Marydell Pond Committee October 29, 2018 at 7pm; East Goshen Township Building Agenda

- 1) Call to order/pledge of allegiance/moment of silence
- 2) Approval of minutes of September 20, 2018
- 3) Update on Permitting & Dredging
- 4) Discussion of Pennoni Landscaping Proposal
- 5) Select date for next meeting
- 6) Any Other Matter
- 7) Public Comment
- 8) Adjournment

1	EAST GOSHEN TOWNSHIP
2	MARYDELL POND COMMITTEE MEETING
3	1580 PAOLI PIKE
4	THURSDAY, SEPTEMBER 20, 2018
5	DRAFT MINUTES
6	
7	Present: Chairman Jim Williams; Vice Chair Russ Miller; Members Jay Gagliardi,
8	Scott Greene, Michelle Guinan, Dianne Haley, Mary Ellen Miller, Kate Minshall, Jeff
9	O'Donnell and Scott Rainsford; Erich Meyer (Chairman, Conservancy Board); Andy
10	Tyler (Conservancy Board); Nate Cline (Township Engineer) and Assistant
11	Township Manager Jon Altshul.
12	
13	Call to Order & Pledge of Allegiance
14	Jon called the meeting to order at 7:00 p.m. and led the pledge of allegiance.
15	
16	<u>Moment of Silence</u>
17	Jon called for a moment of silence to honor our troops and the victims of last night's
18	tragedy at Bellingham.
19	
20	Update on Pond Committee Purpose & Membership
21	The members of the Pond Committee highlighted the following issues that they
22	would like to see incorporated into a final landscaping plan for Marydell Pond:
23	 Concern about leaves getting into the pond
24	 Having an aerator and potentially turning it off in the winter to allow the
25	pond to freeze (note: currently the Township turns off the aerator in the Bow
26	Tree Pond during the winter)
27	 Place for fishing and skating (Jon observed that technically skating is not
28	allowed on Township ponds)
29	Taking down existing shrubs and trees
30	 Concern about neighborhood kids not playing on or around pond and heavy
31	equipment during construction (Jon indicated that the Township could put
32	up more signage about this during the construction period)
33	Location of mowed pathways
34	• Benches
35	A dock area where residents could fish from and/or using natural boulders
36	alongside the pond as a natural fishing point.
37	 Bat houses and other natural forms of pest control
88	 Developing a clear maintenance plan for the Township
39	 Having a continuing role for the Pond Committee after the project is
10	complete by, for example, ensuring that the maintenance plan is being
1	followed and/or should be altered.
2	Using meadows and native species to ensure the long-term viability of the
3	pond.
4	Deterring kids from going into spring house
-5	 Maintaining sledding hill

1 2 3 4 5	EAST GOSHEN TOWNSHIP MARYDELL POND COMMITTEE MEETING 1580 PAOLI PIKE THURSDAY, SEPTEMBER 20, 2018 DRAFT MINUTES
6 7 8 9 10 11	Present : Chairman Jim Williams; Vice Chair Russ Miller; Members Jay Gagliardi, Scott Greene, Michelle Guinan, Dianne Haley, Mary Ellen Miller, Kate Minshall, Jeff O'Donnell and Scott Rainsford; Erich Meyer (Chairman, Conservancy Board); Andy Tyler (Conservancy Board); Nate Cline (Township Engineer) and Assistant Township Manager Jon A ltshul.
13 14 15	<u>Call to Order & Pledge of Allegiance</u> Jon called the meeting to order at 7:00 p.m. and led the pledge of allegiance.
16 17 18	Moment of Silence Jon called for a moment of silence to honor our troops and the victims of last night's tragedy at Bellingham.
20 21 22 23 24 25 26 27 28 29 31 32 33	 Update on Pond Committee Purpose & Membership The members of the Pond Committee highlighted the following issues that they would like to see incorporated into a final landscaping plan for Marydell Pond: Concern about leaves getting into the pond Having an aerator and potentially turning it off in the winter to allow the pond to freeze (note: currently the Township turns off the aerator in the Bow Tree Pond during the winter) Place for fishing and skating (Jon observed that technically skating is not allowed on Township ponds) Taking down existing shrubs and trees Concern about neighborhood kids not playing on or around pond and heavy equipment during construction (Jon indicated that the Township could put up more signage about this during the construction period) Location of mowed pathways Benches
35 36 37 38 39 40 41 42 43	 A dock area where residents could fish from and/or using natural boulders alongside the pond as a natural fishing point. Bat houses and other natural forms of pest control Developing a clear maintenance plan for the Township Having a continuing role for the Pond Committee after the project is complete by, for example, ensuring that the maintenance plan is being followed and/or should be altered. Using meadows and native species to ensure the long-term viability of the pond. Deterring kids from going into spring house
45	Maintaining sledding hill

- Having a pond that works for all four seasons
- Discouraging parking on grass along Barker Drive by, for example, planting bushes or placing boulders along grass at edge of roadway.

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Update on Work

Ion and Nate provided an update on the work at the pond. Jon noted that the recent heavy rains had caused mud blow outs through the 48" line that had washed away the stone that had been laid, which had delayed the project somewhat. Nate added that the Township has now applied for its NPDES and Dam Safety Permits. Depending on how long those permits take will dictate when the dredging can occur.

10 11

Brainstorm draft landscaping plan

12 The Committee reviewed Pennoni's powerpoint slides. Jim raised concerns about 13 one bullet point in particular—"Shade the southern exposure of pond to reduce 14 thermal warming". He stated that ensuring a clear line of site to the pond is one of 15 the Committee's top priorities and that the landscaping plan should consider how 16 any planted trees will impact views of the water. Mary Ellen asked if Pennoni could 17 provide renderings of a landscaping plan from a street view, so that committee 18 19 members could get a better understanding of what the pond views might look like. 20 Andy raised concerns about project costs. Jon provided an overview of the project 21 budget and asked Nate that any landscaping plans include cost estimates.

22 23

Nate indicated that his landscape architect would be visiting the pond soon and would revise the proposed landscaping plan accordingly.

24 25 26

Next meeting

The committee agreed to meet next on Monday, October 29th at 7pm, pending Nate's confirmation that his landscape architect would be able to attend.

28 29 30

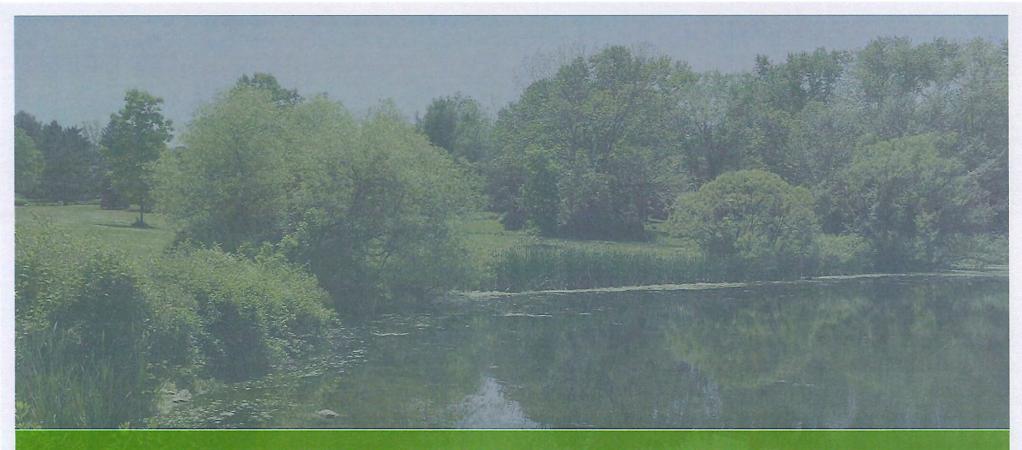
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Adjournment

There being no further business, the meeting was adjourned at 8:20pm.

31 32

- 33 Respectfully submitted,
- 34 Ion Altshul
- 35 Recording Secretary



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



Vines

Mimosa (Albizia julibrissin)



Oriental bittersweet (Celastrus orbiculatus)



Porcelain berry (Ampelopsis brevipedunculata)

INVASIVE SPECIES REMOVAL



Shrubs



Tartarian honeysuckle (Lonicera tatarica)



Multiflora Rose (Rosa multiflora)

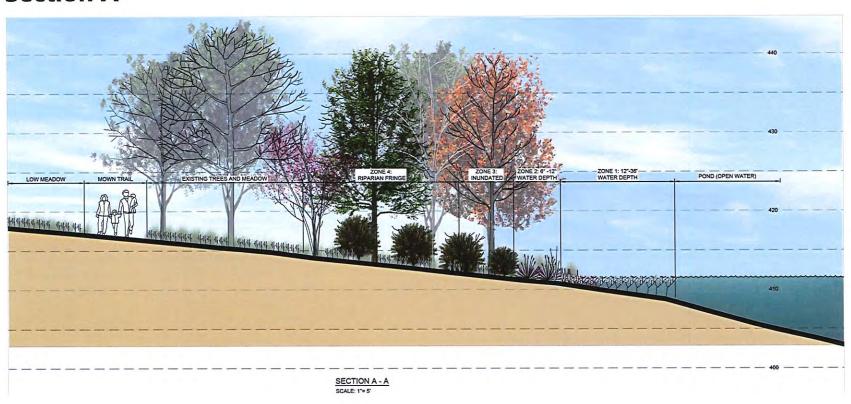


- Preserve views of pond
- Provide access to pond
- Low native wildflower & grasses meadow
- Zone vegetative buffer approach surrounding pond
- NO wetland disturbance
- Informal mown lawn paths
- Street trees along Barker Dr.



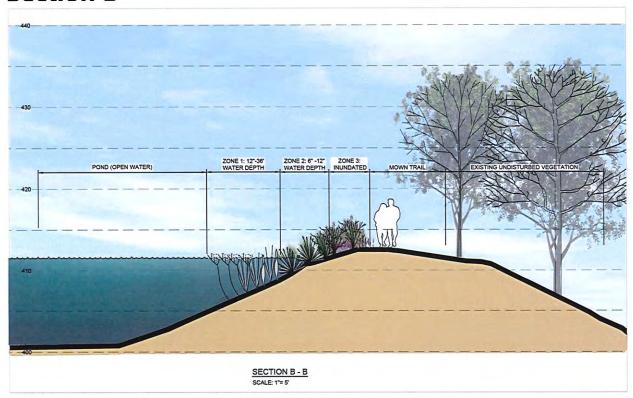


Section A



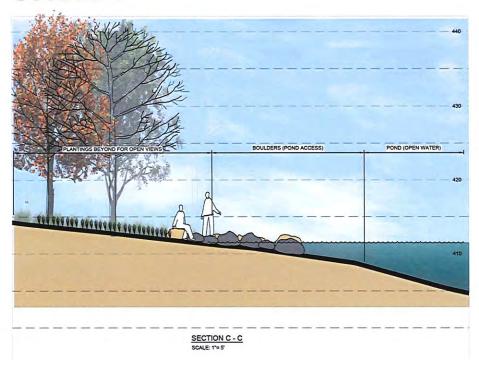


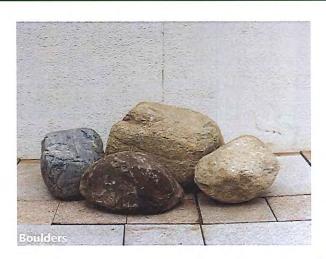
Section B





Section C







EXISTING CONDITIONS PRIOR TO DREDGING



Existing Photos – Barker Road views





EXISTING CONDITIONS PRIOR TO DREDGING



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
ONE 1	12,000	SF TOTAL AREA									
	AQUATIC PLANTS 12" -	36" WATER DEPTH	12,000			A			1000		
	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	
				1,320		1,320		\$1,980			
ONE 2	6,000	SF TOTAL AREA									
	AQUATIC PLANTS 6"-12	" WATER DEPTH	6,000			- 54		1 1			
	Alisma plantago-aquatica	Water plantain	600	150		150			\$1.50		Pinelands
	Dulchium arundinaceum	Three-sided sedge	600	150		150				EA	
	Glyceria canadensis	Rattlesnake Grass	600	150		150		1	\$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	\$1.50	EA	Pinelands
	Polygonum spp	Smartweeds	600	150		150		1	100000	EA	
	Pontederia cordata	Pickerelweed	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
				1,500		1,500		\$2,250			
ONE 3	20,000	SF TOTAL AREA									
	Regulary Inundated										
	SEED MIX										
	Floodplain Mix (ERNMX-1	54}	20,000		9				\$51.00	LB	Ernst
	cover crop of grain rye		20,000		14			N 22. 5	\$50.25	LB	Ernst
								\$1,160			
	SHRUBS		8,000					7.7	1000		
	Clethra alnifolia	Sweet pepperbush	800	32			32		\$15.00	EA	Octoraro
	Cornus stolonifera	Red osier Dogwood	1200	48			48		\$15.00	EA	Octoraro
	Comus amomum	Silky Dogwood	800	32			32		\$15.00	EA	Octoraro
	Comus racemosa	Grey dogwood	400	16			16		\$15.00	EA	Octoraro
	Lindera Benzoin	Spicebush	800	32			32		\$15.00	EA	Octoraro
	llex glabra	Inkberry holly	400	16			16		\$15.00	EA	Tuckahoe
	llex verticillata	Winterberry	1200	48			48	M .	\$15.00	EA	Octoraro
	Vaccinium corymbosum	Highbush blueberry	1200	48			48	1	\$15.00	EA	Tuckahoe
	Commence of the control of the property of the control of the cont		4000	40			48	1	C15.00	FA	Octoraro
	Viburnum dentatum	Arrowwood	1200	48			40		\$15.00	EA	Octorara

PRELIMINARY MATERIAL COSTS



Cont.

					ESTIMATED TOTAL	\$52,274			
Quercus imbricaria	Shingle Oak					\$850	\$170.00	EA	Tuckaho
STREET TREES									
Existing Trees					4	\$600	\$150.00		
RELOCATE TREES						teen	6150.00		
DEL 00175 TDEES									
12'-36" River Jack Boulder	s	2,500	125			\$25,000	\$200.00	ton	
BOULDERS		- 200				10000			
OTHER LANDSCAPE IMP	PROVEMENTS								
SPRAY EXISITING VEGE	ATION	300,000				\$3,444	\$500	AC	Estima
Commercial Conservation	Mix (ERNMX-113)								
MOWN PATH		31,000		107		\$1,000	\$9.37	LB	Ernst
FOREBAY (SEED MIX) Native Detention Area Mix	(ERNMX-183)	3,800		2		\$105	\$60.00	LB	Ernst
Low Growing Wildflower &	Grass Mix (ERNMX-156)	270,000		248		\$2,975	\$12.00	LB	Ernst
MEADOW (SEED MIX)									
4									
					20	\$2,500			
Magnolia virginiana	Sweetbay Magnolia				8		\$125.00	EA	Tuckah
UNDERSTORY TREES Amelanchier canadensis	Serviceberry				12		\$125.00	EA	Tuckaho
					33	\$5,610			
Quercus bicolor	Swamp White Oak				10		\$170.00	EA	Tuckah
Salix nigra	Black Willow				5			EA	
Liquidambar styraciflua Platanus occidentalis	American sycamore				6		\$170.00	EA	iuckan
Betula nigra	River Birch Sweetgum				4		\$170.00 \$170.00		Tuckah

^{*}Estimate is for material only and doesn't include installation costs



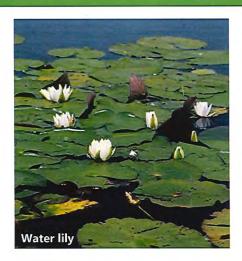
Zone 1: 12" – 36" water depth

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

Zone 2: 6" – 12" water depth

- water plantain (Alisma plantago-aquatica)
- three-sided sedge (Dulchium 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)

















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 (llex verticillata)
- inkberry holly (Ilex glabra)







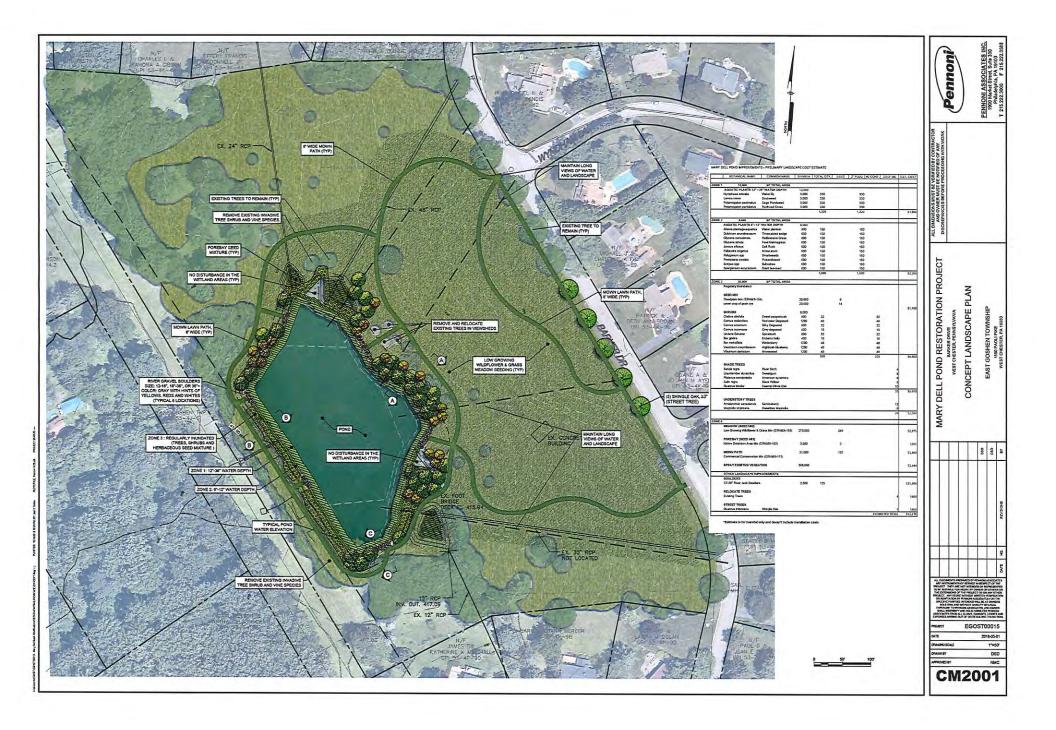


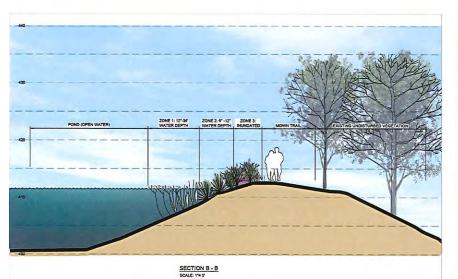


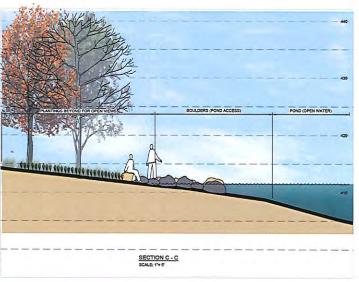


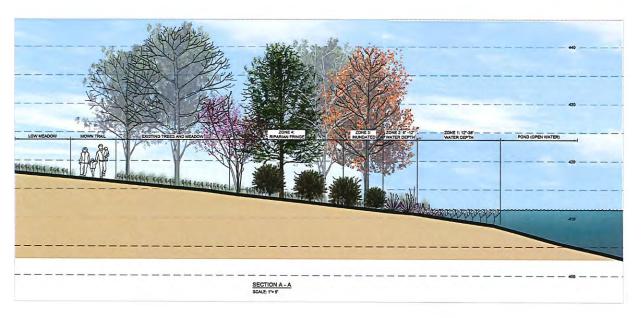












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