E-6/1-PRESENTATION

3300 BLUE JAY LANE

Application for a Variance to LDC 25-2-1176(A)(1) and (A)(4)(b)

Dock extension greater than 30 ft. from the Lake Austin shoreline

Dock width exceeding 14’ for a shoreline length less than 70’

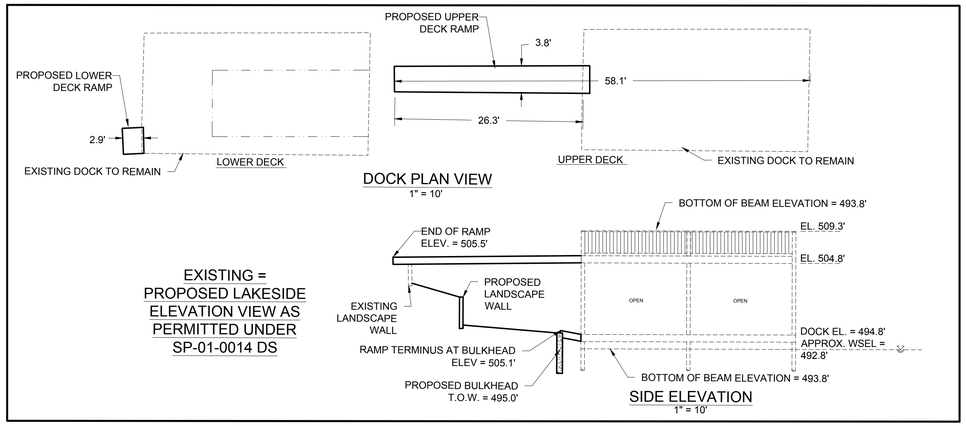
Case no. C15-2022-0013

Applicant: Janis J. Smith, P.E.

E-6/2-PRESENTATION

3300 & 3302 BLUE JAY LANE

NOTE:
THE PROPOSED BOAT DOCK MUST COMPLY WITH ALL REQUIREMENTS OF LDC 25-2-1174 ("STRUCTURAL REQUIREMENTS"), AND MUST COMPLY WITH CHAPTER 25-12, ARTICLE 1 (UNIFORM BUILDING CODE) AND THE BUILDING CRITERIA MANUAL.

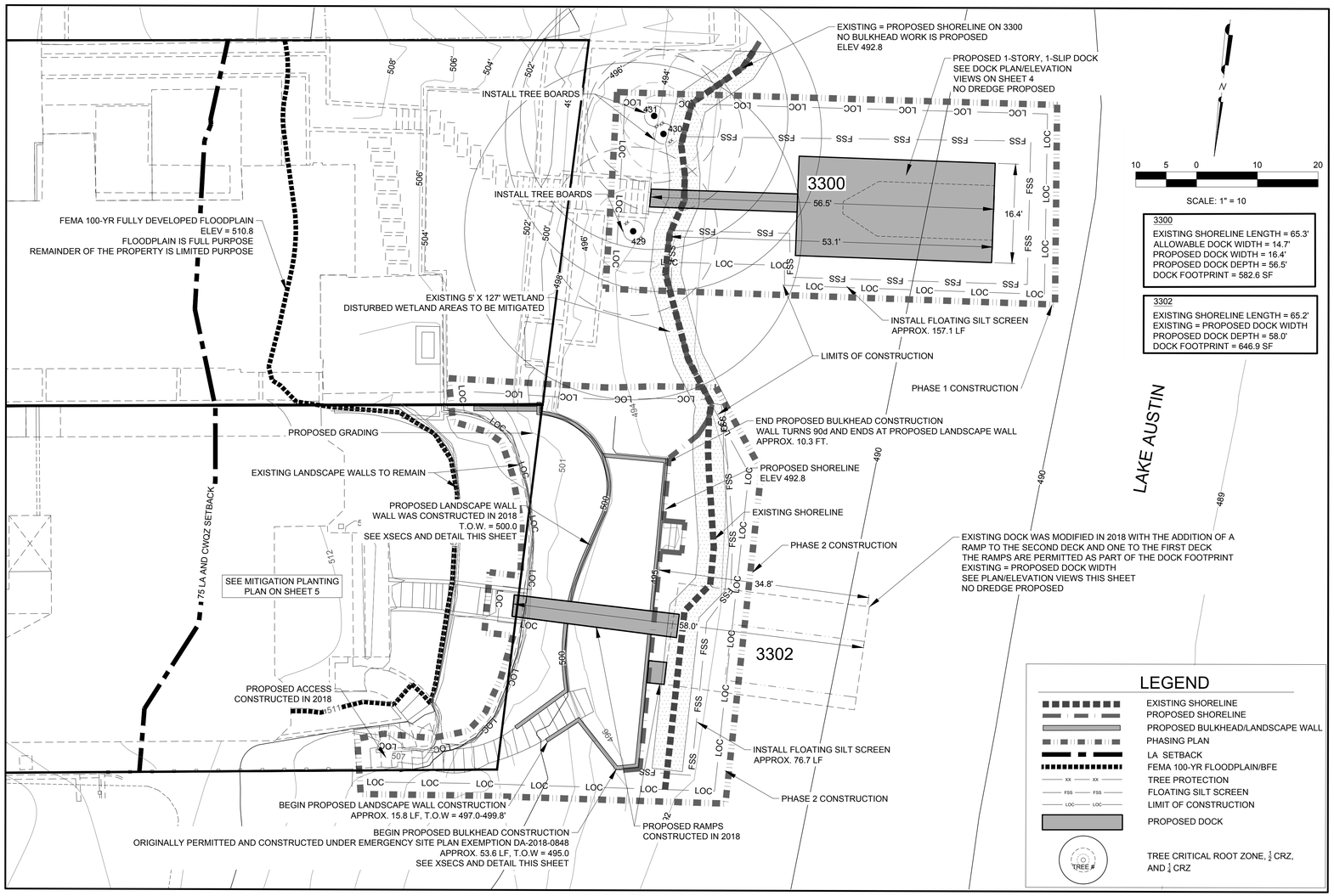


PROPOSED CONDITIONS PLAN/ELEVATION VIEWS OF THE DOCK AT 3302 BLUE JAY LANE

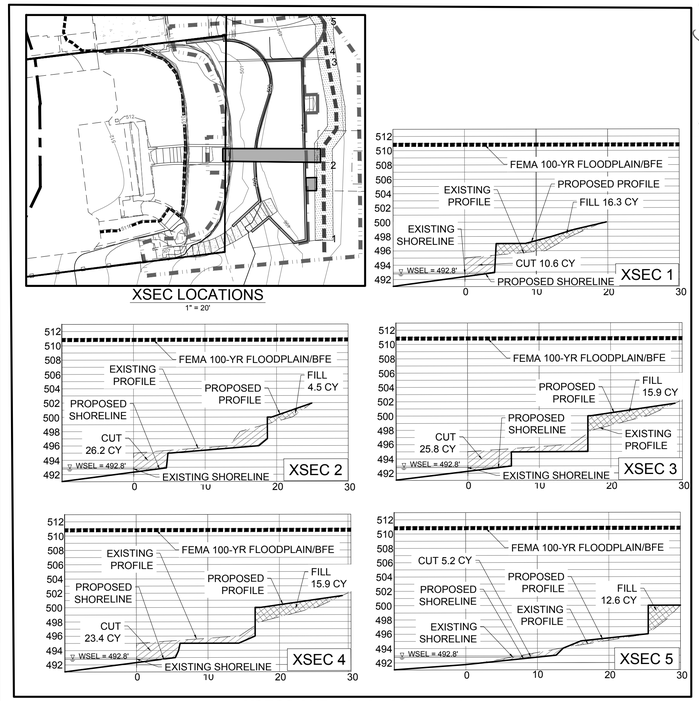
3300 AND 3302 CUT/FILL QUANTITIES IN THE FLOODPLAIN

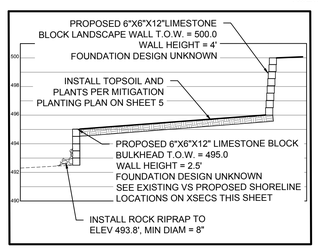
XSEC NO.	XSEC STA	FILL (SF)	AVG FILL (SF)	CUT (SF)	AVG CUT (SF)	DISTANCE (FT)	VOLUME FILL (CY)	VOLUME CUT (CY)
0	0.0	0		0.0				
			8.2		5.3	1.0	0.3	0.2
1	1.0	16.3		10.6				
			10.4		18.4	23.1	8.9	15.7
2	24.1	4.5		26.2				
			10.2		26.0	28.3	10.7	27.3
3	52.4	15.9		25.8				
			16.0		24.6	0.4	0.2	0.4
4	52.8	16.0		23.4				
			16.0		14.3	8.2	4.8	4.3
5	61.0	15.9		5.2				
			8.0		2.6	1.0	0.3	0.1
6	62.0	0.0		0.0				
						TOTAL CUT/FILL (CY)	25.3	48.0
						NET CUT IN THE FLOODPLAIN = 22.7 CY		

CUT/FILL IN THE FLOODPLAIN



PROPOSED CONDITIONS





LANDSCAPE WALL AND BULKEAD DETAIL

NOTES:

1. ALL WORK SHALL OCCUR WITHIN THE LIMITS OF CONSTRUCTION AS SHOWN ON THE PLAN. ALL MATERIALS WILL BE TRANSPORTED TO THE SITE FROM WATER. ALL CONSTRUCTION ACTIVITY, INCLUDING STAGING AND SPOIL STORAGE, WILL BE COMPLETED BY WATER.
2. SHORELINE IMPROVEMENTS, INCLUDING GANGWAY ACCESS, ARE AUTHORIZED WITH THIS SITE PLAN.
3. CONTAINERS OF HAZARDOUS MATERIALS, FUEL, OIL, HERBICIDES, INSECTICIDES, FERTILIZERS, OR OTHER POLLUTANTS WILL NOT BE STORED ON DOCKS EXTENDING INTO OR ABOVE LAKE AUSTIN.
4. FOR LA ZONING, PERMANENT IMPROVEMENTS ARE PROHIBITED WITHIN THE SHORELINE SETBACK AREA, EXCEPT FOR RETAINING WALLS, PIERS, WHARVES, BOATHOUSES, MARINAS, OR A DRIVE TO ACCESS THE STRUCTURES [LDC 25-2-551 (B)(2)].
5. NO WATER OR WASTEWATER UTILITIES ARE PROPOSED WITH THIS DEVELOPMENT.
6. DOCK SHALL BE AT LEAST 66% OPEN.
7. PILINGS SHALL BE 6-5/8" DIAMETER STEEL PIPE.
8. THE PROJECT SITE IS WITHIN THE CITY OF AUSTIN LIMITED PURPOSE BOUNDARIES.

ATTENTION INSPECTOR NOTES:

1. COMPLIANCE WITH BUILDING CODE REQUIRED AND IS TO BE REVIEWED FOR COMPLIANCE DURING BUILDING CODE REVIEW.
2. FOR THE BUILDING PERMIT, A SIGNED AND SEALED LETTER SHALL BE SUBMITTED TO THE CITY OF AUSTIN, PER THE LAND DEVELOPMENT CODE, 25-12-3 1612.4, CERTIFYING THAT THE STRUCTURE IS IN ACCORDANCE WITH ASCE 24, FLOOD RESISTANT DESIGN AND CONSTRUCTION.
3. ENVIRONMENTAL INSPECTOR HAS THE AUTHORITY TO ADD AND/OR MODIFY EROSION/SEDIMENTATION CONTROLS ON SITE TO KEEP PROJECT IN COMPLIANCE WITH THE CITY OF AUSTIN RULES AND REGULATIONS.

NO.	DATE	REVISION	APPVD

STATE OF TEXAS · JANIS J. SMITH · 110314 · LICENSED PROFESSIONAL ENGINEER · 11/19/2021

Janis Smith Consulting, LLC
1505 Westover Road • Austin, Texas 78703 • 512-914-3729
Texas Board of Professional Engineers Registration Number F- 16978

3300 & 3302 BLUE JAY LANE
PROPOSED CONDITIONS SITE PLAN

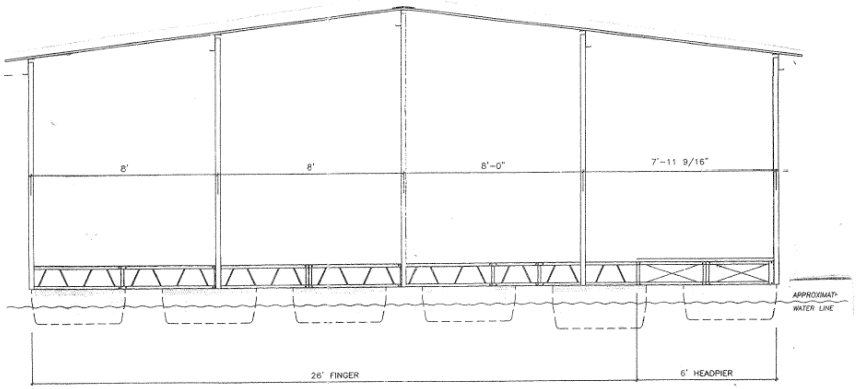
DESIGNED: JJS
APPROVED:
SCALE: AS SHOWN
3300 & 3302 BLUE JAY LANE
DATE: JULY 25, 2021
SHEET 3 of 6
3

3300 & 3302 BLUE JAY LANE – SP-2021-0279D

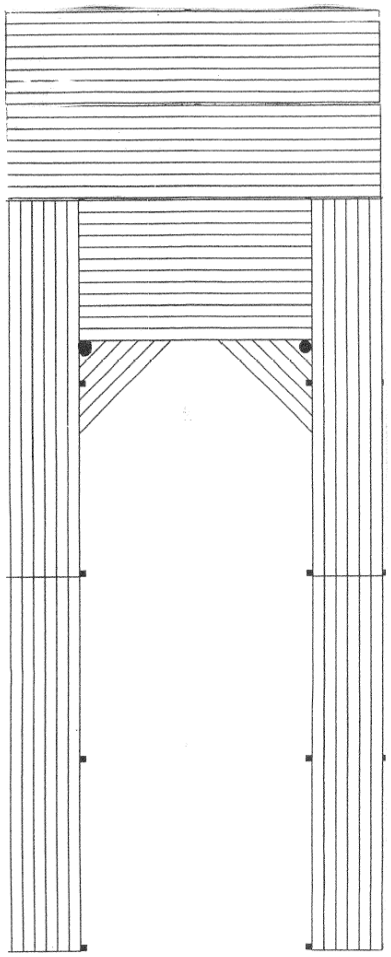
SP-2021-0279D

E-6/4-PRESENTATION

2002 PERMITTED DOCK PLAN/ELEVATION VIEWS
VS. 2021 DOCK PLAN/ELEVATION VIEWS



2002 PERMITTED SIDE ELEVATION



2002 PERMITTED BOAT DOCK DECK

2021 BOAT DOCK DECK

2021 SIDE ELEVATION

E-6/5-PRESENTATION

Drainage Construction - JAY BAKER 974-2636

DATE: 8/26/02

Acceptance or approval of this application does not constitute a verification of all data, information and calculations supplied by the applicant. The engineer of record is solely responsible for the completeness, accuracy and adequacy of his/her submittal, whether or not the application is reviewed for Code compliance by City engineers.

DC 1. CLEARED

Signoff: 8/26/02

Environmental - JOHN MCDONALD 974-2294

Comments EV 1 through EV 7 and EV 10 have been cleared.

EV 8: The proposed dock's width exceeds 20% of the entire lake frontage and will need a waiver from the Parks & Recreation Departments Navigation Board. Please contact Randy Scott (974-6737) for scheduling purposes. **This comment can be cleared after review by the Navigation Board.**

EV 9: The proposed dock appears to extend greater than 30' from the shoreline from the "Side Elevation" on the plans, which will require a waiver from the Parks & Recreation Department's Navigation Board. Please contact Randy Scott (974-6737) for scheduling purposes. **This comment can be cleared after review by the Navigation Board.**

FYI: Be prepared to get this plan sealed by either a professional architect or engineer before the building permit can be ascertained. A Professional Architect or Engineer's seal is not required for the site development permit, however, it will most likely be required for the building permit.

THIS SITE PLAN CANNOT BE APPROVED UNTIL IT IS PRESENTED AND APPROVED FOR WAIVERS FROM THE PARKS & RECREATION BOARD. PLEASE CONTACT RANDY SCOTT (974-6737) FOR SCHEDULING PROCEDURES.

FLOATING DOCK LOCATION PRIOR TO RECONSTRUCTION

FIXED DOCK LOCATION CONSTRUCTED IN 2017

PHOTO OF ROCK LAKEBED

E-6/8-PRESENTATION

City of Austin
WATERSHED PROTECTION

A Review of Lake Austin Sediment Quality, 1987-2009

Mary Gilroy and Martha Turner
Environmental Resource Management, Watershed Protection Department
City of Austin

SR-10-14. September 2010

Conclusions

The following conclusions were derived from the analyses of Lake Austin sediment data:

- Spatially, concentrations of parameters generally increased with downstream location, as the most downstream site, Tom Miller had the significantly highest mean for most parameters showing spatial differences. This is to be expected, as there is increasing, and more long-established, residential development towards the downstream end of the lake. In addition, sediment (and associated contaminants) is transported downstream during high flow events and deposited in deeper, slower waternear the dam, so the most downstream site becomes the repository for contaminants.

- The upper sites, Selma Hughes and Emma Long, were not significantly different from each other, and always had means well below the other two more downstream sites. This could be in part due to their location in the upper, less developed portion of the watershed, but also a function of the sediment characteristics. Both these sites were dominated by sand, with very little clay or silt, providing little substrate for contaminant adherence. In addition, the upper end of the watershed typically experiencesmore scouring flows during flood events, as extremely high velocity water moves in from the upstreamdam, and less sediment was available at these sites during many sampling events.