

April 25, 2013

Mr. Barry Adkins, P.E.
DaRam Engineers, Inc.
5420 Dashwood Drive, Suite 206
Houston, TX 77081

RE: Project No. 2023778
Conveyance & Hydraulic Analysis for 5651 T.C. Jester Blvd.
Houston, Texas
HCFCD Unit E100-00-00; Key Map 451D; Pct 1

Dear Mr. Adkins:

The Flood Control District has reviewed the submitted report pursuant to the HCFCD Policy, Criteria, and Procedure Manual. This review addresses issues regarding hydraulic and hydrologic drainage design criteria only. Design criteria regarding the site layout of the proposed development and drainage facilities will be reviewed upon submittal of site plans.

Our understanding of the report is described below. Please address the comments contained within the "Hydrologic and Hydraulic Review" heading and resubmit the report.

Objective

The submitted report has been reviewed pursuant to the HCFCD Policy, Criteria, and Procedure Manual and Section 3.02 of the "Regulations of Harris County, Texas for the Approval and Acceptance of Infrastructure." The goals of the review are to provide technical support to the Harris County Floodplain Administrator and to apply HCFCD policy and criteria where appropriate.

This review addresses issues regarding hydraulic and hydrologic drainage design criteria only. Design criteria regarding the site layout of the proposed development and drainage facilities will be reviewed upon submittal of site plans.

Submitted Report

Conveyance & Hydraulic Analysis
Harris County Flood Control
Unit E100-00-00
White Oak Bayou Watershed
Proposed Drainage Conditions Report
To Support a project at
5651 TC Jester Blvd
April 15, 2013

Consulting Engineer

The Report was prepared by:

DaRam Engineers, Inc.
5420 Dashwood Drive, Suite 206
Houston, TX 77081
Barry Adkins, P.E.
TX P.E.# 66391

Project Type

The purpose of this drainage impact study is to present a conveyance and hydraulic analysis with sufficient detail that will support the "No Rise/No Impact" certification for the proposed 5.2 acre commercial site development near the E100-00-00 watershed located along TC Jester and W. Tidwell with respect to conveyance of flood waters and the water surface elevation. The objective of this project is to raise the portion of the property that is not in regulatory floodway above the base flood elevation, and design proper mitigations plans for future construction.

**Floodplain
Information**

The report indicates that the project is located within the FEMA regulatory flood plain and floodway of watershed E100-00-00.

HCFCFCD Jurisdiction

The proposed site development is located within a watershed with a Regional Detention Program authorized by Commissioners Court. Therefore, HCFCFCD criteria will apply.

Report's Findings

The report states, "It can be summed up as the proposed project will cause no adverse impact to the conveyance of flood water, nor any adverse impact to the receiving streams for storm events up to and including the 1% chance exceedance probability."

**Hydrologic and
Hydraulic Modeling
Review**

The report includes statements that the project will cause no adverse impact to the receiving waterways in storm events up to and including the 100-year event. The documentation within the report generally supports the conclusions stated by the engineer. Based on the stated conclusions, HCFCFCD interposes no objection to the referenced report. Please note, this acceptance does not necessarily mean that the entire report, including all supporting data and calculations, has been completely checked and verified. However, the report is signed, dated, and sealed by a Professional Engineer licensed to practice in the State of Texas, which therefore conveys the licensed engineer's responsibility and accountability.

**Additional HCFCD
Criteria**

Site plans must be submitted to HCFCD for review and signature.

All work proposed within existing and future HCFCD right-of-way must be designed and constructed in accordance with the HCFCD Policy, Criteria, and Procedure Manual.

A geotechnical slope stability report must be submitted to HCFCD prior to plan approval for new or modified channels or detention basins intended to be maintained by HCFCD. Specific geotechnical criteria are presented in the HCFCD Policy, Criteria, and Procedure Manual.

**Environmental
Review & Permitting**

The Harris County Flood Control District's Environmental Department requires that the U.S. Army Corps of Engineers be contacted to determine if a permit is required for any portions of this project located within any existing or proposed HCFCD right-of-way. The type of permit required (if any) must be stated on the site plans. Actual copies of approved Corps of Engineers permits necessary for work within HCFCD rights-of-way must be submitted with the HCFCD permit application and be given to the HCFCD Property Management Department at least 48 hours prior to construction.

Please also note that the City of Houston is the Floodplain Administrator for the receiving waterways. All issues regarding local floodplain regulations must be coordinated through the City of Houston.

Thank you for coordinating this project with the Flood Control District. If you have any questions regarding the technical comments, please contact Mr. Alem Gebriel, Ph.D., P.E., at 713-684-4000.

Sincerely,



Gary Bezemek, PE
Watershed Management Department

GWB:crf

cc: Ms. Jamila Johnson, P.E., City of Houston