



## Aupperle Company

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Texas Board of Professional Engineers Registration Number F-1994

### Agenda Request Transmittal

Parks & Recreation:

☐ Navigation Committee

☒ Board

**From:** Bruce Aupperle, P.E.

**Date:** 9-Jul-10

**To:** Parks & Recreation Department, Chris Yanez

**Delivery:** Email

**Re:** 2700 Edgewater Drive, SP-2010-0082D, Chelstrom Dock & Bulkhead

**Pages:**

By this transmittal we hereby request that the referenced project be placed on the next available agenda for ☒ approval.  
☐ discussion.

**Project Type:**

- ☒ Single-Family Dock  
☐ Commercial Marina  
☒ Shoreline Modification  
☐ Silt Removal  
☐ Other

**Owner:** Nathan & Farrah Chelstrom.

**Applicant:** Nathan & Farrah Chelstrom.

**Site Address:** 2700 Edgewater Drive

**Site Plan Case Number:** SP-2010- 0082D

**Variance Requested:**

- ☒ Exceed 20% Shoreline Width  
☐ Exceed 30' Depth Into Lake  
☐ Encroach Into 10' Sideyard Setback  
☐ Exceed 20% of Channel Width

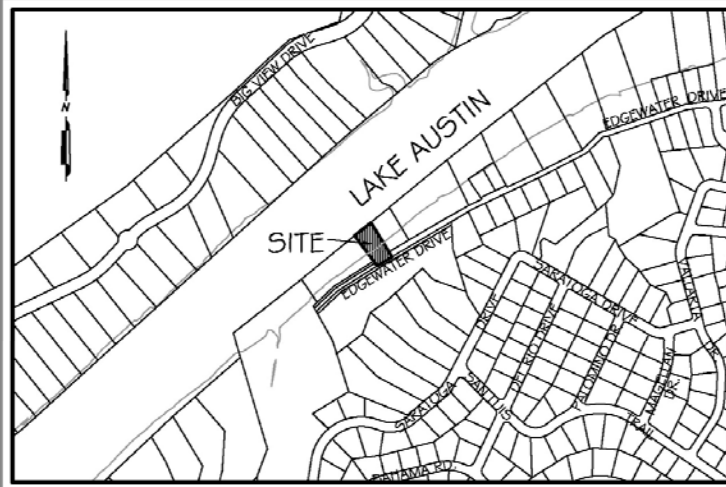
**Description of Project and Variance Request:**

This application is for a dock on the main body of Lake Austin at 2700 Edgewater. Please note that since the City has rejected the valid permits previously obtained by the applicant for the existing bulkhead, the bulkhead is also included in this application. A history and explanation of the valid permits previously obtained from the City for the bulkhead is also included. The dock has been downsized and rotated parallel to the shoreline and now requires a variances to exceed 20% of the shoreline width. The proposed dock will be within 30 feet of the original bulkhead.

**Attachments:**

- ☒ Site Plan  
☒ Location Map  
☐ Plat  
☒ Other Documents: Photos, etc.

# 2700 Edgewater Drive



## Failed Bulkhead – Feb. 2007



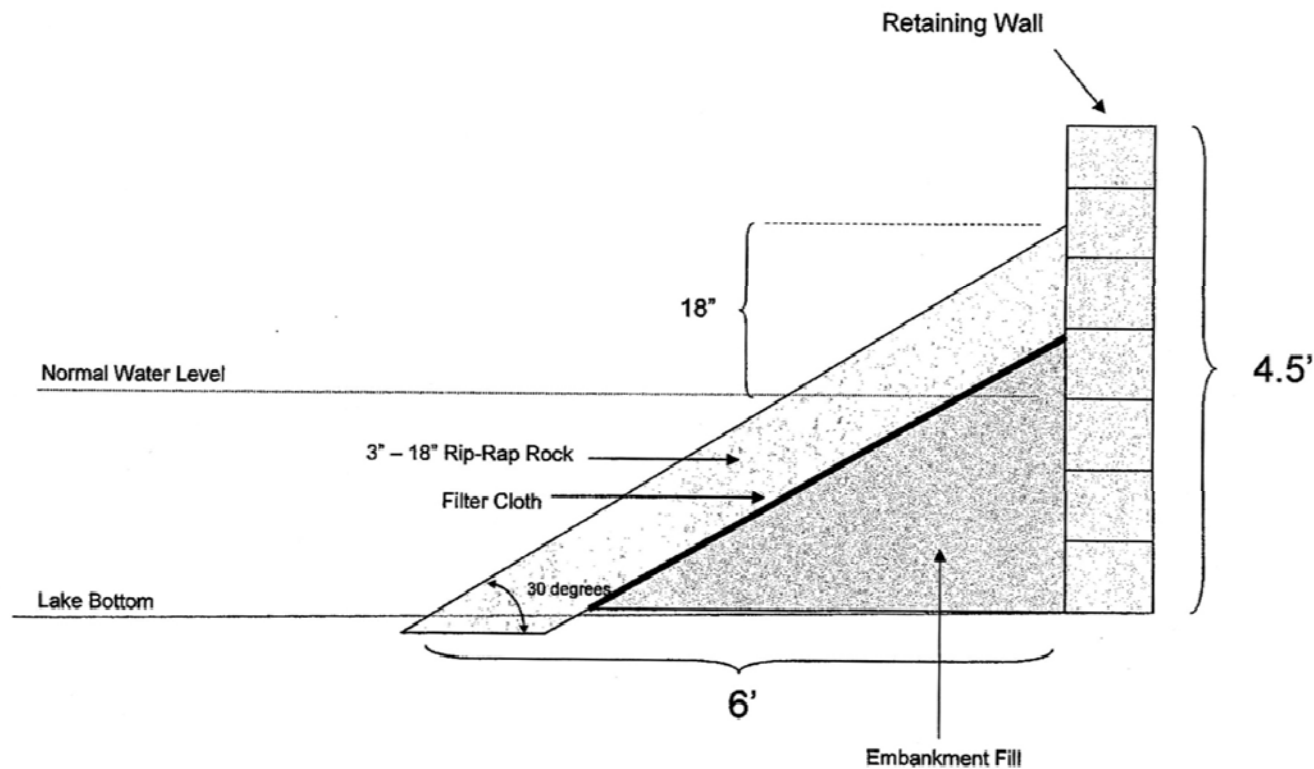
## Failed Bulkhead – Feb. 2007



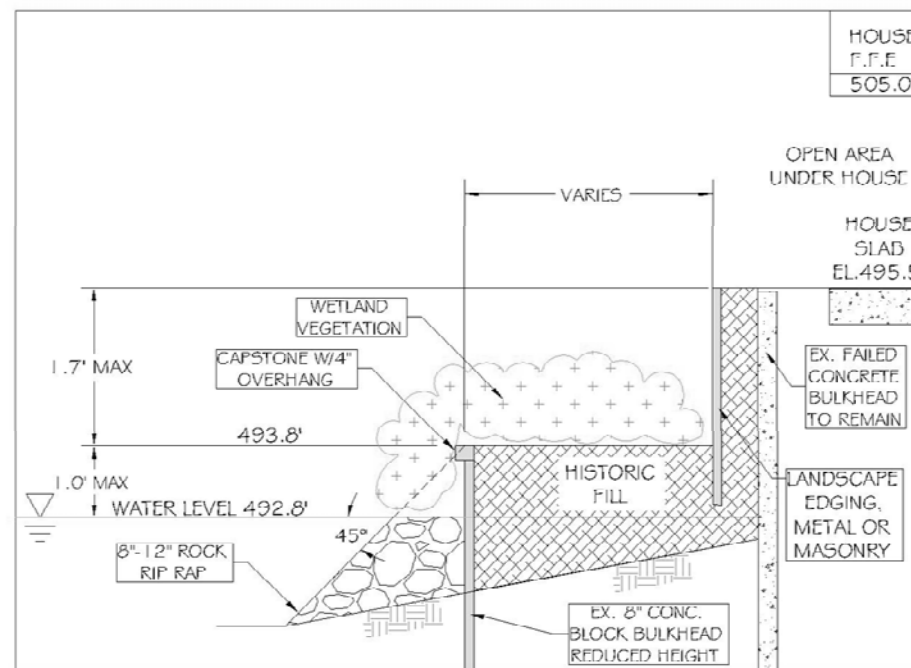
# Current Bulkhead



# Current Bulkhead Cross Section



# Modified Bulkhead Cross Section



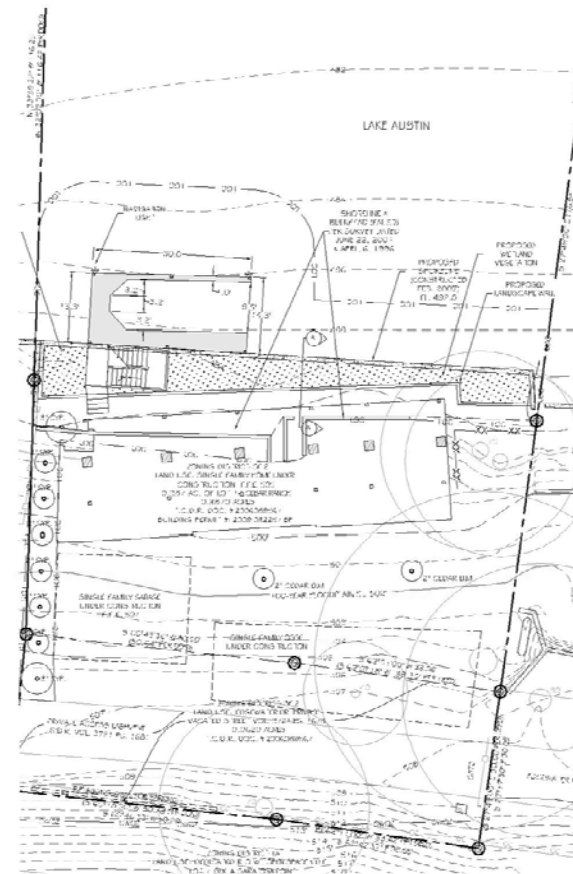
# Proposed Site Layout

Reclaimed Area = 1,081 S.F.

Shoreline Width = 96' +/-

Corps of Engineers Fill Volume  
Below 492.8' = 40.0 C.Y.  
or 0.41 C.Y. per L.F.

City of Austin Fill Volume  
Below 496.0' = 127.7 C.Y.  
Avg. Depth of Fill = 3.2'  
Max. Depth of Fill = 3.7'

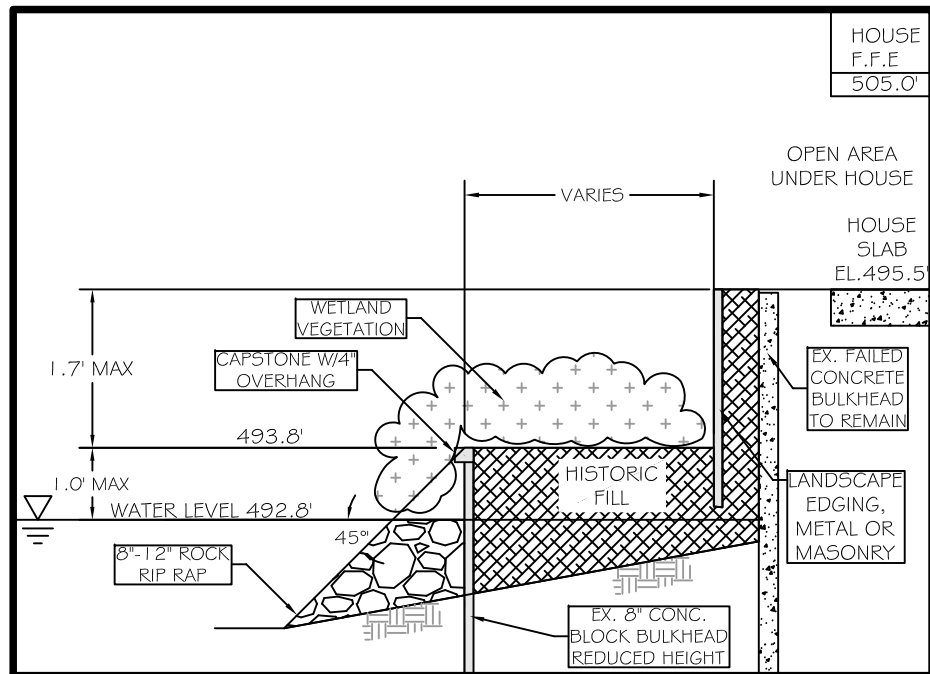


[illegible]

responsibility for the adequacy of these plans remain with the engineer who prepared them. In approving these plans, the City of Chicago must rely upon the adequacy of the work of the design engineer.

1. A DOCK MUST BE CONTINUOUSLY LIGHTED WITH AMBER LIGHTS BETWEEN SUNSET AND SUNRISE EACH DAY.
2. A DOCK MUST HAVE AT LEAST TWO LIGHT STATIONS. THE LIGHT STATIONS MUST BE LOCATED ON THE END OF THE DOCK AND ON THE SIDE THAT IS FARTHEST FROM AND PARALLEL TO THE SHORELINE. THE LIGHT MUST BE VISIBLE TO A PROPERLY APPROACHING WATERCRAFT.
3. NAVIGATION LIGHTS MUST HAVE A TWO-BULB FIXTURE, WITH TWO WORKING LIGHT BULBS RATED BETWEEN 7-1/2 AND 25 WATTS INCLUSIVE. LIGHT BULBS OR BULB COVERS MUST BE AMBER AND WHITE LIGHT MUST NOT RADIATE FROM THE FIXTURE. WEATHERPROOF LAMP HOLDERS AND JUNCTION BOXES ARE REQUIRED. EACH LIGHT FIXTURE MUST BE WIRED WITH A SWITCH OPERATED BY A PHOTOELECTRIC CELL SO THAT THE LIGHTS WILL OPERATE AUTOMATICALLY DURING THE HOURS THAT THE DOCK IS REQUIRED TO BE LIGHTED.

— 905 — EXISTING GRADING CONTOUR  
 ———— PROPERTY LINE  
 — LOC — LIMITS OF CONSTRUCTION  
 — S/LOC — SILT FENCE & LOC  
 — OE — OVERHEAD ELECTRIC  
 — XX — XX — TREE FENCE PROTECTION  
 — CWQZ — CRITICAL WATER QUALITY ZONE  
 ———— ZONING DISTRICTS  
 (125) PER APRIL 6, 1996 SURVEY



Bulkhead Section A-A  
NTS

**AUPPERLE COMPANY**  
Engineering, Planning & Development Services  
2219 Westlake Drive #10, Austin, Texas 78746 512 329-8241

22700 EDGEWATER DRIVE

SITE PLAN

DESIGNED: DMM
APPROVED:
SCALE:
2700 EDGEWATER DRIVE
DATE: FEBRUARY 17, 2009
SHEET: 2 OF 2