



Community Meeting
March 31, 2026

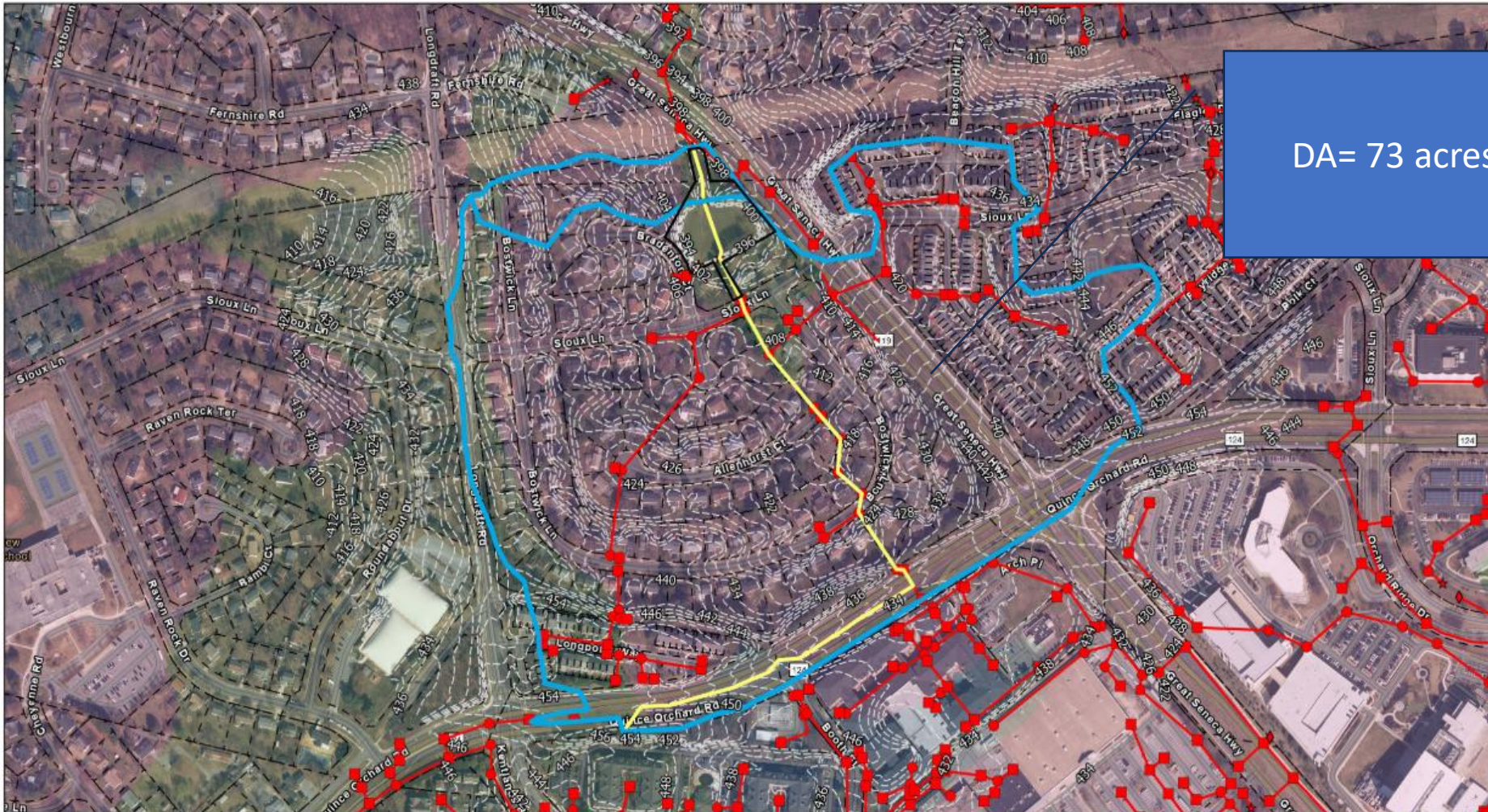
Sumer Alstarwah, Professional Engineer
Katie Scott, Professional Engineer






Coastal Resources, Inc.



- **Small, woman owned environmental consulting firm**
- **45 years experience providing environmental and engineering services to local and state agencies**
- **CRI has some of the most experienced environmental professionals in the area**



DA= 73 acres

 <p>Bridalwood Stream Design Existing Drainage Area Map</p> <p>Gaithersburg, Maryland March 2026</p>	<ul style="list-style-type: none"> ◆ Gaithersburg Headwalls ★ Gaithersburg Outlets — Gaithersburg Pipes ● Gaithersburg Manholes ■ Gaithersburg Inlets 	<ul style="list-style-type: none"> □ MoCo_Property □ Site Boundary — Tc Path — Drainage Area 	<p>Hydrologic Soil Group</p> <ul style="list-style-type: none"> □ B □ C □ C/D 	 <p>0 1,000 2,000 feet</p> <p>1 inch = 300 feet</p> <p>Map Center, NAD83 39.1293°, -77.241°</p>	 <p>1 inch = 0.5 miles</p>
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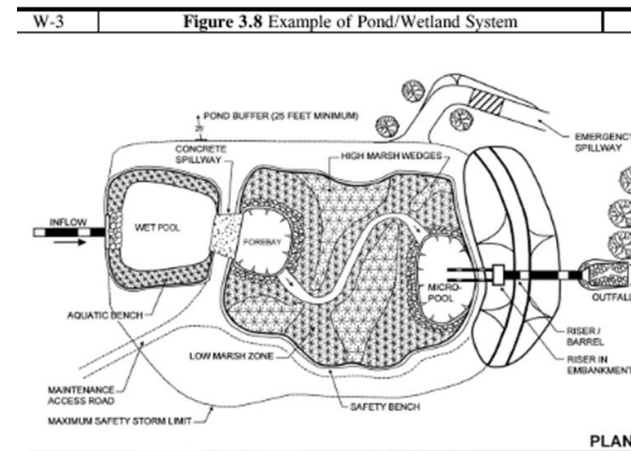


EXISTING CONDITIONS



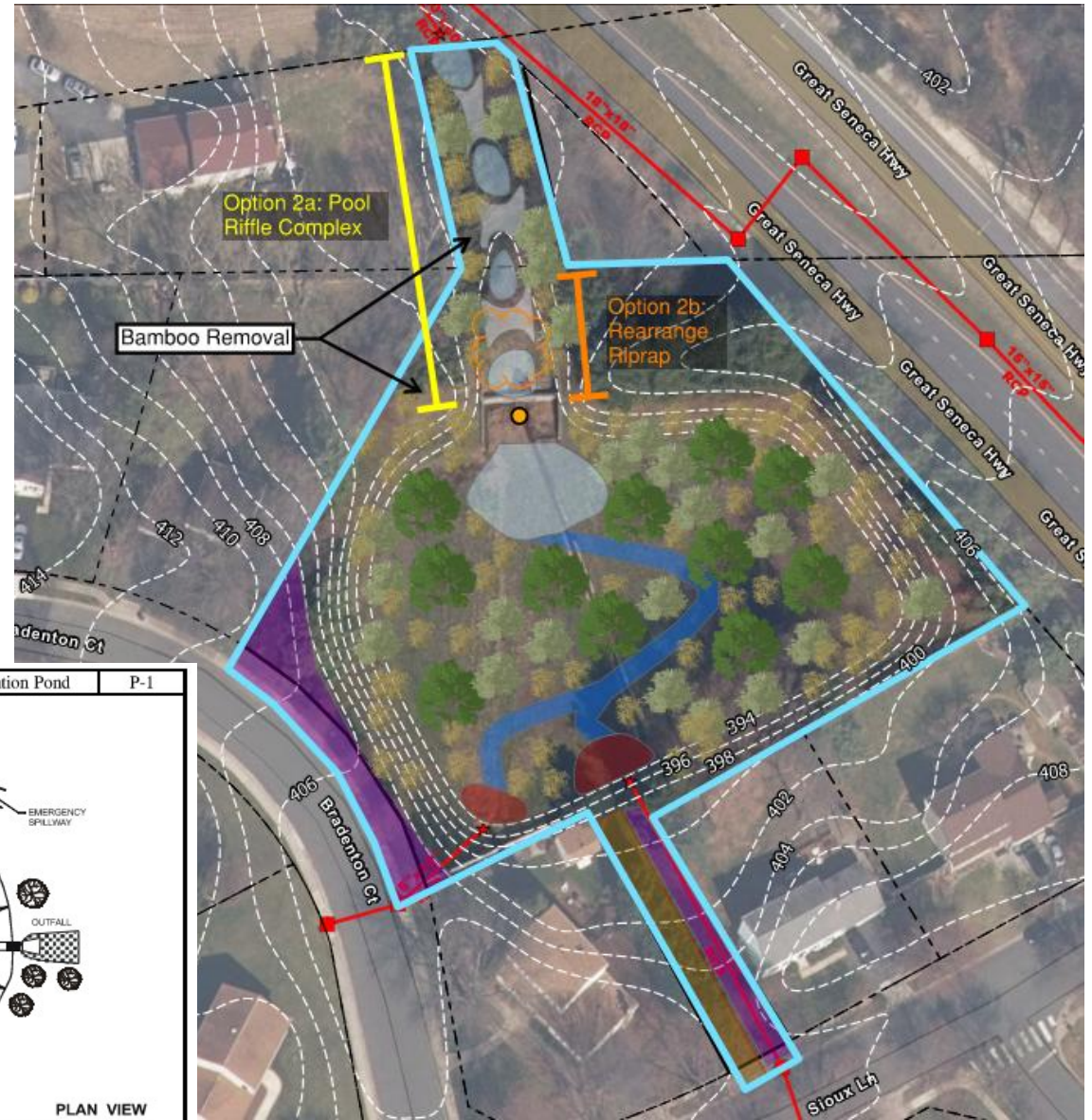
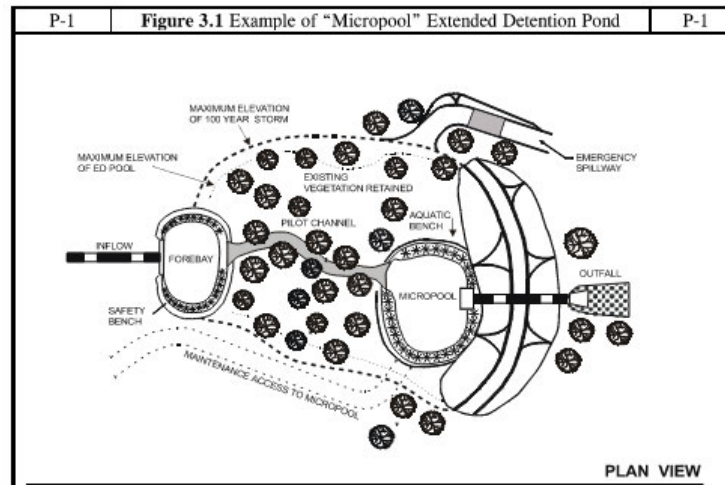
Alternative 1- Pond/Wetland System

- Remove concrete channel
- Retain existing weir
- Add low flow non-clogging riser
- Add micropool before weir
- Add meandering channel
- Add sediment forebays
- Plant high marsh and low marsh natives in basin; trees along perimeter
- Replace bamboo with native plants



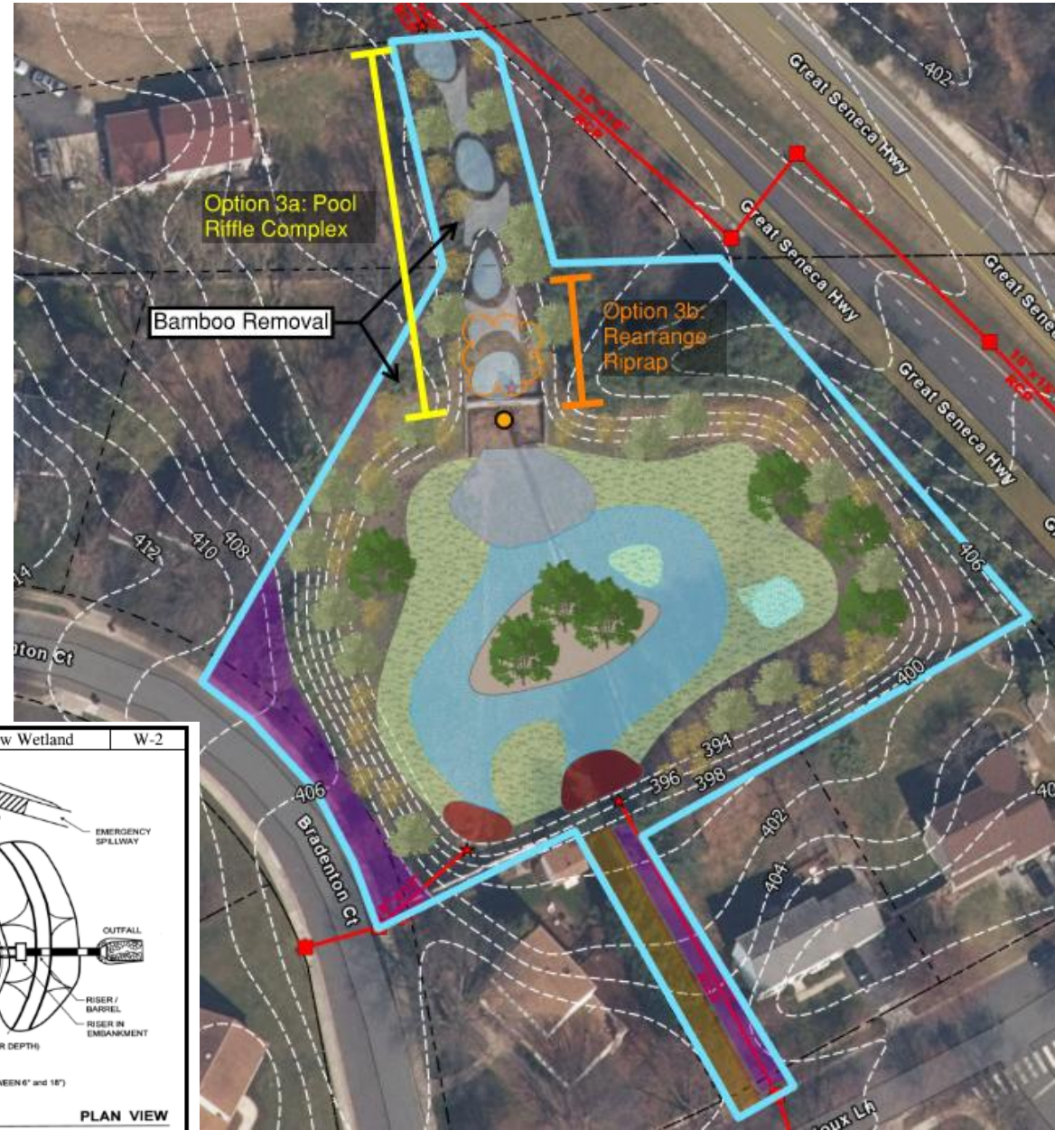
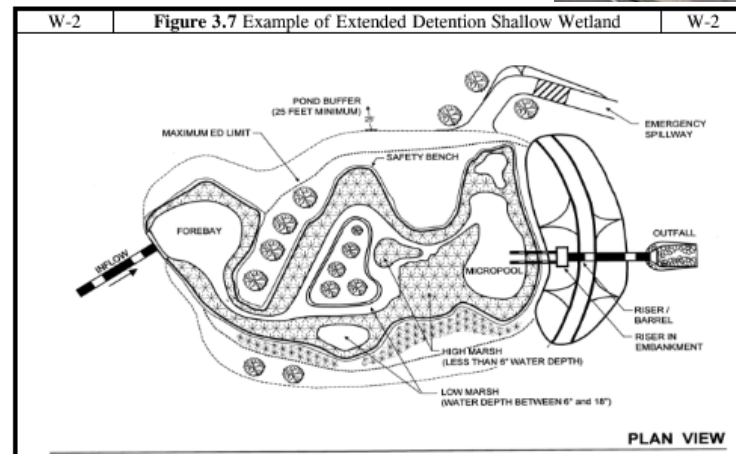
Alternative 2- Micropool Extended Detention Pond

- Remove concrete channel
- Retain existing weir
- Add low flow non-clogging riser
- Add micropool before weir
- Add meandering channel
- Add sediment forebays
- Plant trees in basin
- Bamboo removal



Alternative 3- Ext. Det. Shallow Wetland

- Remove concrete channel
- Retain existing weir
- Add low flow non-clogging riser
- Add micropool before weir
- Add meandering channel
- Add sediment forebays
- Plant wetlands in basin; trees on island and around perimeter
- Bamboo removal



Alternative 4: Removal of Concrete Weir

- The pond was excavated; there is no defined dam to remove
- Removing the existing concrete weir would remove the channel and flood protection capability
- There is an existing mapped floodplain below this facility
- The weir provides water quality treatment; retains sediment

Table 4.3 BMP Selection - Stormwater Treatment Suitability

CODE	BMP List	Re-Ability	Cp Control	Qp Control	Additional Safety Concerns	SPACE	ACCEPT HOTSPOT RUNOFF
P-1	Micropool ED	No ¹	Yes	Yes	No	Yes	Yes ³
P-2	Wet Pond	No ¹	Yes	Yes	Yes	Varies	Yes ³
P-3	Wet ED Pond	No ¹	Yes	Yes	Yes	Yes	Yes ³
P-4	Multiple Pond	No ¹	Yes	Yes	Yes	No	Yes ³
P-5	Pocket Pond	No ¹	Yes	Yes	Varies	Yes	Yes ³
W-1	Shallow Wetland	Varies ²	Yes	Yes	No	No	Yes ³
W-2	ED Wetland	Varies ²	Yes	Yes	Varies	Varies	Yes ³
W-3	Pond/Wetland	Varies ²	Yes	Yes	Yes	No	Yes ³
W-4	Pocket Wetland	No	Varies	Varies	No	Varies	Yes ³
I-1	Infiltration Trench	Yes	Varies	Varies	No	Yes	No ³
I-2	Infiltration Basin	Yes	Varies	Varies	No	Varies	No ³
F-1	Surface Sand Filter	Varies ²	Varies	Varies	No	Yes	Yes ⁴
F-2	Underground SF	No	No	No	Varies	Yes	Yes
F-3	Perimeter SF	No	No	No	No	Yes	Yes
F-4	Organic Filter	Varies ²	Varies	Varies	No	Yes	Yes ⁴
F-5	Pocket Sand Filter	Varies ²	Varies	Varies	No	Yes	Yes ⁴
F-6	Bioretention	Yes	Varies	Varies	No	Varies	Yes ⁴
O-1	Dry Swale	Yes	No	No	No	Varies	Yes ⁴
O-2	Wet Swale	No	No	No	No	Varies	No

1 Structures that require impermeable liners or that intercept groundwater may not be used for groundwater recharge.

2 Re- may be provided by exfiltration (see Chapter 3.4).

3 Not allowed unless pretreatment to remove hydrocarbons, trace metals, and toxicants is provided.

4 Yes, but only if bottom of facility is lined with impermeable filter fabric that prevents leachate infiltration.

Frequently asked questions

- **Mosquitos**
- **Bamboo Removal**
- **Construction duration**
- **Schedule**

30% Design: June 2026

60% Design: October 2026

100% Design: January 2027

Next community meeting: November 2026

Construction: June 2027-February 2028



If designed and maintained properly, stormwater management facilities should not support excessive mosquito populations because they:

- Drain water within a week or less;
- Contain moving water; or
- Contain predators that feed on mosquitoes (or mosquito predators)



This bioretention garden drains water within 24-hours. Most will drain in two to three days

Most mosquito issues originate from small amounts of standing water in containers, potted plants, tarps, etc. The first step to reducing most mosquito issues is eliminating those sources of standing water. Sometimes trash left near stormwater facilities might be the source of the mosquitos. (Montgomery County Government)

Questions?

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COASTAL RESOURCES INC.



SURVEY TIME!

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Project website:

<https://www.gaitthersburgmd.gov/government/projects-in-the-city/bridalwood-stream-design>