



Johns Homestead Dam and Park Renovations

Tucker, Georgia

**Community Meeting
Project Update**

August 28, 2023



**FREEDMAN
ENGINEERING
GROUP**

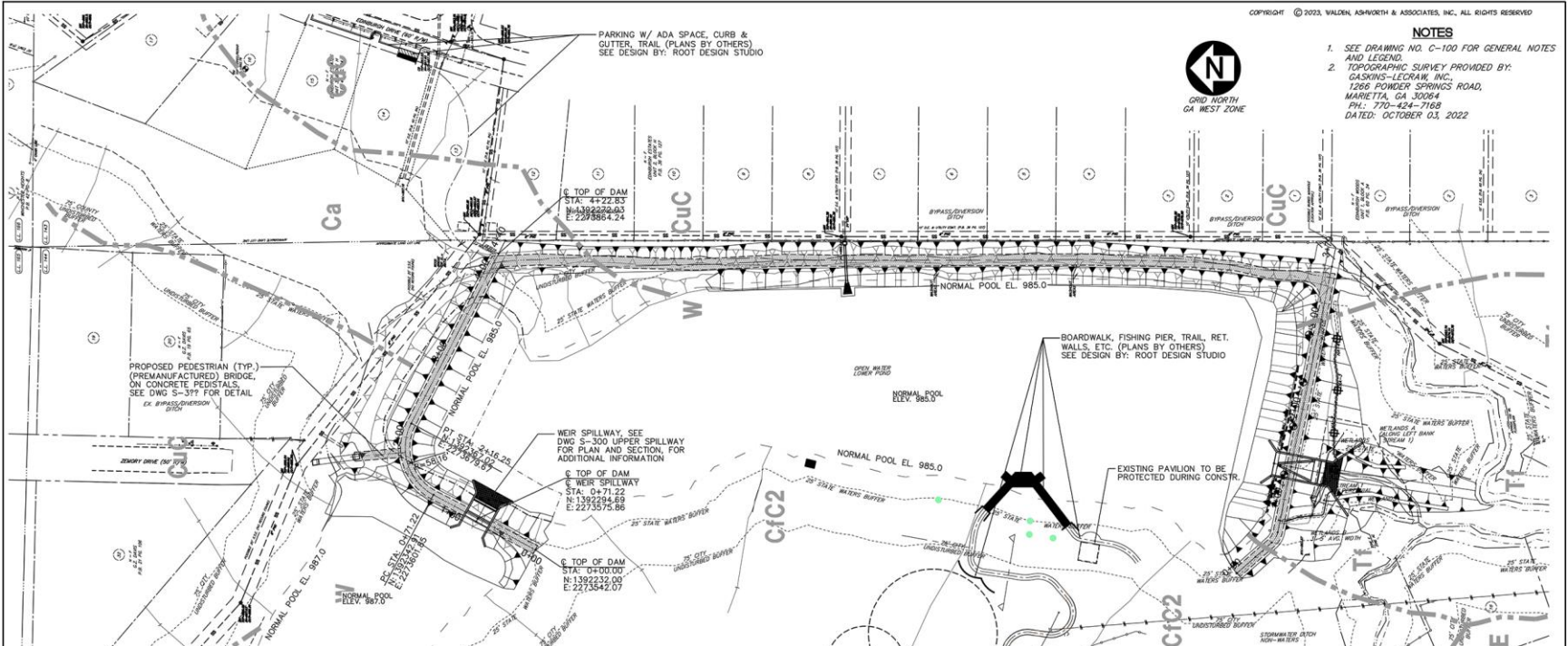


DESIGN & ENGINEERING UPDATE

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NOTES

- SEE DRAWING NO. C-100 FOR GENERAL NOTES AND LEGEND.
- TOPOGRAPHIC SURVEY PROVIDED BY: GASKINS-LECRAN, INC., 1266 FOUNDER SPRINGS ROAD, MARIETTA, GA 30064, PH: 770-424-7168, DATED: OCTOBER 03, 2022



NOTE: THE EXISTING SIDE CHANNEL SPILLWAY IS BEING DIVERTED INTO THE UPPER LAKE AND IN THE PROPOSED CONDITIONS, NO LONGER BYPASSES THE LAKE AND CAUSES EROSION AND CROSS CONTAMINATION COSELY WITH THE SANITARY SEWER SYSTEM AT BANK ALONG AND CROSS.

LOWER DAM		EXISTING	PROPOSED
TOP OF DAM ELEVATION	=	988.0	985.0
NORMAL POOL ELEVATION	=	985.2	985
100 YEAR POOL ELEVATION	=	985.7	986.2
FULL PMP POOL ELEVATION	=	987.2	987.2
SURFACE AREA AT NORMAL POOL	=	4.8 ACRES	4.8 ACRES
STORAGE AT NORMAL POOL	=	25.5 ACRE FEET	24.0 ACRE FEET
SURFACE AREA AT TOP OF DAM	=	13.2 ACRE FEET	18.3 ACRE FEET
STORAGE AT TOP OF DAM	=	0.49 SQ. MILES	0.49 SQ. MILES
DRAINAGE BASIN	=	12 FEET	12 FEET
HEIGHT OF DAM	=	336 FEET	379 FEET
LENGTH OF DAM	=		

UPPER DAM		EXISTING	PROPOSED
TOP OF DAM ELEVATION	=	982.4	982.0
NORMAL POOL ELEVATION	=	980.87	987.0
100 YEAR POOL ELEVATION	=	994.3	989.5
FULL PMP POOL ELEVATION	=	994.3	994.4
SURFACE AREA AT NORMAL POOL	=	1.7 ACRES	2.1 ACRES
STORAGE AT NORMAL POOL	=	10.6 ACRE FEET	8.4 ACRE FEET
SURFACE AREA AT TOP OF DAM	=	5.5 ACRES	4.9 ACRES
STORAGE AT TOP OF DAM	=	8.7 ACRE FEET	7.5 ACRE FEET
DRAINAGE BASIN	=	0.25 SQ. MILES	1.28 SQ. MILES
HEIGHT OF DAM	=	8.4 FEET	8.0 FEET
LENGTH OF DAM	=	500 FEET	430 FEET

LOWER DAM		EXISTING	PROPOSED
STORM FLOW (CFS)	INCOMING	EXISTING	PROPOSED
2 YEAR	25	4	85
5 YEAR	35	5	129
10 YEAR	44	7	171
25 YEAR	58	9	234
50 YEAR	69	11	292
100 YEAR	81	12	354
1 1/4 PMP	783	191	728
FULL PMP	3861	198	3590

UPPER DAM		EXISTING	PROPOSED
STORM FLOW (CFS)	INCOMING	EXISTING	PROPOSED
2 YEAR	45	41	84
5 YEAR	68	62	122
10 YEAR	91	86	175
25 YEAR	128	120	240
50 YEAR	156	148	295
100 YEAR	188	179	355
1 1/4 PMP	300	279	708
FULL PMP	1903	1891	3572

NOTE: INFLOW INCLUDES SIDE CHANNEL SPILLWAY FLOW.

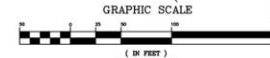
NO.	REVISIONS	DATE	BY	DATE	BY

SCALE	DATE
BUILD: 1"=50'	DATE
DESIGN BY: JR/JH	01/23
DRAWN BY: JH/EC	01/23
CHECKED BY: JR	01/23
CDN: PE# 98767	EXP: 06/30/2024
JASON RAPPAPORT, PE, EOR	303
LEVEL: 2 CERTIFICATION #	38/02/23
EXPIRATION DATE:	

JOHNS HOMESTEAD PARK
DAM RENOVATION
SITE LAYOUT PLAN
CITY OF TUCKER



PRIMARY PERMITTEE
 OWNER:
 THE OWNER PERMITTEE WILL BE THE CONTRACTOR WHOM WILL BE SELECTED AFTER THE PROJECT IS BID. THE OWNER WILL BE ADVISED (AFTER BID) TO SHOW THE PERMITTEE.
 CONTACT PERSON:
 PHONE: (XXX) XXX-XXXX
 EMAIL:
24 HR. CONTACT PERSON
 TO BE DETERMINED AFTER BIDDING.
 CELL (XXX) XXX-XXXX



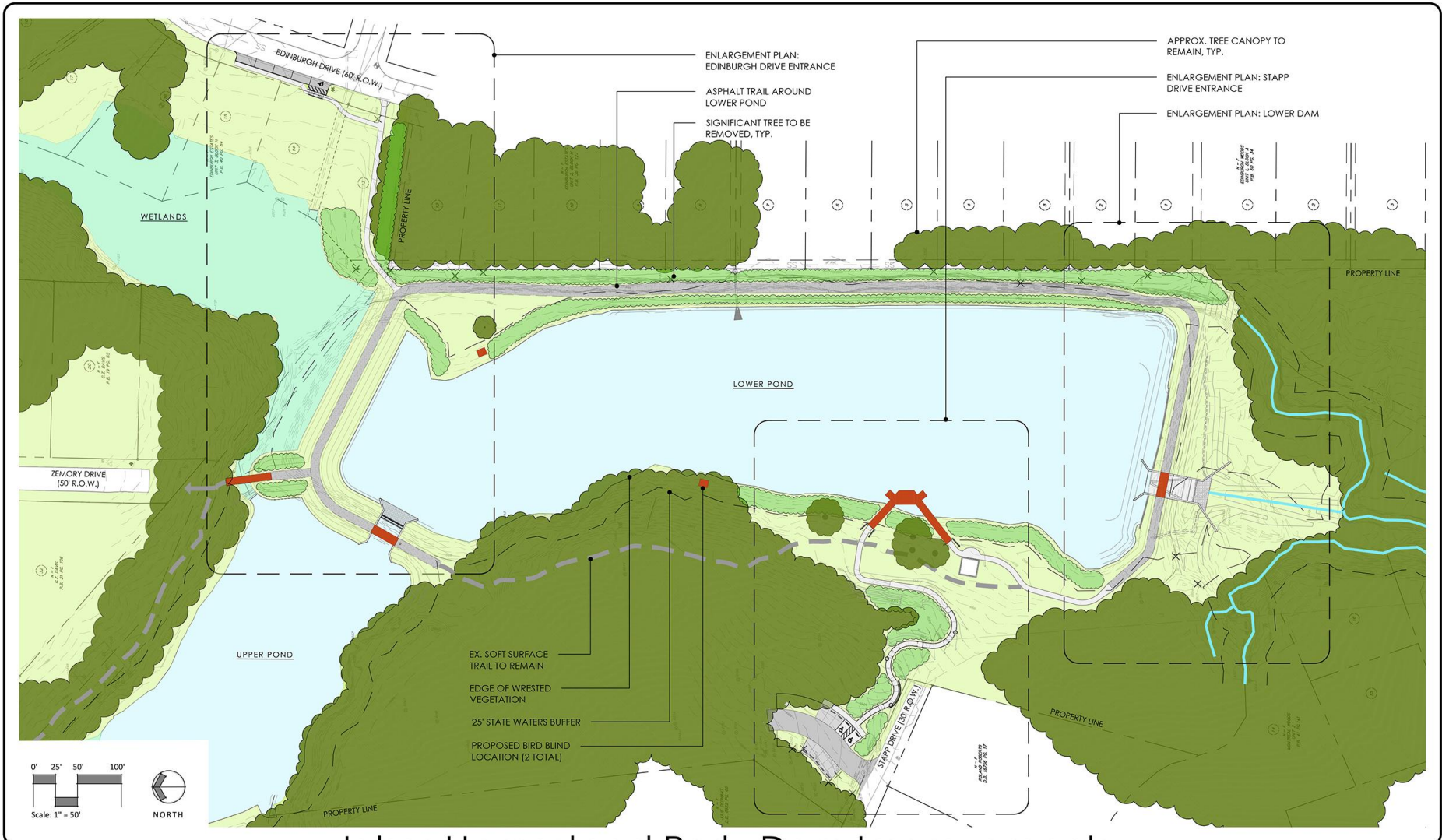
PERMIT DRAWINGS



WALDEN, ASHWORTH & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 P.O. BOX 8488
 MARIETTA, GEORGIA 30068
 (770) 956-7879

420600 **42016- C-106** **0**

Overall Site Plan



PREPARED FOR:

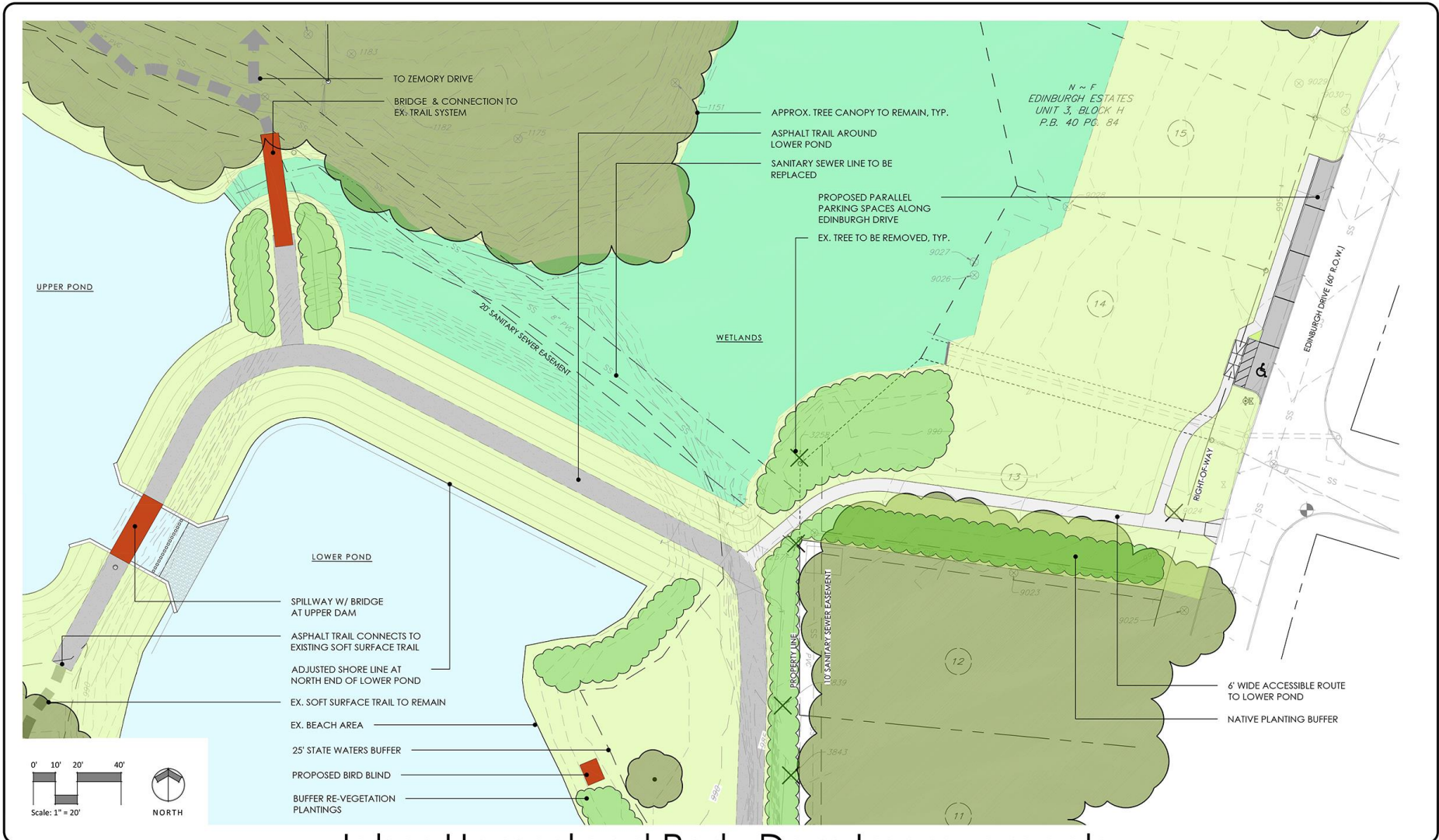
City of Tucker Parks & Recreation
4898 Lavista Road
Tucker, GA 30084

Johns Homestead Park: Dam Improvements Overall Site Plan August, 2023

Disclaimer:
This master plan is for planning purposes only. Existing conditions information was derived from a survey provided by the client, as well as aerial photography from Google Earth and field observations by the landscape architect. This master plan shall not be used for implementation or construction and shall not be used, in part or in whole, for any other project.

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ROOT DESIGN STUDIO
LANDSCAPE ARCHITECTURE
1040 W. 22nd St.
www.RootStudio.com

Upper Dam: Enlargement



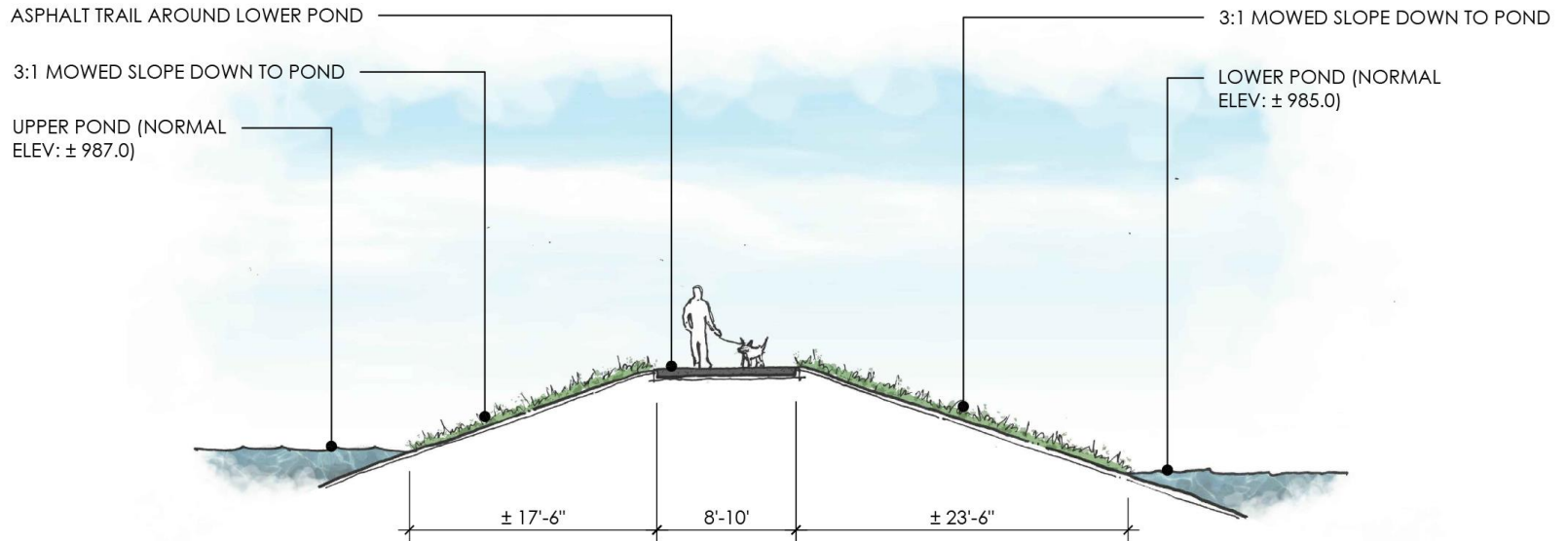
Johns Homestead Park: Dam Improvements Upper Dam - Enlargement Plan August, 2023

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Upper Dam Section



SECTION C: AT UPPER DAM

Johns Homestead Park: Dam Improvements Trail Sections August, 2023

Upper Dam: Spillway Enlargement

UPPER POND

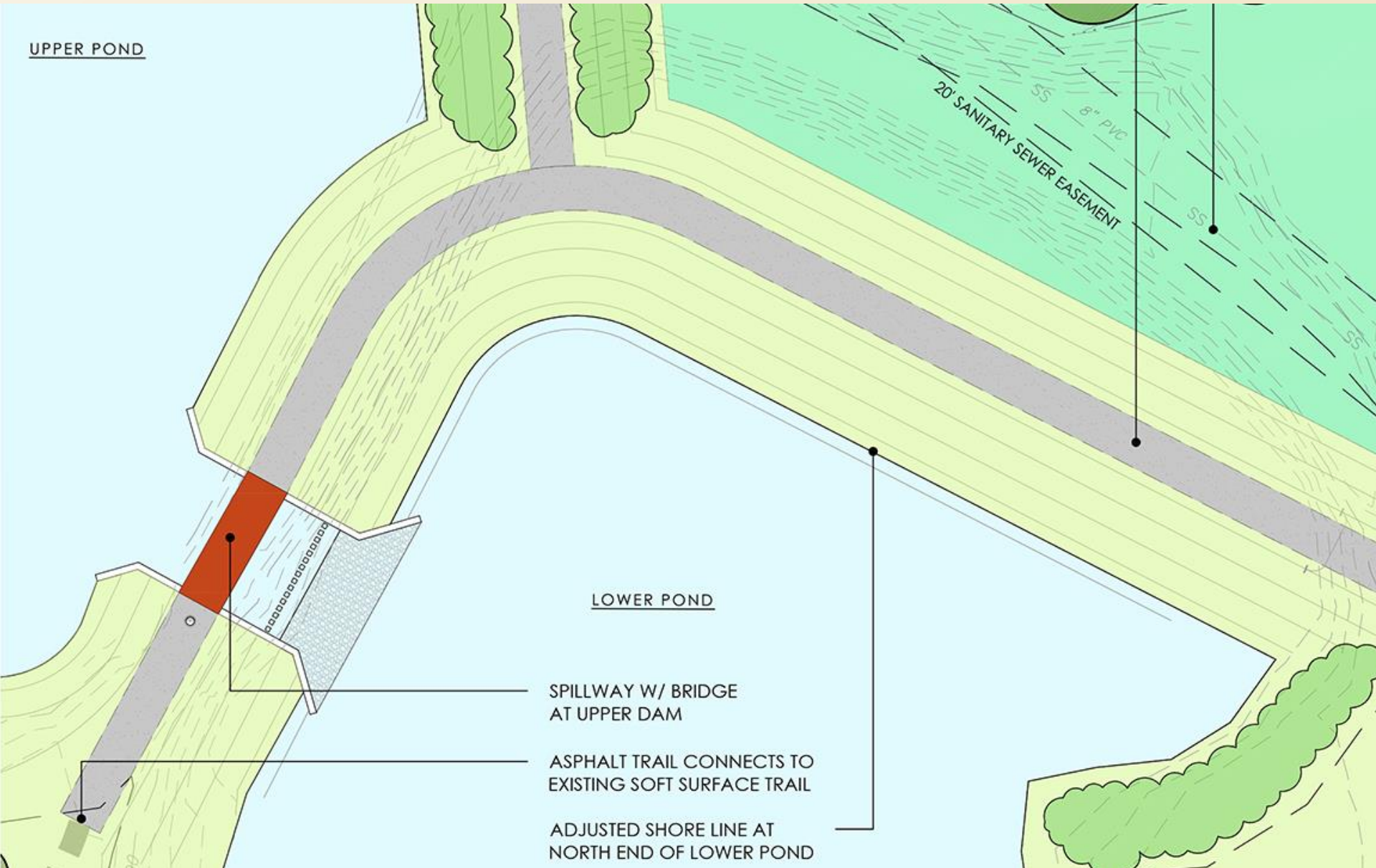
20' SANITARY SEWER EASEMENT
SS 8" PVC
SS

LOWER POND

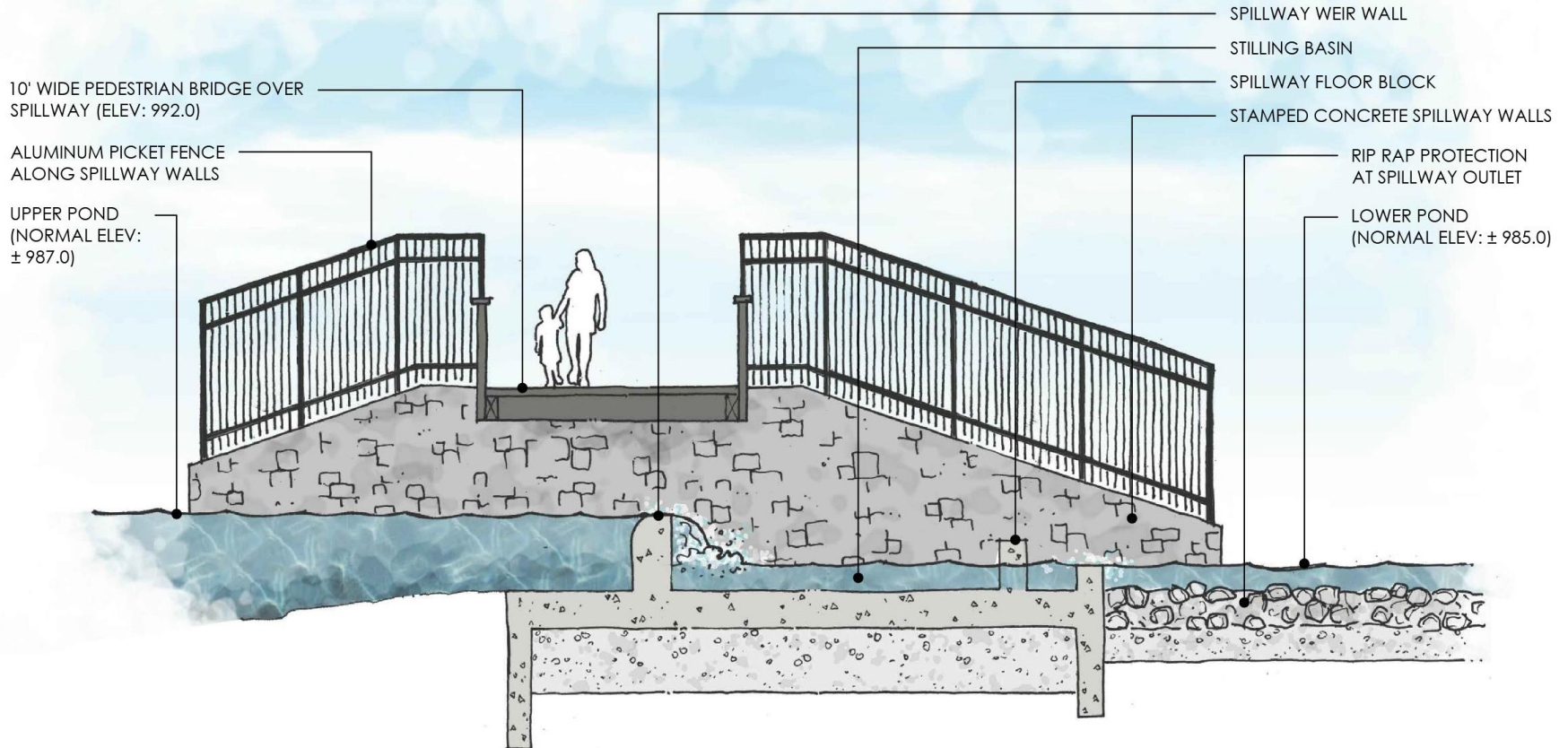
SPILLWAY W/ BRIDGE
AT UPPER DAM

ASPHALT TRAIL CONNECTS TO
EXISTING SOFT SURFACE TRAIL

ADJUSTED SHORE LINE AT
NORTH END OF LOWER POND



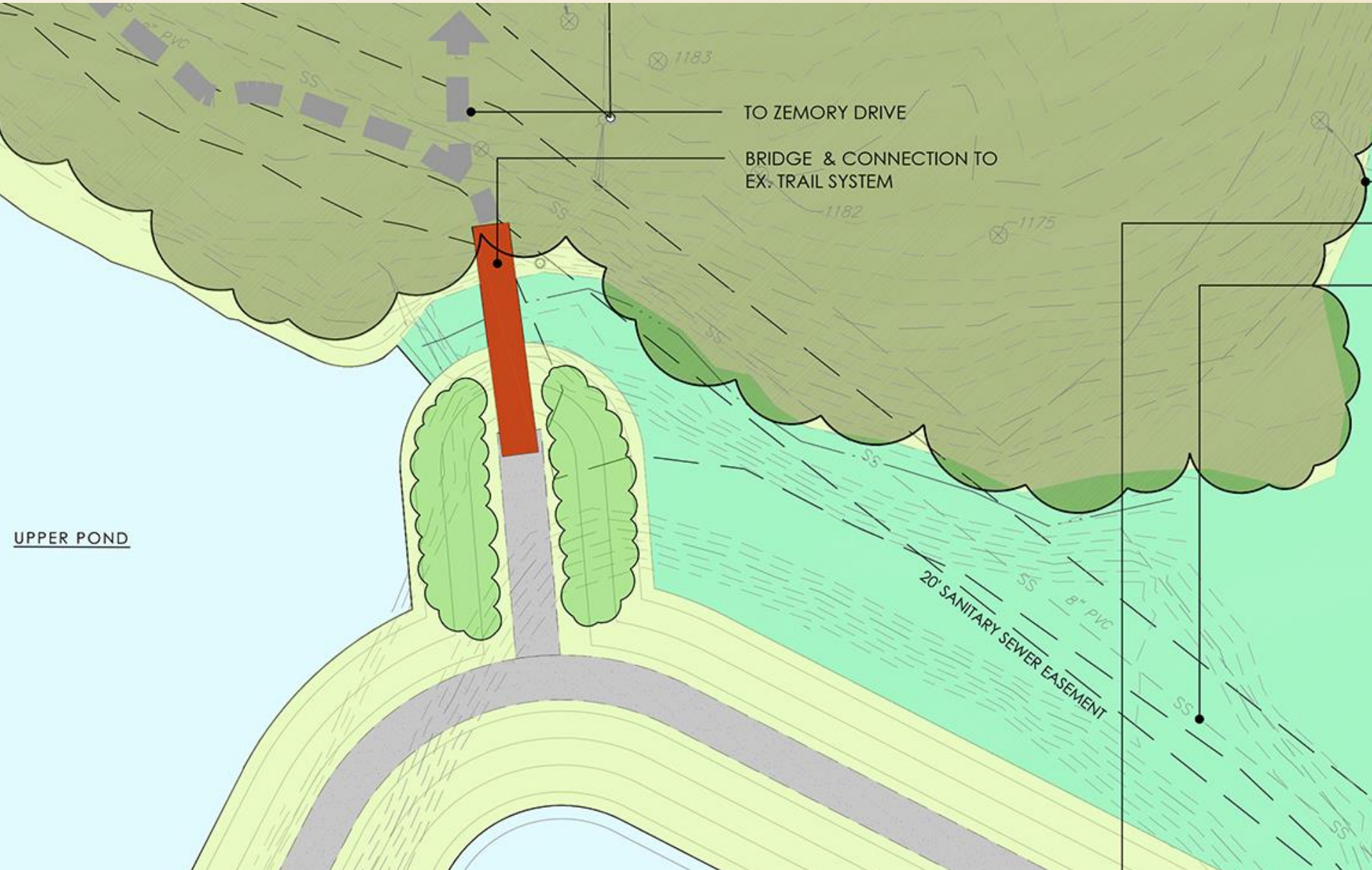
Upper Dam: Spillway Section



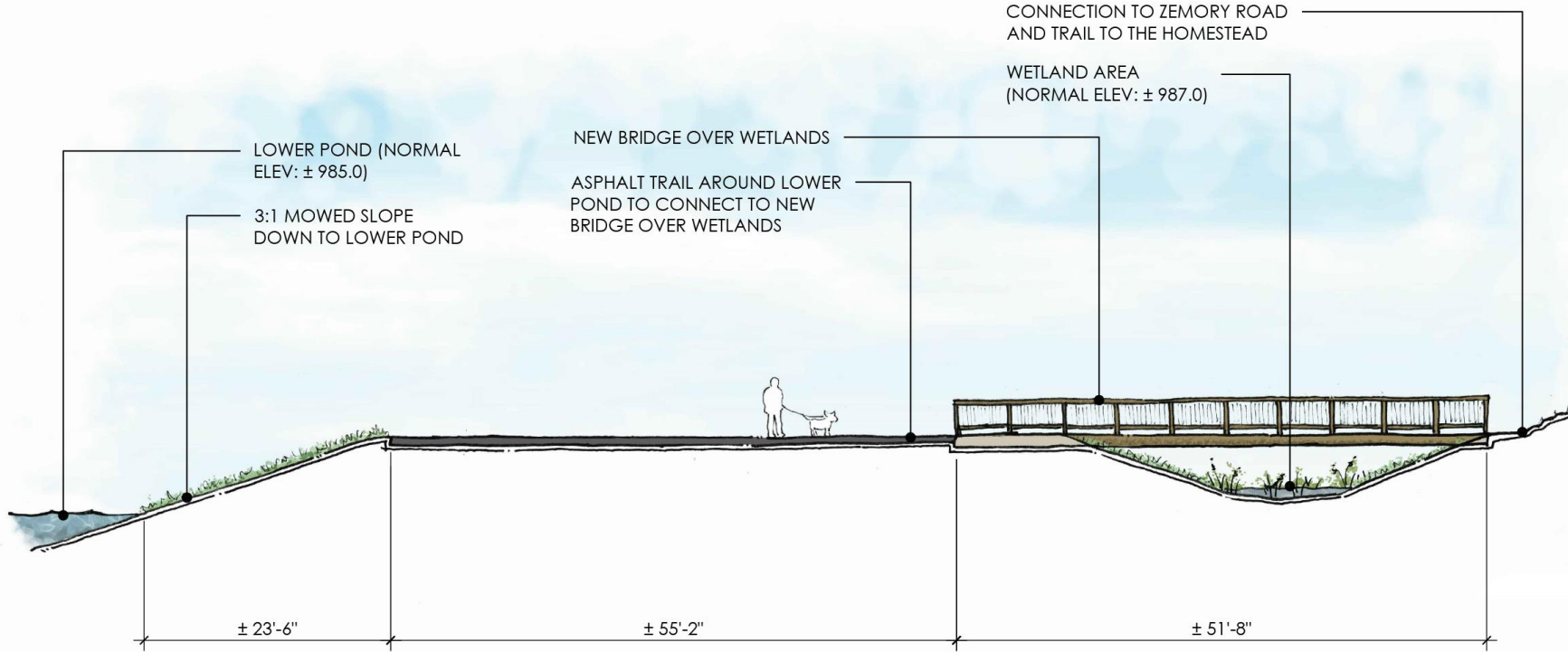
UPPER SPILLWAY

Johns Homestead Park: Dam Improvements Spillway Sections August, 2023

Zemory Connection: Enlargement



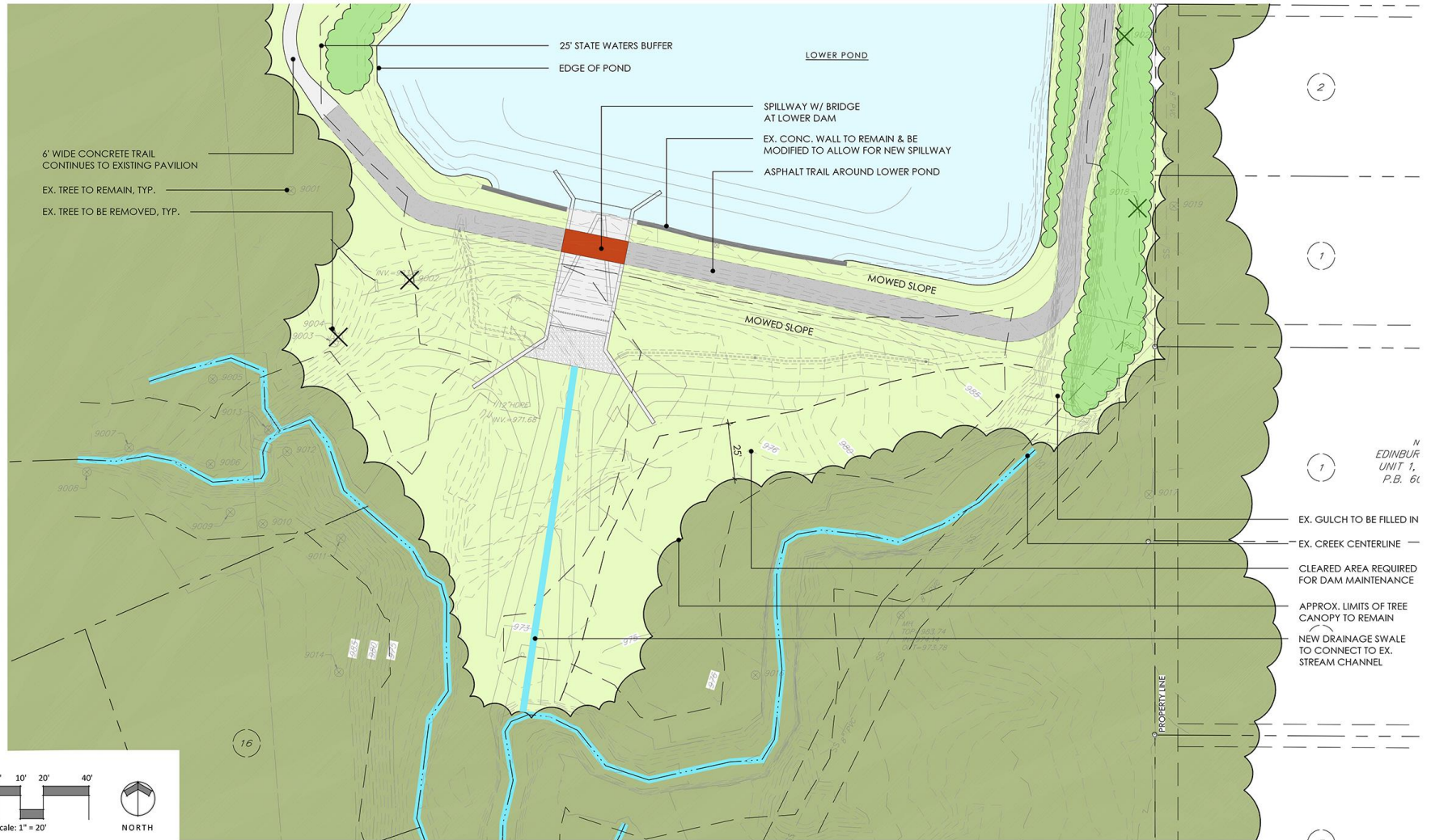
Zemory Bridge: Section



SECTION E: AT BRIDGE CONNECTION TO ZEMORY DRIVE

Johns Homestead Park: Dam Improvements Trail Sections August, 2023

Lower Dam: Enlargement



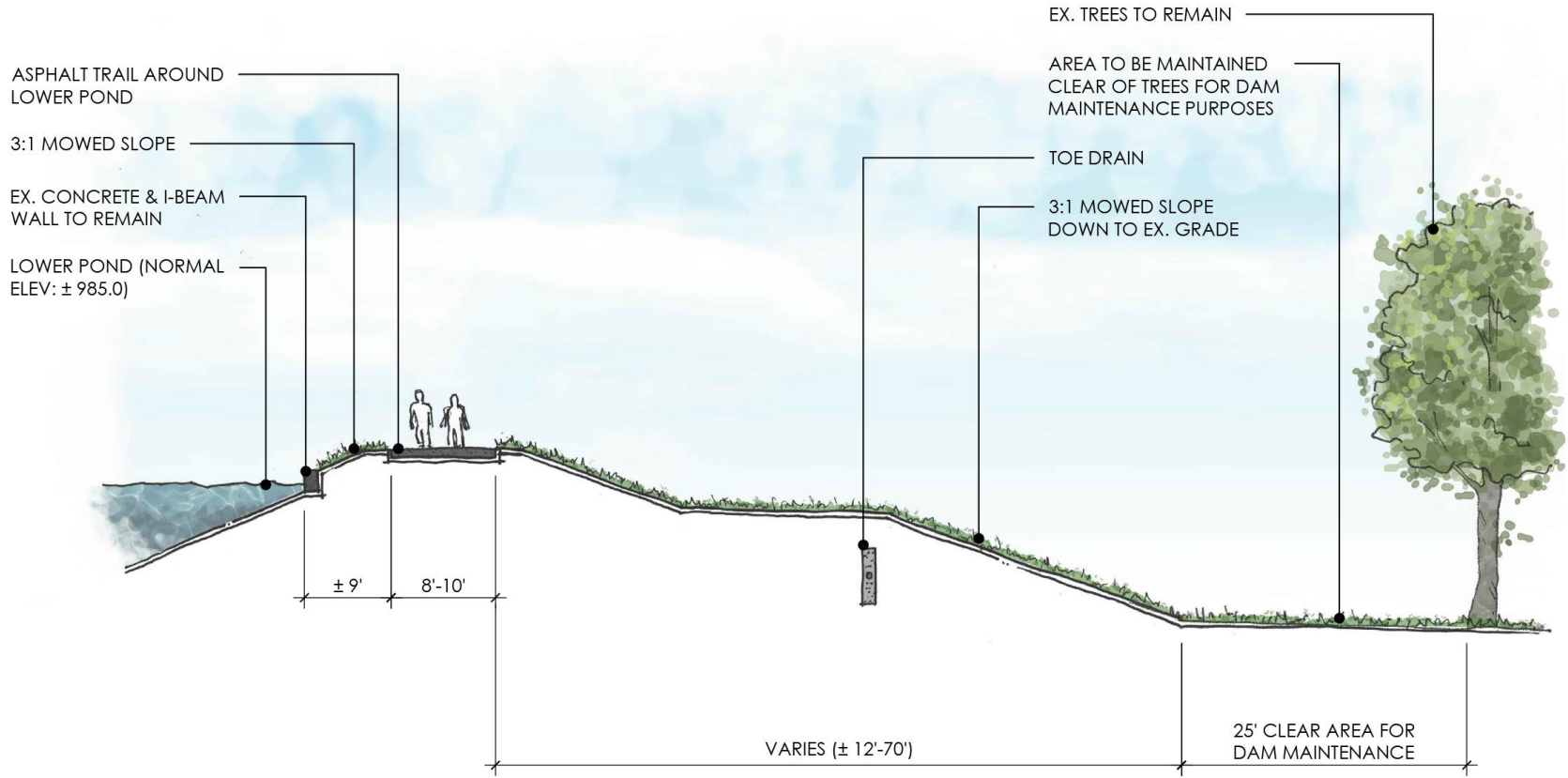
Johns Homestead Park: Dam Improvements Lower Dam - Enlargement Plan August, 2023

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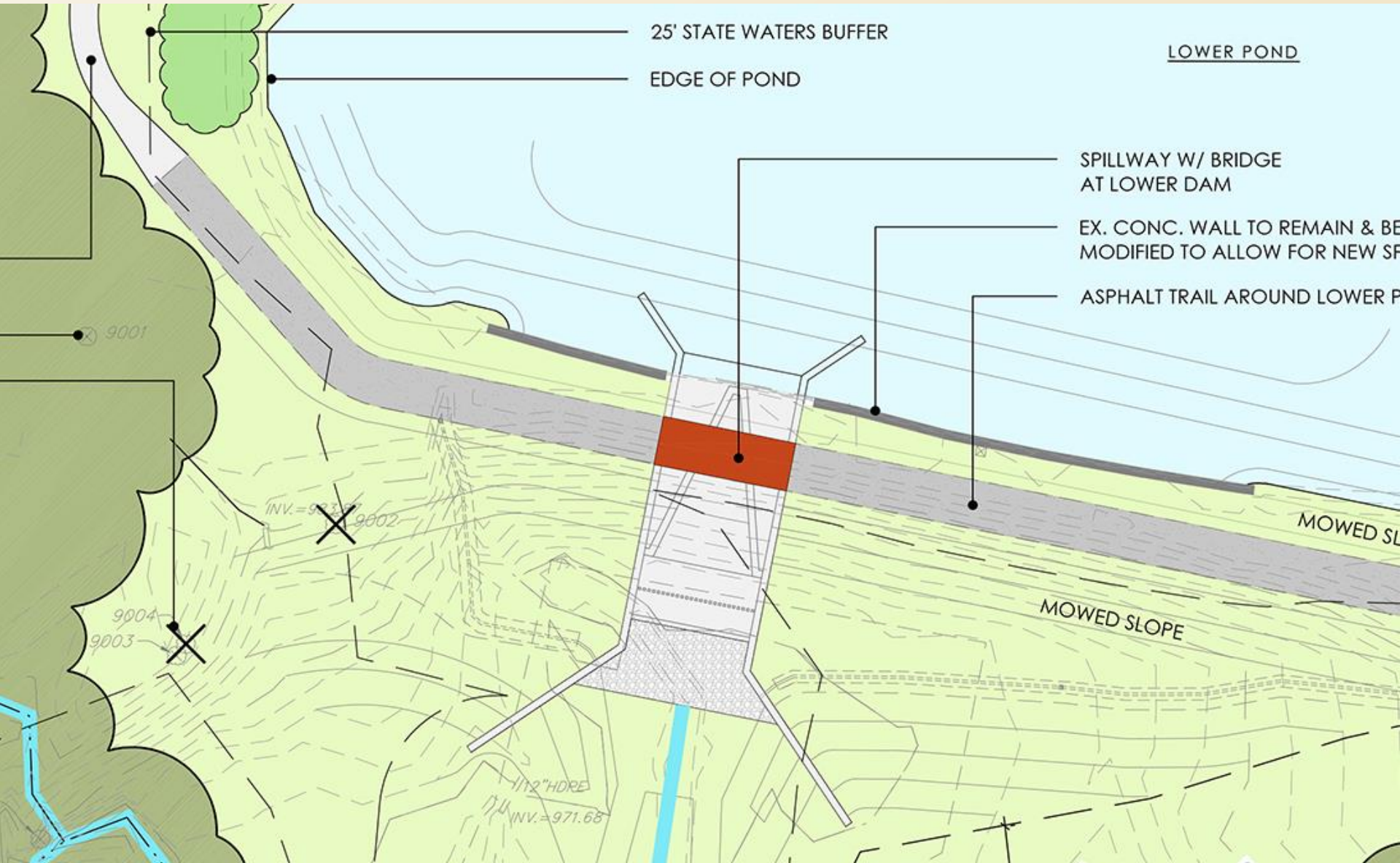
Lower Dam: Enlargement



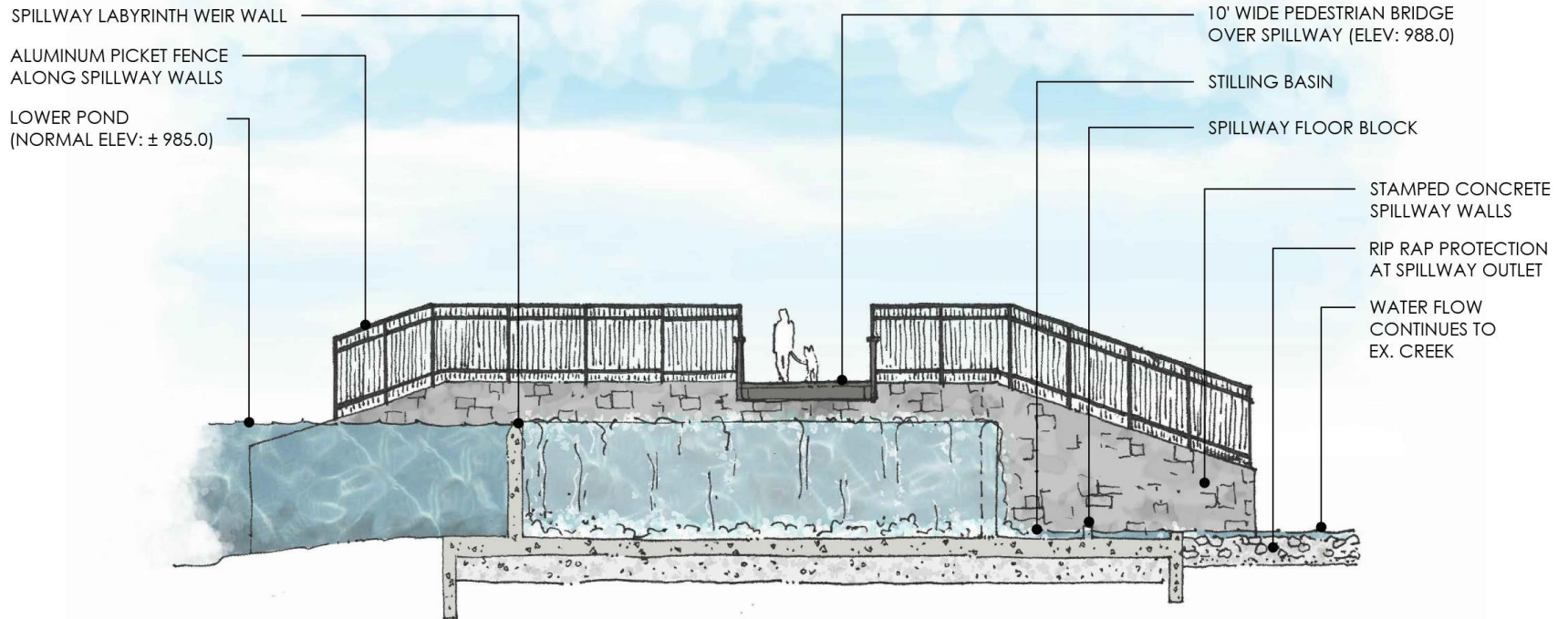
SECTION D: AT LOWER DAM

Johns Homestead Park: Dam Improvements Trail Sections August, 2023

Lower Dam: Spillway Enlargement



Lower Dam: Spillway Section



LOWER SPILLWAY

Johns Homestead Park: Dam Improvements Spillway Sections August, 2023

East Bank Trail



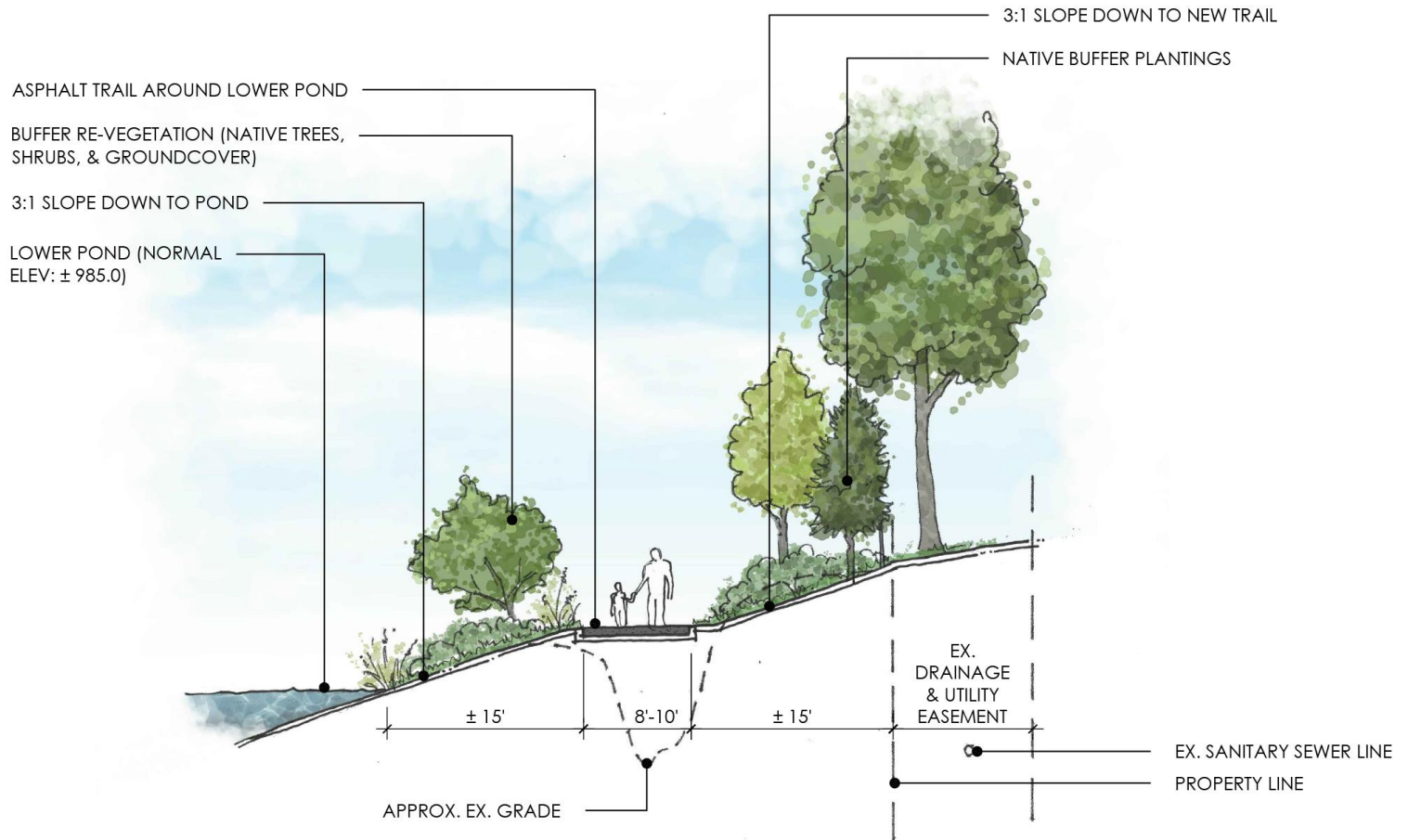
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Johns Homestead Park: Dam Improvements Overall Site Plan August, 2023

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East Bank Trail Section



SECTION B: AT EAST BANK OF LOWER POND

Stapp Drive



Johns Homestead Park: Dam Improvements

Stapp Drive Entrance - Enlargement Plan

August, 2023

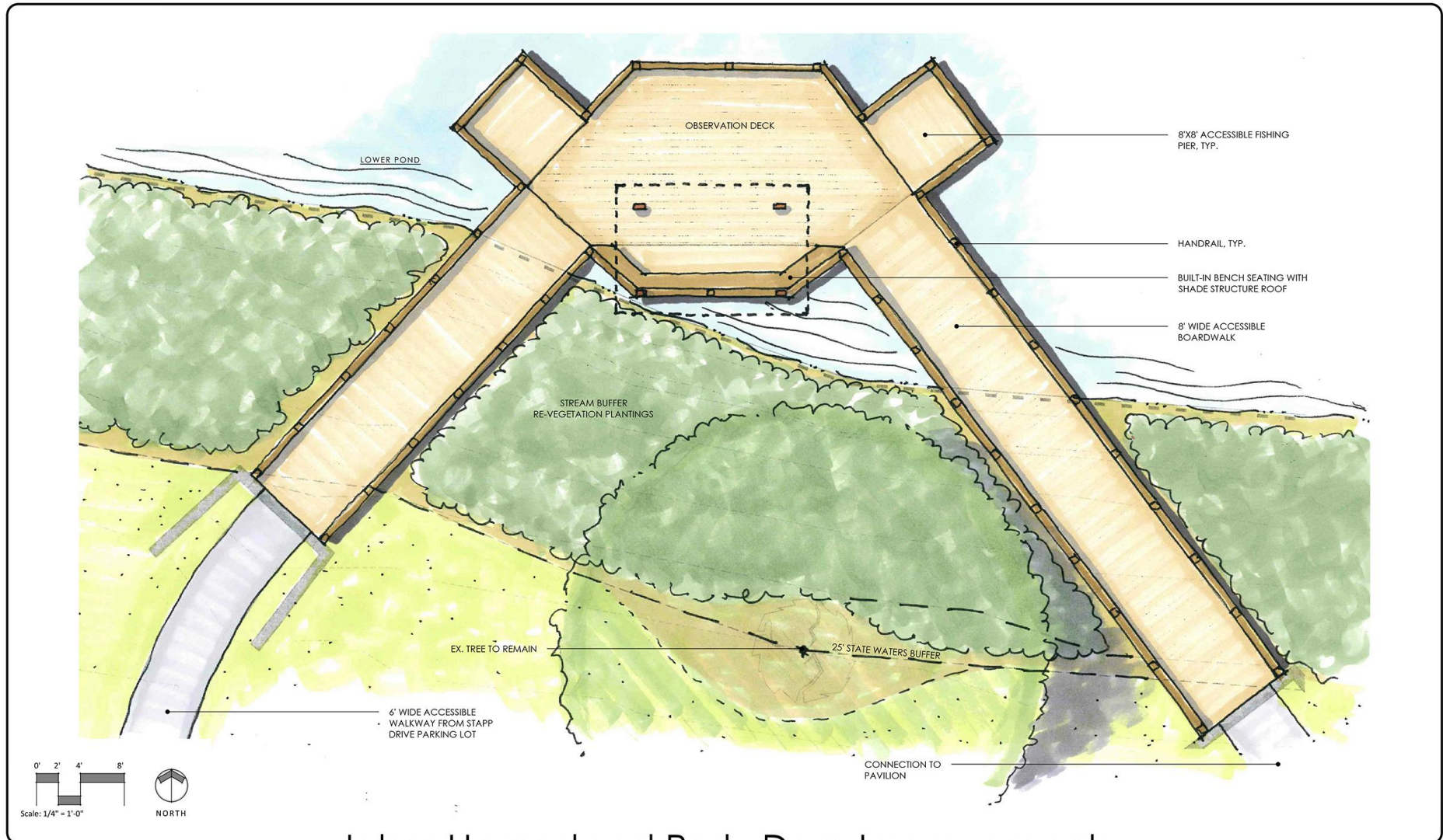
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Accessible Fishing Pier: Enlargement



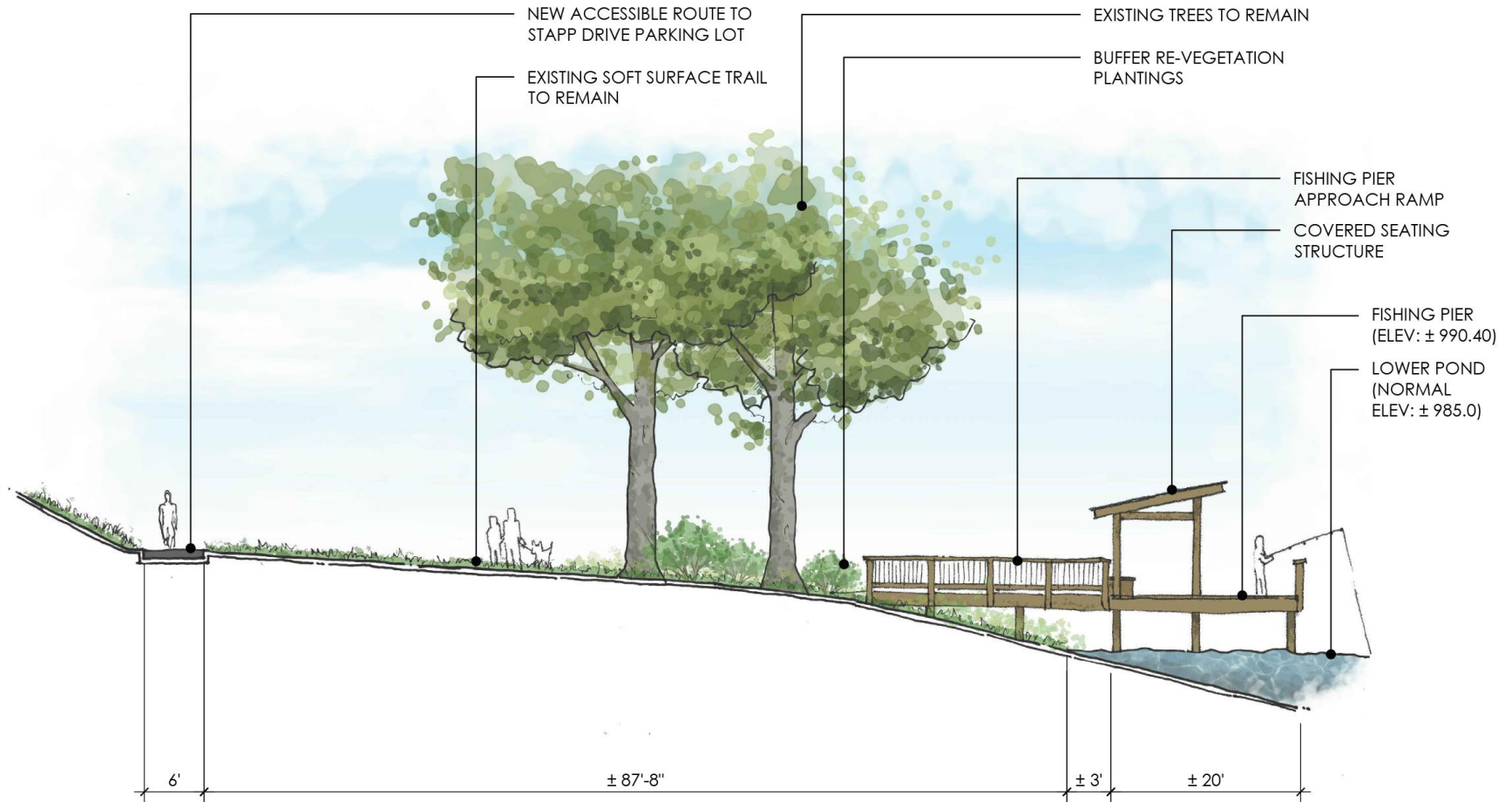
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Johns Homestead Park: Dam Improvements
Accessible Fishing Pier - Enlargement Plan
August, 2023

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Accessible Fishing Pier Section



SECTION A: AT FISHING PIER

Johns Homestead Park: Dam Improvements Trail Sections August, 2023

Pavilion: Enlargement



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Johns Homestead Park: Dam Improvements Pavilion Enhancements - Enlargement Plan August, 2023

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Additional Park Improvements



Bird Blinds



Signage
(Images of Vacker signage)



Orienteering



Trail Kiosks

SCHEDULE UPDATE

PROJECT TASK

TIMEFRAME

(2023)

Permitting Submittals

Army Corps

Aug./Sept.

GA EPD Stream Buffer

Aug./Sept.

Land Disturbance Permit

Oct.

Dam Permit

Oct.

Final Construction Documents

Mid-Nov.

Bidding

Nov.-Dec.

(2024)

Award / Construction Contract

Jan.

Begin Construction

Feb./Mar.

ENGAGEMENT OPPORTUNITIES



GNPS cooperative
Plant rescues
(Sept/Oct)



Invasive Plant
Removal



Fishing Rodeo
(Saturday, Oct 21)



Volunteer
Workdays



Questions?

