IN.	1,700.00 LF	\$3.00	\$5,100.00	\$2.40	\$4,080.00	\$3.00	\$5,100.00	\$2.50	\$4,250.00
50	FILTER SOCK, REMOVAL	1,700.00 LF	\$0.50	\$850.00	\$0.10	\$170.00	\$1.25	\$2,125.00	\$0.30	\$510.00
51	RIP RAP, CLASS C REVETMENT	3,200.00 TON	\$90.00	\$288,000.00	\$75.00	\$240,000.00	\$83.00	\$265,600.00	\$90.00	\$288,000.00
52	RIP RAP, CLASS C REVETMENT FOR TOP DRESSING	750.00 TON	\$125.00	\$93,750.00	\$75.00	\$56,250.00	\$83.00	\$62,250.00	\$95.00	\$71,250.00
53	RIP RAP, CLASS E REVETMENT	1,210.00 TON	\$80.00	\$96,800.00	\$75.00	\$90,750.00	\$83.00	\$100,430.00	\$90.00	\$108,900.00
54	RIP RAP, EROSION STONE	9.00 TON	\$80.00	\$720.00	\$100.00	\$900.00	\$120.00	\$1,080.00	\$150.00	\$1,350.00
55	TEMPORARY RECP, TYPE 2D	3,400.00 SY	\$7.50	\$25,500.00	\$1.50	\$5,100.00	\$2.20	\$7,480.00	\$1.10	\$3,740.00
56	SILT FENCE, INSTALLATION	2,550.00 LF	\$4.00	\$10,200.00	\$1.70	\$4,335.00	\$2.20	\$5,610.00	\$2.00	\$5,100.00
57	SILT FENCE, REMOVAL OF DEVICE	2,550.00 LF	\$1.00	\$2,550.00	\$0.10	\$255.00	\$0.50	\$1,275.00	\$0.01	\$25.50
58	STABILIZED CONSTRUCTION ENTRANCE	280.00 SY	\$25.00	\$7,000.00	\$18.00	\$5,040.00	\$20.00	\$5,600.00	\$25.00	\$7,000.00
59	INLET PROTECTION DEVICE, DROP-IN TYPE	3.00 EACH	\$250.00	\$750.00	\$100.00	\$300.00	\$250.00	\$750.00	\$185.00	\$555.00
60	INLET PROTECTION DEVICE, MAINTENANCE	50.00 EACH	\$50.00	\$2,500.00	\$50.00	\$2,500.00	\$40.00	\$2,000.00	\$1.00	\$50.00
61	TURF REINFORCEMENT MAT, TYPE 3	160.00 SY	\$20.00	\$3,200.00	\$7.00	\$1,120.00	\$10.00	\$1,600.00	\$13.25	\$2,120.00
62	CHAIN LINK FENCE, COMMERCIAL, MATCH EXISTING	60.00 LF	\$100.00	\$6,000.00	\$100.00	\$6,000.00	\$55.00	\$3,300.00	\$50.00	\$3,000.00
63	REMOVAL OF FENCE	75.00 LF	\$20.00	\$1,500.00	\$10.00	\$750.00	\$12.00	\$900.00	\$10.00	\$750.00
64	CONSTRUCTION SURVEY	1.00 LS	\$20,000.00	\$20,000.00	\$18,000.00	\$18,000.00	\$20,000.00	\$20,000.00	\$20,000.00	\$20,000.00
65	MOBILIZATION	1.00 LS	\$152,166.50	\$152,166.50	\$350,000.00	\$350,000.00	\$610,950.00	\$610,950.00	\$365,000.00	\$365,000.00
66	CONCRETE WASHOUT	1.00 LS	\$3,000.00	\$3,000.00	\$2,500.00	\$2,500.00	\$8,000.00	\$8,000.00	\$5,000.00	\$5,000.00
67	CAST-IN-PLACE CONCRETE - BOAT LAUNCH ABUTMENT	1.00 LS	\$15,000.00	\$15,000.00	\$50,000.00	\$50,000.00	\$7,000.00	\$7,000.00	\$25,000.00	\$25,000.00
68	CAST-IN-PLACE CONCRETE - CHEEK WALLS	120.00 LF	\$205.00	\$24,600.00	\$430.00	\$51,600.00	\$250.00	\$30,000.00	\$340.00	\$40,800.00
69	CAST-IN-PLACE CONCRETE - CONCRETE RIBBON	410.00 LF	\$100.00	\$41,000.00	\$128.50	\$52,685.00	\$115.00	\$47,150.00	\$190.00	\$77,900.00
70	CAST-IN-PLACE CONCRETE - BIORETENTION CELL	280.00 LF	\$75.00	\$21,000.00	\$265.00	\$74,200.00	\$215.00	\$60,200.00	\$310.00	\$86,800.00
71	BOAT DOCK	1.00 LS	\$29,750.00	\$29,750.00	\$120,000.00	\$120,000.00	\$72,000.00	\$72,000.00	\$95,000.00	\$95,000.00
72	COURTESY DOCK	1.00 LS	\$19,125.00	\$19,125.00	\$80,000.00	\$80,000.00	\$48,000.00	\$48,000.00	\$65,000.00	\$65,000.00
73	STEEL PIPE PILE - 20"	260.00 LF	\$200.00	\$52,000.00	\$700.00	\$182,000.00	\$308.00	\$80,080.00	\$425.00	\$110,500.00
74	STEEL PIPE PILE - 12"	260.00 LF	\$175.00	\$45,500.00	\$600.00	\$156,000.00	\$212.00	\$55,120.00	\$290.00	\$75,400.00
75	FLOATING SILT CURTAIN	720.00 LF	\$40.00	\$28,800.00	\$30.00	\$21,600.00	\$35.00	\$25,200.00	\$30.00	\$21,600.00
76	TEMPORARY COFFERDAM	1.00 LS	\$100,000.00	\$100,000.00	\$75,000.00	\$75,000.00	\$265,000.00	\$265,000.00	\$290,000.00	\$290,000.00
77	BENCH	3.00 EACH	\$5,076.00	\$15,228.00	\$4,500.00	\$13,500.00	\$3,800.00	\$11,400.00	\$5,000.00	\$15,000.00
78	PICNIC TABLE	4.00 EACH	\$8,430.00	\$33,720.00	\$9,000.00	\$36,000.00	\$5,800.00	\$23,200.00	\$10,000.00	\$40,000.00
79	BIKE RACK	8.00 EACH	\$500.00	\$4,000.00	\$500.00	\$4,000.00	\$300.00	\$2,400.00	\$1,000.00	\$8,000.00
80	GRILL	2.00 EACH	\$1,000.00	\$2,000.00	\$1,000.00	\$2,000.00	\$1,000.00	\$2,000.00	\$1,300.00	\$2,600.00
81	PAVILION	2.00 EACH	\$20,000.00	\$40,000.00	\$35,000.00	\$70,000.00	\$44,000.00	\$88,000.00	\$43,500.00	\$87,000.00
82	BIORETENTION CELL	4,950.00 SF	\$10.00	\$49,500.00	\$14.00	\$69,300.00	\$14.00	\$69,300.00	\$18.00	\$89,100.00
83	RELOCATED GATE	1.00 LS	\$2,000.00	\$2,000.00	\$2,500.00	\$2,500.00	\$7,000.00	\$7,000.00	\$5,400.00	\$5,400.00
84	TREE PROTECTION FENCE, 48 IN. HEIGHT	600.00 LF	\$12.00	\$7,200.00	\$4.00	\$2,400.00	\$10.00	\$6,000.00	\$3.50	\$2,100.00
85	TREE TRUNK PROTECTION	23.00 EACH	\$300.00	\$6,900.00	\$240.00	\$5,520.00	\$300.00	\$6,900.00	\$185.00	\$4,255.00
86	CONCRETE WHEEL STOP	2.00 EACH	\$250.00	\$500.00	\$250.00	\$500.00	\$500.00	\$1,000.00	\$1,000.00	\$2,000.00
87	SWING GATE	1.00 LS	\$10,000.00	\$10,000.00	\$5,000.00	\$5,000.00	\$5,500.00	\$5,500.00	\$3,100.00	\$3,100.00
88	LIGHT POLE BASES	5.00 EACH	\$2,000.00	\$10,000.00	\$1,300.00	\$6,500.00	\$1,500.00	\$7,500.00	\$1,365.00	\$6,825.00
89	LIGHT POLES	5.00 EACH	\$5,000.00	\$25,000.00	\$3,000.00	\$15,000.00	\$3,500.00	\$17,500.00	\$3,150.00	\$15,750.00
90	ELECTRIC SERVICE	1.00 LS	\$7,500.00	\$7,500.00	\$2,400.00	\$2,400.00	\$2,800.00	\$2,800.00	\$2,520.00	\$2,520.00
91	CONTROL PANEL CP-1	1.00 LS	\$20,000.00	\$20,000.00	\$7,000.00	\$7,000.00	\$8,000.00	\$8,000.00	\$7,350.00	\$7,350.00
92	CP-1 CONCRETE PAD	1.00 LS	\$2,500.00	\$2,500.00	\$2,500.00	\$2,500.00	\$2,800.00	\$2,800.00	\$2,625.00	\$2,625.00
93	CIRUIT P-1	1.00 LS	\$20,000.00	\$20,000.00	\$18,250.00	\$18,250.00	\$21,000.00	\$21,000.00	\$19,165.00	\$19,165.00
94	CIRUIT P-2	1.00 LS	\$12,000.00	\$12,000.00	\$7,645.00	\$7,645.00	\$8,800.00	\$8,800.00	\$8,030.00	\$8,030.00
95	CIRUIT P-3	1.00 LS	\$25,000.00	\$25,000.00	\$28,600.00	\$28,600.00	\$31,000.00	\$31,000.00	\$30,000.00	\$30,000.00
96	ELECTRIC HAND HOLES	5.00 EACH	\$1,500.00	\$7,500.00	\$590.00	\$2,950.00	\$700.00	\$3,500.00	\$620.00	\$3,100.00
97	ELECTRICAL AT EAST SHELTER	1.00 LS	\$5,000.00	\$5,000.00	\$1,500.00	\$1,500.00	\$2,000.00	\$2,000.00	\$1,575.00	\$1,575.00
98	ELECTRICAL AT WEST SHELTER	1.00 LS	\$5,000.00	\$5,000.00	\$1,500.00	\$1,500.00	\$2,000.00	\$2,000.00	\$1,575.00	\$1,575.00
99	RAIN GUARDIAN TURRET	5.00 EACH	\$3,500.00	\$17,500.00	\$15,000.00	\$75,000.00	\$6,000.00	\$30,000.00	\$6,750.00	\$33,750.00
100	DEBRIS BOOM	1.00 LS	\$180,000.00	\$180,000.00	\$245,000.00	\$245,000.00	\$75,000.00	\$75,000.00	\$201,000.00	\$201,000.00
TOTAL CONSTRUCTION COST				\$3,700,000.00		\$3,656,716.25		\$3,856,125.00		\$3,972,551.00
PERCENT OF ENGINEER'S ESTIMATE						-1.17%		+4.22%		+7.37%
						Low				