

MEMORANDUM

To: Mayor and City Council

From: David Elliott

Date: January 8, 2018

Subject: **Dunwoody Nature Center Detention Facility and Micropool Funding Request**

ITEM DESCRIPTION

Approval of funding for the installation of a stormwater detention facility and micropool at the Dunwoody Nature Center.

BACKGROUND

The main building of the Dunwoody Nature Center is located downstream of numerous adjoining properties. Runoff from several of these properties collect in a drainage ditch located north of the Dunwoody Nature Center Driveway. This ditch flows east towards Wild Cat Creek along the north side of the main building at the Nature Center. As currently configured, the Dunwoody Nature Center's trails, outbuildings and program areas are negatively affected by erosion, debris accumulation and potential flooding from this drainage. In addition, the construction of the Nature Center Pavilion will also increase the impervious area in this basin, resulting in a small increase in stormwater flows to these areas.

The proposed extended detention and micropool facility will address the current problem, alleviate any additional impacts from the construction of the Nature Center Pavilion and provide a water quality benefit. Micropools have a moderate to high rate of urban pollutant removal, are highly accepted in public areas and introduce opportunities for wildlife.

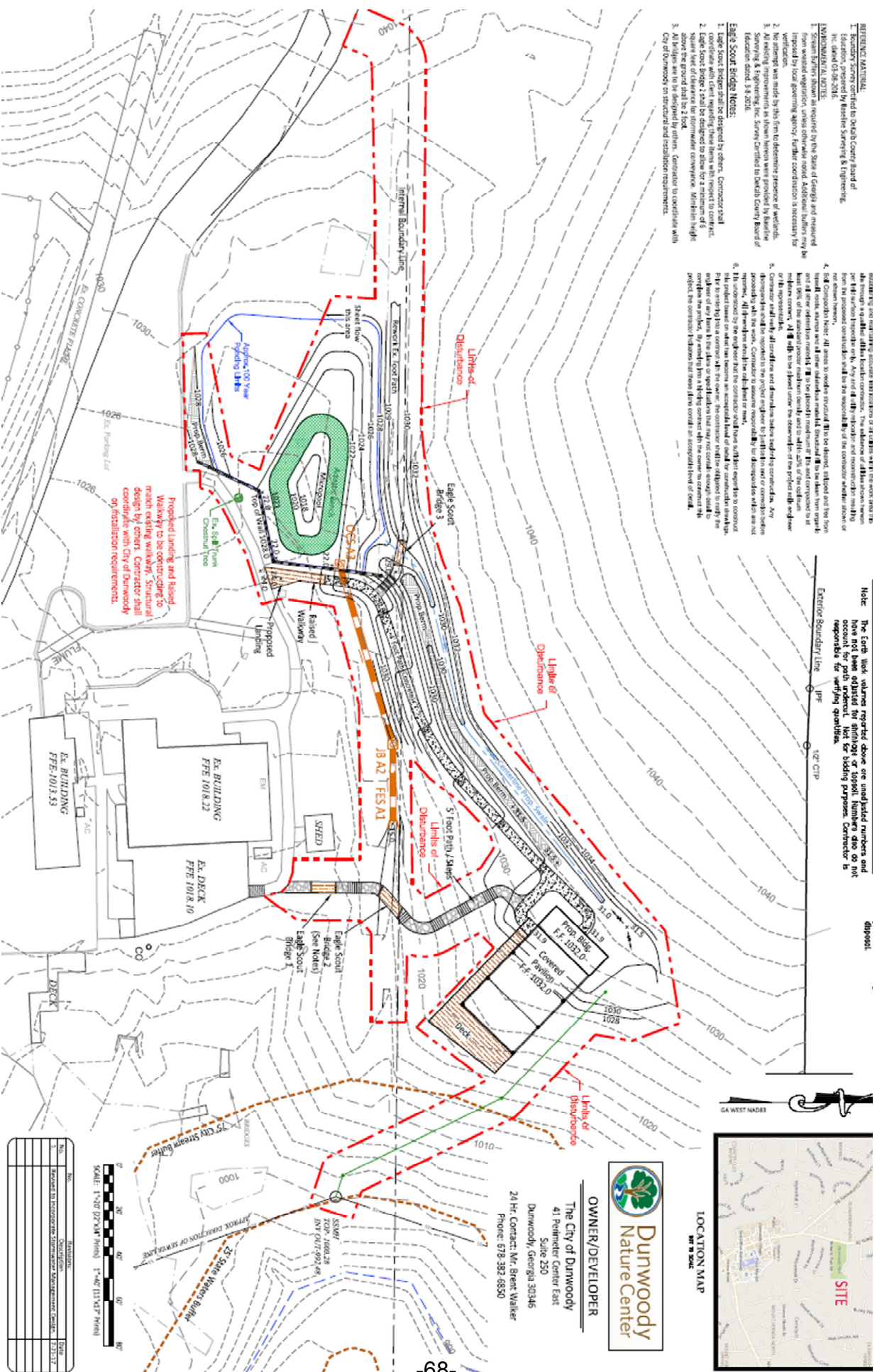
RECOMMENDED ACTION

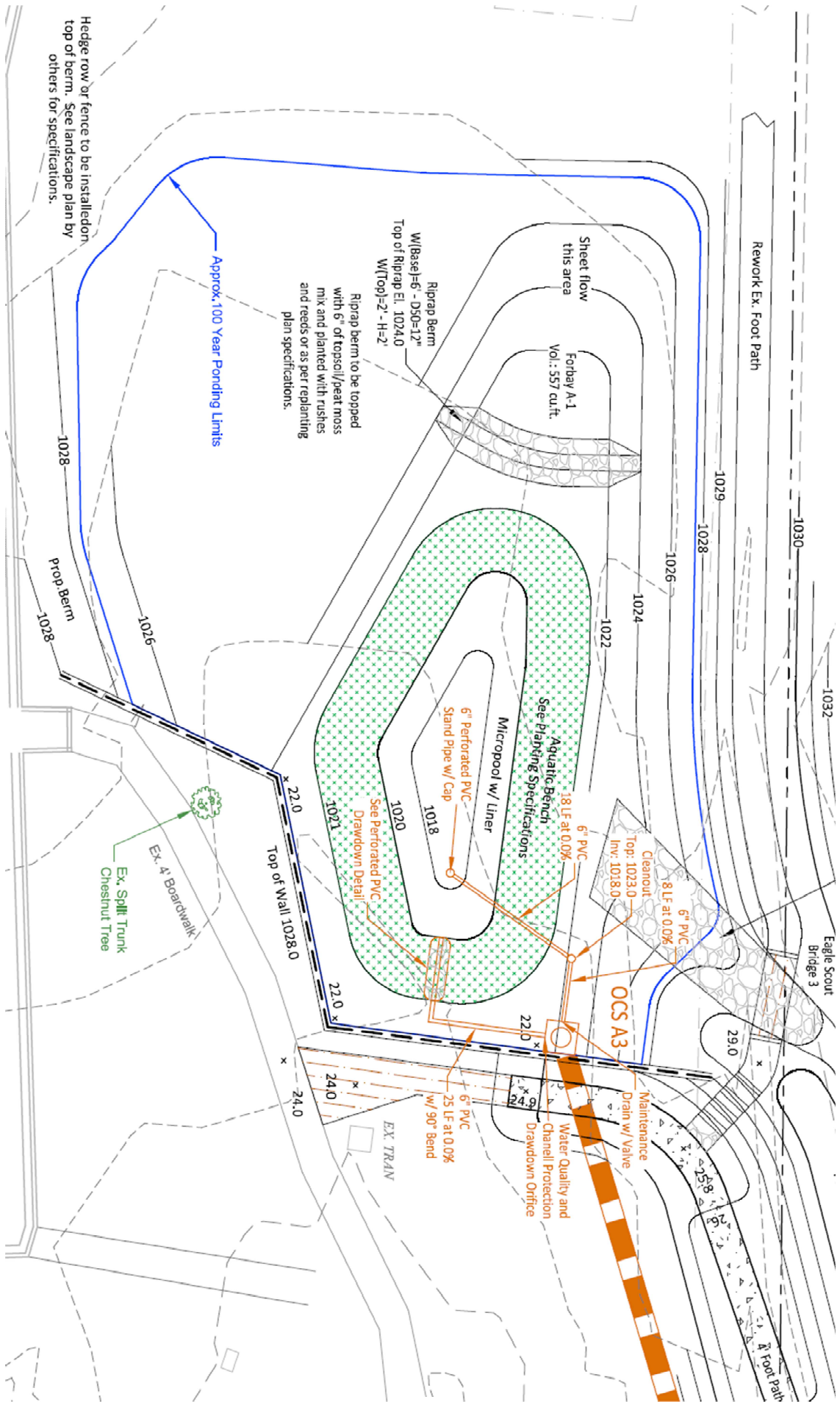
Staff recommends approving funding for the construction of an extended detention facility and micropool in an amount of \$215,417.40, which includes a 10% contingency.

[illegible]

Note: The Earth Work volumes reported above are unadjusted numbers and have not been adjusted for shrinkage or swell. Numbers also do not account for path undercut. Not for bidding purposes. Contractor is responsible for verifying quantities.

disposal.





SIDEWALK UNIT PRICE CONTRACT
RFP 15-03

Dunwoody Nature Center Pond Wall and Storm Project

10/26/2017

Item No.	Description	Quantity	Unit	Unit Cost	Total
	MOBILIZATION	1	EA	\$1,400.00	\$1,400.00
	Silt Fence Type C	225	LF	\$3.00	\$675.00
	Tree Save Fence 4'	650	LF	\$2.00	\$1,300.00
	Tree Stump Demo	7	EA	\$750.00	\$5,250.00
	Clearing/Grubbing	1468	SY	\$2.00	\$2,936.00
	Dirt Export	1439	CY	\$21.00	\$30,219.00
	Channel Excavation	1439	CY	\$7.00	\$10,073.00
	Surveying	1	LS	\$8,000.00	\$8,000.00
	FLARED END SECTION	1	EA	\$575.00	\$575.00
	Junction Box	8	VF	\$286.00	\$2,288.00
	Outlet Control Structure	1	EA	\$5,600.00	\$5,600.00
	30" HDPE	122	LF	\$33.00	\$4,026.00
	Invert	2	EA	\$200.00	\$400.00
	6X6 Perferated Drain	63	LF	\$28.00	\$1,764.00
	6" Stand Pipe/Fittings/Cleanout	1	LS	\$787.00	\$787.00
	French Drain	125	LF	\$18.00	\$2,250.00
	Backfill	10	TN	\$38.00	\$380.00
	#57 Bedding Stone	41	TN	\$36.00	\$1,476.00
	Wall and Footing	1	LS	\$55,570.00	\$55,570.00
	Granite Wall Facing and Cap	1	LS	\$47,000.00	\$47,000.00
	Granite Face OCS	1	LS	\$3,299.00	\$3,299.00
	#57 Wall Backfill	30	TN	\$36.00	\$1,080.00
	Clay Micro Pool	1	LS	\$7,500.00	\$7,500.00
	Rip Rap Berm	22	TN	\$36.00	\$792.00
	River Rock Outlet Protection	49	TN	\$45.00	\$2,205.00
	Import and Place Topsoil	88	CY	\$26.00	\$2,288.00
					\$195,834.00

CONTINGENCY 10%

\$19,583.40

Grand Total

\$215,417.40