

Marydell Pond Committee

February 7, 2019, 7pm

**AGENDA**

- 1) Call to Order/Pledge of Allegiance/Moment of Silence
- 2) Approval of minutes of October 29, 2018
- 3) Financial report
- 4) Update on construction/dredging
- 5) Consider formal adoption of landscaping plan
- 6) Consider how the committee will be involved in the planting/landscaping work
- 7) Discuss long-term maintenance plan
- 8) Consider plan for presentation of landscaping plan to the Marydell community on March 7<sup>th</sup>
- 9) Any other matter/public comment
- 10) Adjournment

1 draft  
2 EAST GOSHEN TOWNSHIP  
3 MARYDELL POND COMMITTEE MEETING  
4 October 29, 2017  
5  
6

7 The East Goshen Township Marydell Pond Committee held a meeting on Monday,  
8 October 29, 2018 at the East Goshen Township Building.

9 Those present were: Chairman Jim Williams, Vice Chairman Russ Miller, Mike Fox, Jay  
10 Gagliardi, Michelle Guinan, Mary Ellen Miller, Kate Minshall, Debbie Williams, Jeff  
11 O'Donnell (via phone), Judy Difonzo (Pipeline Task Force), Jon Altshul (Assistant  
12 Township Manager), Mark Miller (Director of Public Works), Erich Meyer (Conservancy  
13 Board Chairman), Andy Tyler (Conservancy Board Member), Nathan Cline and Joel  
14 Totten (Pennoni Associates).

15  
16 **Call to Order & Pledge of Allegiance**

17 Jon called the meeting to order at 7:00 pm. He led the Pledge of Allegiance and called  
18 for a moment of silence to honor our troops and first responders.  
19

20 **Approval of Minutes**

21 The minutes of the September 20, 2018 meeting were approved.  
22

23 **Update on Permitting & Dredging**

24 Nate reported that all permits are done. Work can start tomorrow. The Township will  
25 have the permits and plans on site.

26 Mark verified that he will start tomorrow and dump the soil 6" deep.

27 Jim commented that the material to be dredged looks rich and can be mixed with the  
28 other soil. Since there is less to remove it will dry faster and is being placed where the  
29 kids will play. Stakes are being placed in the ground. Nate commented that the site is  
30 permitted so there is flexibility.

31 Mark commented that instead of 3 forebays, they may do 4 or 5 because of the volume of  
32 water. Nate explained the process of forebays and the space between the water. They  
33 will be natural structures. Joel mentioned that any chemicals that went into the pond  
34 before will be caught in the forebays. Mark will send samples of the materials to Penn  
35 State for testing. Nate mentioned that the water was tested and is good. There are no  
36 indications of any chemicals as you would find in an urban setting. If a red flag comes  
37 back, they will consider what needs to be done then.

38 Everyone agreed to start dredging now.

39 Mark commented that their hours will be 8:00 am to 3:00 pm Monday through Friday.  
40 They will not be there if it is raining. This pond has the largest area.  
41

42 **Discuss Pennoni Landscaping Proposal**

43 Joel has prepared a revised landscape plan, which includes a cost of materials. He  
44 provided a Landscape Concept report for the Committee members. These are Spring  
45 plantings. Joel gave an overview of the plan with goals to preserve views, provide  
46 access, low native wildflowers and green meadows, trails will be mowed lawn, and  
47 boulders will allow for fishing. Joel mentioned that the cool shading from the trees will  
48 help the fish. Nate spoke about the topography and where trees will be planted. Trees

1 will not be planted on the berm. Joel mentioned that they can't put trees on the gas  
2 easement.  
3 Mike Fox commented that he doesn't want street trees on Barker Drive.  
4 Mary Ellen reminded them that they need to discuss parking.  
5 Jeff (via phone) asked if the trees along Barker would impact the health of the pond.  
6 Remember right now the pond is a mess.  
7 Nate doesn't feel there is an impact to the health of the pond.  
8 Jim commented that the trees put there for shade did impact the view. He is encouraged  
9 that the health of the pond is being considered as well as the view. He mentioned  
10 planting a meadow no higher than 2-3 feet so the pond can be seen.  
11 Nate pointed out that as you walk around the area you will see the pond, gaps between  
12 the trees and plantings.  
13 Mark suggested doing a walk around the area in the spring.  
14 Mike spoke about the position of the sun during the day and that it will take years for the  
15 trees to grow. He asked about the leaves.  
16 Joel spoke about the effect of the sun on the water with no vegetation. Aquatic plants  
17 will be in the water. He feels it will provide a great view and the native plants will  
18 encourage wildlife. He mentioned that there is a recommended seed base for the  
19 forebays.  
20 Mike mentioned that a while ago he saw a turtle when he was walking around the pond.  
21 Mark commented that when they drained the pond, they only found 2 turtles, which they  
22 moved to another pond. On the Barker Drive side of the pond there are some trees that  
23 need to be removed, so they will remove them along with the invasives. He mentioned a  
24 wetland that they worked on and did some planting 2 years ago. It looks great now.  
25 Russell asked about watering the plantings in the summer. Mark will take care of that.  
26 There are 2 springs feeding water into the pond.  
27 Russell asked about an aerator. Mark commented that a bubbler will be used.  
28 Nate mentioned that the location of the forebays will be on the construction plan. They  
29 will be made of boulders. A wood pier would require additional permitting.  
30 Jon mentioned the delay that the rain caused this summer. He will tell the Board of  
31 Supervisors they may be slightly over budget this year. Nate pointed out the savings  
32 because Public Works is doing the work.  
33 Jim feels they have learned a lot and should tell the neighbors. Judy mentioned that they  
34 have an annual bond fire in December, which would be a good time to pass out flyers.

### 35 36 **Future Meetings**

37 Future meetings were discussed as follows:

38 Early February a Committee meeting depending on how the dredging goes.

39 Thursday March 7, 2019 public meeting for Marydell residents.

40 Tuesday March 19, 2019 meeting with the Board of Supervisors.

41 Jon complimented the Committee members for all they have done.  
42  
43

### 44 **Adjournment**

45 There being no further business, Russell moved to adjourn the meeting. Kate seconded  
46 the motion. The meeting was adjourned at 8:35 pm.  
47

48 Respectfully submitted,  
49

1  
2 Ruth Kiefer, Recording Secretary

**DRAFT**

February 8, 2019

Dear Neighbor:

On behalf of the Marydell Pond Committee, I would like to invite you to attend a public meeting on March 7<sup>th</sup> at 7:00pm at the East Goshen Township Building at 1580 Paoli Pike. The purpose of this meeting is to discuss the proposed landscaping plan for the area around the Marydell Pond on Barker Drive. The Committee's hope is that we can get community buy-in for the plan at this meeting prior to presenting the plan to the Township Board of Supervisors for adoption at its March 19<sup>th</sup> public meeting.

The draft landscaping plan calls for planting native plants and grasses and placing large boulders above the pond in order to slow the pace of storm water flowing downhill into the pond and trap more sediment before it reaches the pond. This landscaping plan will complement the installation of forebays, or deep holes around the pond, that will trap sediment from the inlet pipes that currently feed the pond. The Township will clean out these forebays regularly to avoid having to redredge the Pond again for many decades. Collectively, these steps will help to ensure that the pond remains an aesthetically beautiful and environmentally viable recreation area and wildlife habitat for generations to come.

One additional priority of the landscaping plan is to ensure that the viewscape of the pond from Barker Drive is relatively unimpeded, so that, to the extent possible, the pond remains clearly visible from the street and surrounding property lines from most angles.

We are hopeful that the majority of the landscaping improvements can be completed in the fall, once the dredged material from the pond has fully dried out.

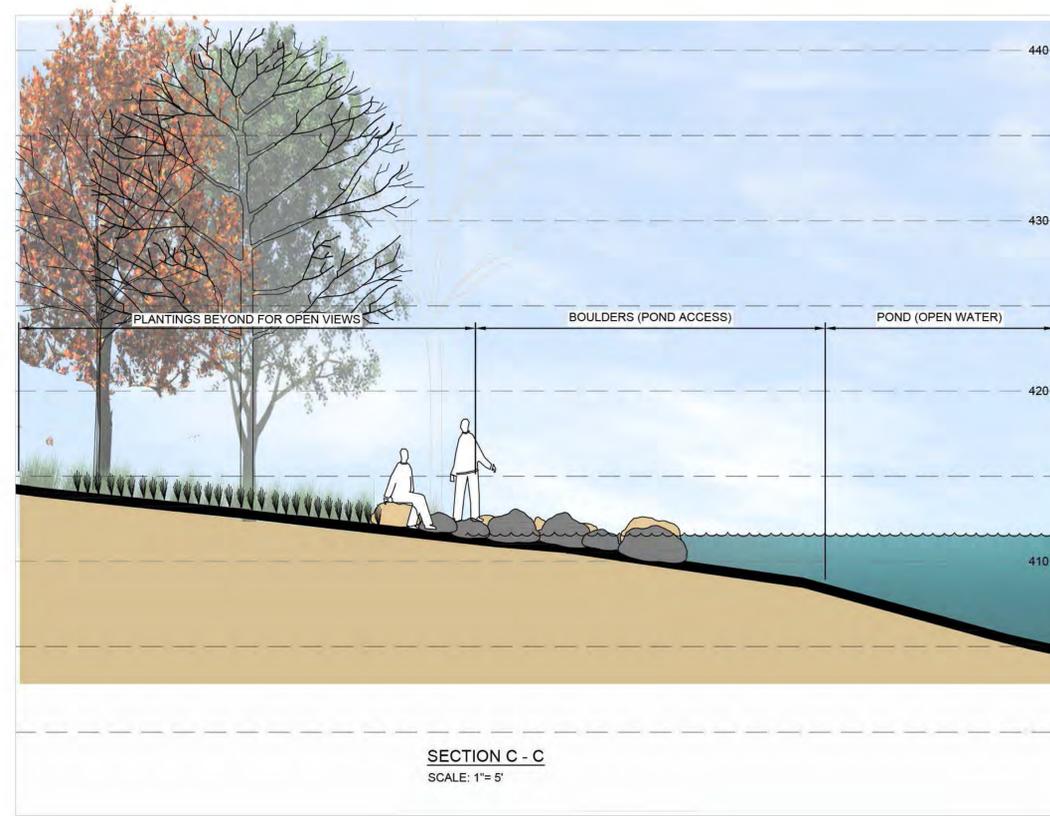
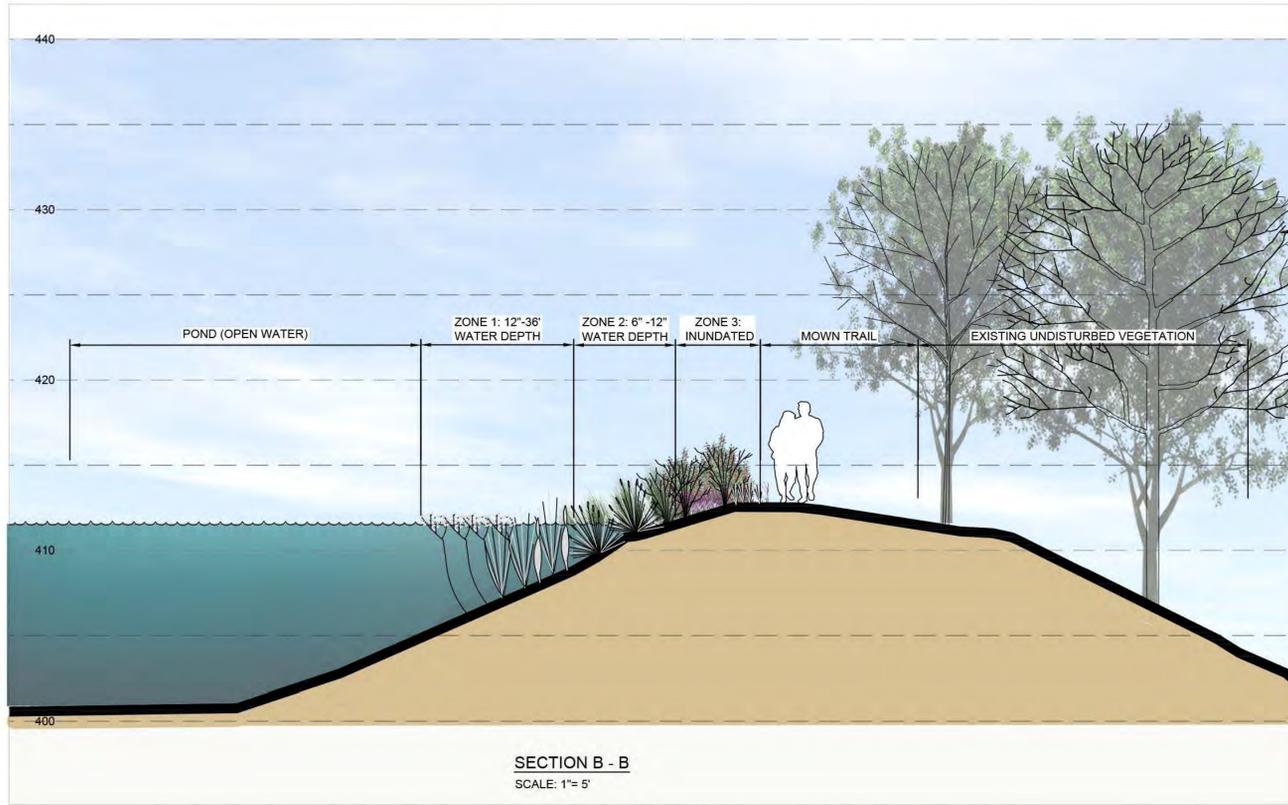
More information about this project can be found on the Township's website at: <https://eastgoshen.org/boards/pond-committees/marydell-pond-committee/>.

We look forward to seeing as many of you as possible on the evening of March 7. In the meantime, please do not hesitate to contact me at [jimwms1524@yahoo.com](mailto:jimwms1524@yahoo.com) or Russ Miller, Vice Chair, at [rusmill47@aol.com](mailto:rusmill47@aol.com) with any questions or concerns about this project.

Sincerely,

Jim Williams  
1524 High Meadow Lane  
Chair, Marydell Pond Committee





**PENNONI ASSOCIATES INC.**  
1900 Market Street, Suite 300  
Philadelphia, PA 19103  
T 215.222.3000 F 215.222.3588

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK

**MARY DELL POND RESTORATION PROJECT**  
BARKER DRIVE  
WEST CHESTER, PENNSYLVANIA

**CONCEPT LANDSCAPE PLAN**

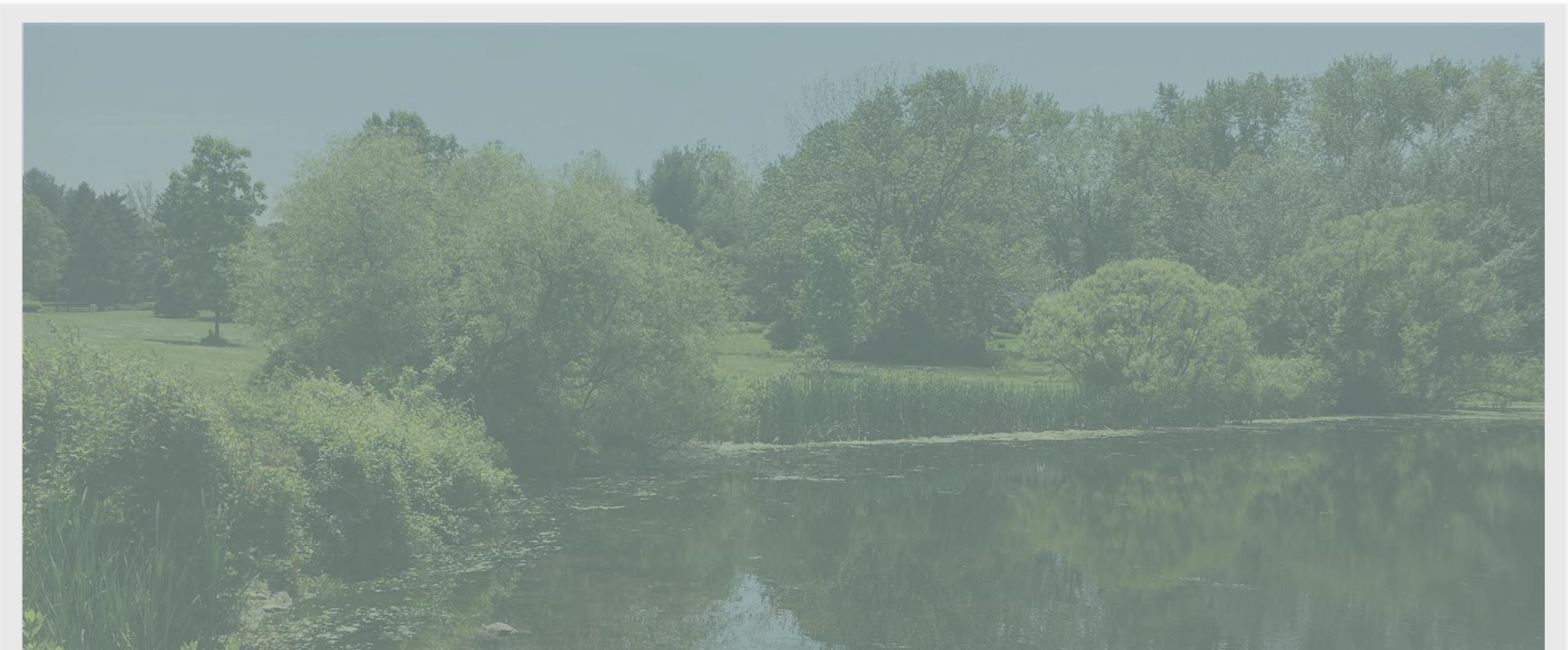
EAST GOSHEN TOWNSHIP  
1680 PAOLI PIKE  
WEST CHESTER, PA 19380

#	DATE	NO.	REVISIONS	BY
1	2018-10-10	2	REVISED PER CCDD REVIEW	DSD
2	2018-10-01	1	ADDED SH/CM/OSIA, REVISED POND BOTTOM ELEV.	DSD

ALL DOCUMENTS PREPARED BY PENNONI ASSOCIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON THE EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY PENNONI ASSOCIATES FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO PENNONI ASSOCIATES, AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS PENNONI ASSOCIATES FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

PROJECT	EGOST00015
DATE	2018-05-01
DRAWING SCALE	1"=50'
DRAWN BY	DSD
APPROVED BY	NMC

**CM2002**



# MARY DELL POND REHABILITATION

East Goshen Township

October 29, 2018

## Goals

- ◆ Preserve existing natural vegetation where possible
- ◆ Encourage native species
- ◆ Filter run-off
- ◆ Nutrient reduction
- ◆ Goose control
- ◆ Long term maintenance considerations
- ◆ Decrease mown turf areas
- ◆ Shade the southern exposure of pond to reduce thermal warming
- ◆ Establish Community resource - give families a place to fish and increase home values
- ◆ Optimize views from Barker Drive
- ◆ Provide multi season interest plantings
- ◆ Provide planting to attract birds and provide habitat
- ◆ Remove invasive species from site

## Mission

- ◆ Township Motto: "Preserving the Past, Serving the Present, Protecting the Future"



# INVASIVE SPECIES REMOVAL



## Trees



- ◆ Mimosa (*Albizia julibrissin*)

## Vines



- ◆ Oriental bittersweet (*Celastrus orbiculatus*)



- ◆ Porcelain berry (*Ampelopsis brevipedunculata*)

# INVASIVE SPECIES REMOVAL

## Shrubs



- ◆ Tartarian honeysuckle (*Lonicera tatarica*)



- ◆ Multiflora Rose (*Rosa multiflora*)

# LANDSCAPE CONCEPT



- ◆ Preserve views of pond
- ◆ Provide access to pond
- ◆ Low native wildflower & grasses meadow
- ◆ Zone vegetative buffer approach surrounding pond
- ◆ NO wetland disturbance
- ◆ Informal mown lawn paths
- ◆ Street trees along Barker Dr.

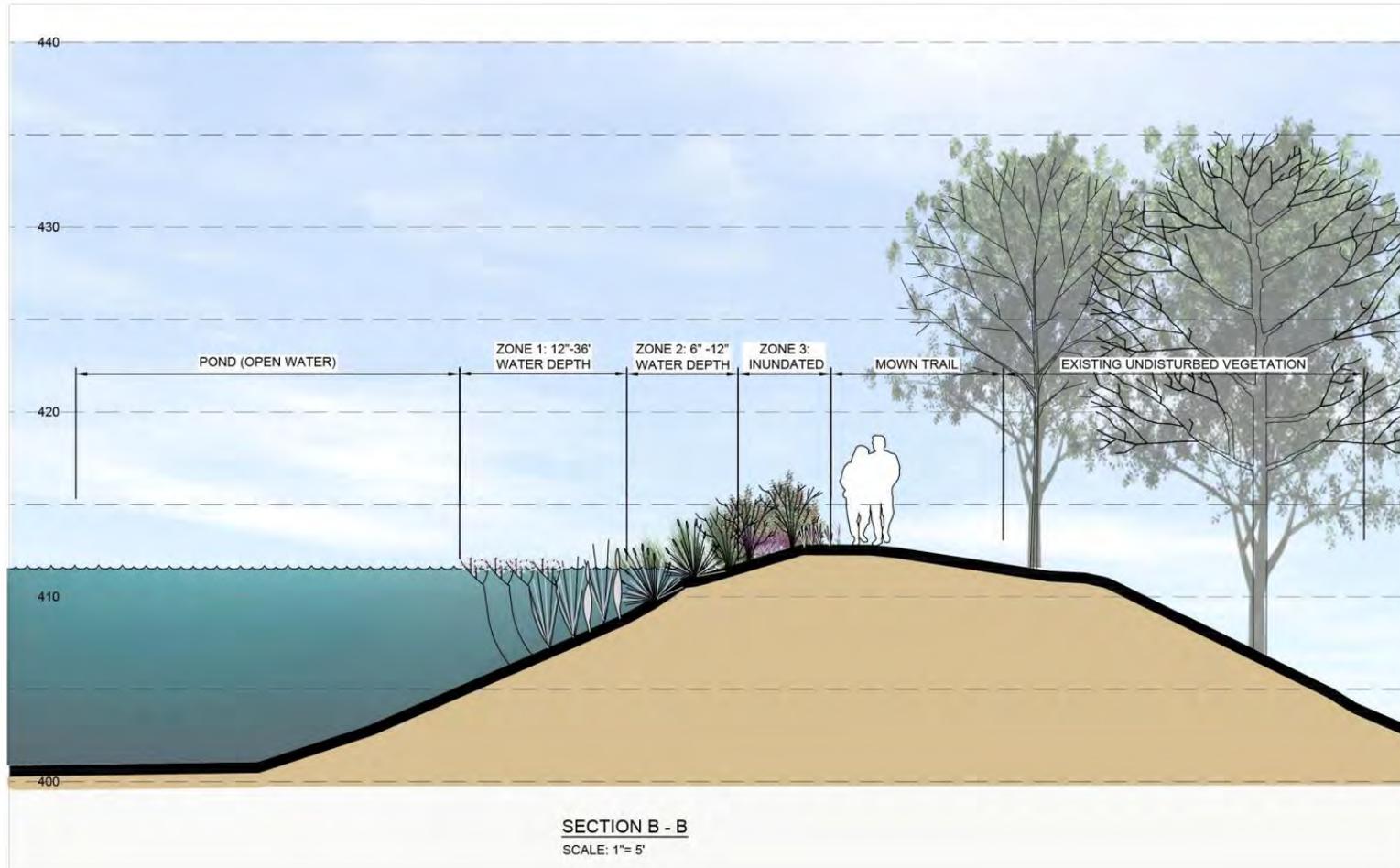


## Section A

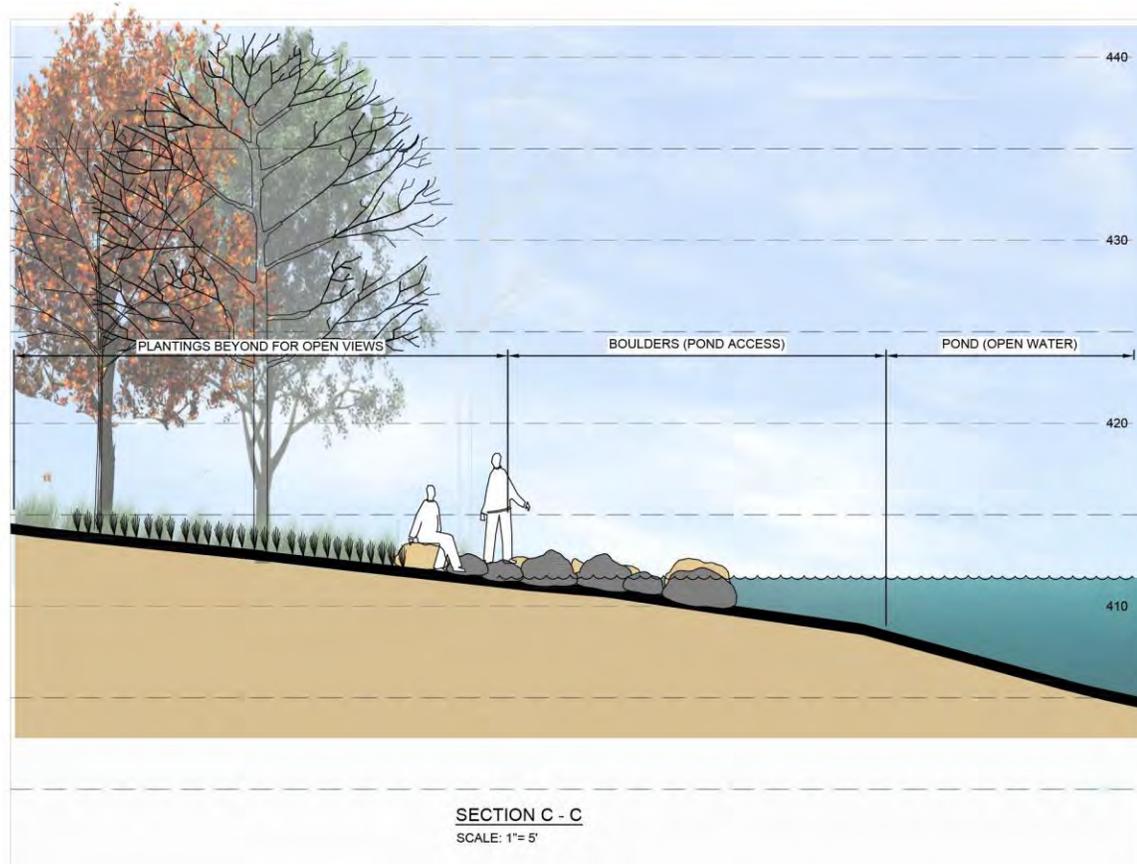


**SECTION A - A**  
SCALE: 1" = 5'

## Section B



## Section C



# EXISTING CONDITIONS PRIOR TO DREDGING



## Existing Photos – Barker Road views



## Existing Photos – Barker Road views



# PRELIMINARY MATERIAL COSTS



	BOTANICAL NAME	COMMON NAME	SF/AREA	TOTAL QTY.	SEED	2" PLUG	#2 CONT.	2.5-3" cal.	EST. COST	Unit Cost	Unit	Nursery Source
<b>ZONE 1</b>	<b>12,000 SF TOTAL AREA</b>											
	<b>AQUATIC PLANTS 12" - 36" WATER DEPTH</b>		12,000									
	Nymphaea odorata	Water lily	3,000	330		330				\$1.50	EA	Pinelands
	Lemna minor	Duckweed	3,000	330		330					EA	
	Potamogeton pectinatus	Sago Pondweed	3,000	330		330					EA	
	Potamogeton perfoliatus	Redhead Grass	3,000	330		330					EA	
				<b>1,320</b>		<b>1,320</b>			<b>\$1,980</b>			
<b>ZONE 2</b>	<b>6,000 SF TOTAL AREA</b>											
	<b>AQUATIC PLANTS 6"- 12" WATER DEPTH</b>		6,000									
	Alisma plantago-aquatica	Water plantain	600	150		150				\$1.50	EA	Pinelands
	Dulichium arundinaceum	Three-sided sedge	600	150		150					EA	
	Glyceria canadensis	Rattlesnake Grass	600	150		150				\$1.50	EA	Pinelands
	Glyceria striata	Fowl Mannagrass	600	150		150				\$1.50	EA	Pinelands
	Juncus effusus	Soft Rush	600	150		150				\$1.50	EA	Pinelands
	Peltandra virginica	Arrow arum	600	150		150				\$1.50	EA	Pinelands
	Polygonum spp	Smartweeds	600	150		150					EA	
	Pontederia cordata	Pickereelweed	600	150		150				\$1.50	EA	Pinelands
	Scirpus spp	Bulrushes	600	150		150				\$1.50	EA	Pinelands
	Sparganium eurycarpum	Giant bur-reed	600	150		150				\$1.50	EA	Pinelands
				<b>1,500</b>		<b>1,500</b>			<b>\$2,250</b>			
<b>ZONE 3</b>	<b>20,000 SF TOTAL AREA</b>											
	<b>Regulary Inundated</b>											
	<b>SEED MIX</b>											
	Floodplain Mix (ERNMX-154)		20,000		9					\$51.00	LB	Ernst
	cover crop of grain rye		20,000		14					\$50.25	LB	Ernst
									<b>\$1,160</b>			
	<b>SHRUBS</b>		8,000									
	Clethra alnifolia	Sweet pepperbush	800	32			32			\$15.00	EA	Octoraro
	Cornus stolonifera	Red osier Dogwood	1200	48			48			\$15.00	EA	Octoraro
	Cornus amomum	Silky Dogwood	800	32			32			\$15.00	EA	Octoraro
	Cornus racemosa	Grey dogwood	400	16			16			\$15.00	EA	Octoraro
	Lindera Benzoin	Spicebush	800	32			32			\$15.00	EA	Octoraro
	Ilex glabra	Inkberry holly	400	16			16			\$15.00	EA	Tuckahoe
	Ilex verticillata	Winterberry	1200	48			48			\$15.00	EA	Octoraro
	Vaccinium corymbosum	Highbush blueberry	1200	48			48			\$15.00	EA	Tuckahoe
	Viburnum dentatum	Arrowwood	1200	48			48			\$15.00	EA	Octoraro
				<b>320</b>			<b>320</b>		<b>\$4,800</b>			

# PRELIMINARY MATERIAL COSTS



## Cont.

<b>SHADE TREES</b>							
Betula nigra	River Birch		4	\$170.00	EA	Tuckahoe	
Liquidambar styraciflua	Sweetgum		8	\$170.00	EA	Tuckahoe	
Platanus occidentalis	American sycamore		6		EA		
Salix nigra	Black Willow		5		EA		
Quercus bicolor	Swamp White Oak		10	\$170.00	EA	Tuckahoe	
				33	\$5,610		
<b>UNDERSTORY TREES</b>							
Amelanchier canadensis	Serviceberry		12	\$125.00	EA	Tuckahoe	
Magnolia virginiana	Sweetbay Magnolia		8	\$125.00	EA	Tuckahoe	
				20	\$2,500		
<b>ZONE 4</b>							
<b>MEADOW (SEED MIX)</b>							
Low Growing Wildflower & Grass Mix (ERNMX-156)	270,000	248		\$2,975	\$12.00	LB	Ernst
<b>FOREBAY (SEED MIX)</b>							
Native Detention Area Mix (ERNMX-183)	3,800	2		\$105	\$60.00	LB	Ernst
<b>MOWN PATH</b>							
Commercial Conservation Mix (ERNMX-113)	31,000	107		\$1,000	\$9.37	LB	Ernst
<b>SPRAY EXISTING VEGETATION</b>	<b>300,000</b>			\$3,444	\$500	AC	Estimate
<b>OTHER LANDSCAPE IMPROVEMENTS</b>							
<b>BOULDERS</b>							
12'-36" River Jack Boulders	2,500	125		\$25,000	\$200.00	ton	
<b>RELOCATE TREES</b>							
Existing Trees			4	\$600	\$150.00		
<b>STREET TREES</b>							
Quercus imbricaria	Shingle Oak		5	\$850	\$170.00	EA	Tuckahoe
				<b>ESTIMATED TOTAL</b>	<b>\$52,274</b>		

\*Estimate is for material only and doesn't include installation costs

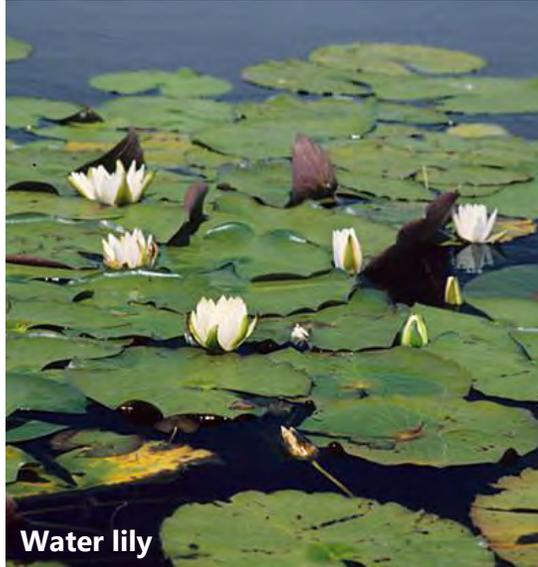
## **Zone 1: 12" – 36" water depth**

- ◆ water lily (*Nymphaea odorata*)
- ◆ duckweed (*Lemna* spp.)
- ◆ duck potato (*Sagittaria latifolia*)
- ◆ sago pondweed (*Potamogeton pectinatus*)
- ◆ redhead grass (*Potamogetonperfoliatus*).

## **Zone 2: 6" – 12" water depth**

- ◆ water plantain (*Alisma plantago-aquatica*)
- ◆ three-sided sedge (*Dulichium arundinaceum*)
- ◆ managrasses (*Glyceria* spp.)
- ◆ soft rush (*Juncus effusus*)
- ◆ arrow arum (*Peltandra virginica*)
- ◆ smartweeds (*Polygonum* spp.)
- ◆ pickerelweed (*Pontederia cordata*)
- ◆ many bulrushes (*Scirpus* spp.)
- ◆ giant bur-reed (*Sparganium eurycarpum*)

# LANDSCAPE CONCEPT



## Zone 3: Regularly Inundated

- ◆ river birch (*Betula nigra*)
- ◆ willow oak (*Quercus phellos*)
- ◆ swamp white oak (*Quercus bicolor*)
- ◆ sweetgum (*Liquidambar styraciflua*)
- ◆ American sycamore (*Platanus occidentalis*)
- ◆ serviceberry (*Amelanchier* spp.)
- ◆ sweet bay magnolia (*Magnolia virginiana*)
- ◆ highbush blueberry (*Vaccinium* spp.)
- ◆ red osier/silky dogwood (*Cornus stolonifera/amomum*)
- ◆ grey dogwood (*Cornus racemosa*),
- ◆ arrowwood (*Viburnum dentatum*)
- ◆ spicebush (*Lindera Benzoin*)
- ◆ sweet pepperbush (*Clethra alnifolia*)
- ◆ winterberry (*Ilex verticillata*)
- ◆ inkberry holly (*Ilex glabra*)

# LANDSCAPE CONCEPT

