

#1 Caro Vista Pond
Engineers Opinion of Probable Construction Cost

Narrative: Caro Vista Pond is a wet basin which has been restored in the past with bank shaping and fiber roll installations. However, the banks continue to experience significant erosion on the eastern half of the basin likely due to muskrat damage and wind action along this steep slope. V3 recommends repairing the banks along the eastern half of the basin with re-grading, native shoreline plugs and native prairie buffer. Also recommended to install shoreline plugs around western half of basin to protect shoreline along with a 20-40' native prairie buffer around the entire basin.

Short-Term Management Recommendations
YEAR 1 - 3

YEAR 1						
ACTIVITY	EXPLANATION	COST ESTIMATE				
		Quantity	Unit	Cost/Unit	Events	Total Cost
Boomspray	polaris, turf grass	1.5	Acre	\$808/oc	2	\$2,424
Shoreline Restoration	Regrading, Bank Repair, Topsoil Import, Clay Export	1000.0	Ft	\$3.44/LF	1	\$3,440
Slope Shaping	Shape Toe w/ Mini	1000.0	Ft	\$2.00/LF	1	\$2,000
Seeding Prep	Rake Topsoil	1.5	Acre	\$330	1	\$495
Seeding	Site Area, 1 Year Guarantee	1.5	Acre	\$1,544	1	\$2,316
Blanket	S150BN	1.5	Acre	\$19,802	1	\$29,703
Wetland Plugs	Water perimeter, 2000 lin ft., 1 ft. center	2000.0	EA	\$3.90	1	\$7,800
Mow (10"-12")	High Mow in Prairie (2x Yr 1)	1.5	Acre	\$1,000	2	\$3,000
Weed Control (spot spraying)	2 people, 1 day (2 in Yr 1)	1.0	EA	\$900	2	\$1,800
Site Inspections/Meetings	2 each year	1.0	EA	\$200	2	\$400
						TOTAL: \$53,378
YEAR 2 - 3						
ACTIVITY	EXPLANATION	COST ESTIMATE				
		Quantity	Unit	Cost/Unit	Events	Total Cost
Weed Control (spot spraying)	2 people, 1 day (2 per year)	1.0	EA	\$900	4	\$3,600
Mow (10"-12")	High Mow in Prairie (1x Yr 2)	1.5	Acre	\$1,085	1	\$1,627.50
Prescribed Burn	Years 3 Coordination & 5 person crew	1.0	EA	\$2,470	1	\$2,470
Site Inspections/Meetings	each year	1.0	EA	\$225	2	\$450
Ongoing Mowing Contract	Reduction In Mowing Acreage	Deduct?				
						TOTAL: \$8,147.50
Contingency (10%):						
Soft Costs (Survey, Engr, Mngt - 20%):						
GRAND TOTAL YEAR 1-5:						

Notes:
Earthwork wages are per Union Rates. Restoration is based on non-prevailing wage labor.
Prescribed Burn pricing is based on single site burn. May be able to obtain cost efficiencies if grouped together.

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Short-Term Management Recommendations YEAR 1 - 3

YEAR 1						
ACTIVITY	EXPLANATION	COST ESTIMATE				
		Quantity	Unit	Cost/Unit	Events	Total Cost
Boomspray	polaris, turf grass	1.5	Acre	\$1,000	2	\$3,000
Shoreline Restoration	Regrading, Bank Repair, Topsoil Import, Clay Export	1000.0	Ft	\$50	1	\$50,000
Slope Shaping	Shape Toe w/ Mini	1000.0	Ft	\$10	1	\$10,000
Seeding Prep	Rake Topsoil	1.5	Acre	\$500	1	\$750
Seeding	Site Area, 1 Year Guarantee	1.5	Acre	\$3,500	1	\$5,250
Blanket	S150BN	1.5	Acre	\$7,300	1	\$10,950
Wetland Plugs	Water perimeter, 2000 lin ft., 1 ft. center	2000.0	EA	\$5	1	\$10,000
Mow (10"-12")	High Mow in Prairie (2x Yr 1)	1.5	Acre	\$500	2	\$1,500
Weed Control (spot spraying)	2 people, 1 day (2 in Yr 1)	1.0	EA	\$1,000	2	\$2,000
Site Inspections/Meetings	2 each year	1.0	EA	\$600	2	\$1,200
TOTAL:						\$94,650
YEAR 2 - 3						
ACTIVITY	EXPLANATION	COST ESTIMATE				
		Quantity	Unit	Cost/Unit	Events	Total Cost
Weed Control (spot spraying)	2 people, 1 day (2 per year)	1.0	EA	\$1,000	4	\$4,000
Mow (10"-12")	High Mow in Prairie (1x Yr 2)	1.5	Acre	\$500	1	\$750
Prescribed Burn	Years 3 Coordination & 5 person crew	1.0	EA	\$3,500	1	* \$3,500
Site Inspections/Meetings	each year	1.0	EA	\$600	2	\$1,200
Ongoing Mowing Contract	Reduction In Mowing Acreage	Deduct?				
TOTAL:						\$9,450
Contingency (10%):						\$10,410
Soft Costs (Survey, Engr, Mngt - 20%):						\$20,820
GRAND TOTAL YEAR 1-5:						\$135,330

Notes:

Earthwork wages are per Union Rates. Restoration is based on non-prevailing wage labor.
Prescribed Burn pricing is based on single site burn. May be able to obtain cost efficiencies if grouped together.

PROPOSAL FOR WORK**PIZZO & ASSOCIATES, LTD.**

Ecological Restoration & Planning
136 Railroad Street - PO Box 98
Leland, IL 60531

PH: 815.495.2300 / FX: 815.498.4406

Project Number:	113054-P-ORLB
Project Ecologist:	Tim Moritz
Mobile Phone:	815-355-0289
e-mail Address:	timm@pizzo.info

PROJECT:

Project Name:	2013 Stormwater Basin Management Plan
Project Address:	#1 Caro Vista Pond Orland Park, IL
Project Contact:	Frank Stec Village Of Orland Park Director of Parks and Buildings

Proposal Based On:

Wage Rate:	Earthwork wages are per Union Rates. Restoration is based on non-prevailing wage labor.
Taxes Included:	YES

Project Estimate:

Short-Term Management Recommendations - Year 1-3

WORK SHALL INCLUDE:**YEAR 1**

Item #	Item Description	Unit	Qty	Events	Unit price	Lump Sum Cost
1	Boomspray - Polaris, Turf Grass	ACRE	1.50	2	\$ 1,033.29	\$ 2,066.58
2	Shoreline Restoration - Regrading, Bank Repair, Culvert Repair of FES	FT	1000.00	1	\$ 22.28	\$ 22,280.00
3	Slope Shaping - Shape Toe w/ Mini	FT	1000.00	1	\$ 8.44	\$ 8,440.00
4	Seeding Prep - Tilling and Raking Topsoil	ACRE	1.50	1	\$ 2,025.84	\$ 3,038.76
4	Seeding - Site Area, 1 Year Guarantee	ACRE	1.50	1	\$ 2,112.88	\$ 3,169.32
5	Blanket - S150BN	ACRE	1.50	1	\$ 9,255.17	\$ 13,882.76
6	Wetland Plugs - Water perimeter, 2000 lin ft., 1 ft. center	EA	2000.00	1	\$ 3.04	\$ 6,080.00
7	Mow (10"-12") - High Mow in Prairie (2X Yr 1)	ACRE	1.50	2	\$ 434.30	\$ 868.60
8	Weed Control (spot spraying) - 2 people, 1 day (2 in Yr 1)	EA	1.00	2	\$ 1,001.22	\$ 2,002.44
9	Site Inspections/Meetings - 2 each year	EA	1.00	2	No Charge	
TOTAL						\$ 61,828.46

YEAR 2 - 3

Item #	Item Description	Unit	Qty	Events	Unit price	Lump Sum Cost
1	Weed Control (spot spraying) - 2 people, 1 day (2 per year)	EA	1.00	4	\$ 1,023.89	\$ 4,095.56
2	Mow (10"-12") - High Mow in Prairie (1X Yr 2)	ACRE	1.50	1	\$ 289.53	\$ 434.30
3	Prescribed Burn - Year 3, Coordination & 5 person crew	EA	1.00	1	Not Recommended	
4	Site Inspections/Meetings - each year	EA	1.00	2	No Charge	
TOTAL						\$ 4,529.86

GRAND TOTAL YEAR 1-3: \$ 66,358.32

RECOMMENDED ALTERNATES

1	ADD: Wetland Plugs - Water perimeter	EA	2800.00	1	\$ 3.04	\$ 8,512.00
2	ADD: Waterfowl Exclusion Fencing - Entire buffer area	EA	1.00	1	\$ 9,137.17	\$ 9,137.17
3	ADD: Additional Stewardship Visits - 4 people, 1 day (5 visits per year)	EA	1.00	10	\$ 2,050.00	\$ 20,500.00
4	ADD: Prescribed Burn - Year 4, Coordination & 5 person crew	EA	1.00	1	\$ 3,060.72	\$ 3,060.72
TOTAL						\$ 41,209.89

— NOT
RECOMMEND

Note: No work priced to be done at Prevailing Wage Rates. If work is to be done at Prevailing Wages, pricing will need to be revised.

AGREEMENT:

I/we represent and warrant that I/we have authority to enter into this Contract. We accept the aforementioned and further accept the PIZZO & ASSOCIATES, LTD. STANDARD TERMS AND CONDITIONS, attached and hereby made part of this contract. We do hereby authorize Pizzo & Associates, Ltd. to perform the work as stated.

Name
Village Of Orland Park

Date:

Tim Moritz
Pizzo & Associates, Ltd.

Date:

The terms of this proposal are valid for thirty (30) days from the date of this proposal



CONSTRUCTION COST PROPOSAL

Client: Mr. Frank Stec
Village of Orland Park
14700 Ravinia Avenue
Orland Park, IL 60462

Job Name: Imperial Pond Conversion
Turf vs Native Basin
Date of Plans: 4/17/2013
Date of Estimate: 4/17/2013

3.00	ALTERNATE 3 - NATIVE PLUG INSTALL	QUANTITY	UNIT	UNIT PRICE	TOTAL
3.10	CHANNEL STABILIZATION				
	3.11 Channel Grading	8.000	HR	\$ 185.00	\$ 1,480.00
	3.12 Erosion Blanket; S75BN	250.000	SY	\$ 2.50	\$ 625.00
	3.13 Seeding Channel Slope	1.000	LS	\$ 500.00	\$ 500.00
	3.14 Native Plug Installation	680.000	EA	\$ 5.00	\$ 3,400.00
	3.15 Goose Grid Protection	340.000	LF	\$ 1.50	\$ 510.00
	3.16 Slope Clearing	1.000	LS	\$ 500.00	\$ 500.00
	Subtotal - Channel Stabilization:				\$ 7,015.00
3.20	NATIVE PLANTING				
	3.21 Shoreline Plug Installation	300.000	EA	\$ 5.00	\$ 1,500.00
	3.22 Upland Plug Installation	1,000.000	EA	\$ 5.00	\$ 5,000.00
	3.23 Goose Grid Protection	1,000.000	SY	\$ 0.75	\$ 750.00
	3.24 1-Year Maintenance	1.000	LS	\$ 1,500.00	\$ 1,500.00
	Subtotal - Native Planting & Maintenance:				\$ 8,750.00
	TOTAL ALT 3 - NATIVE PLUG:				\$ 15,765.00

Notes:

- 1) Pond fill assumes adequate quantity from channel excavation
- 2) One year maintenance is limited to weed control and mowing
- 3) Muskrat trapping will be required to ensure success of plantings and is not included in this scope.
- 4) 210 Shoreline Plugs will be provided by V3 as warranty work from muskrat damage.