

DAMMON ENGINEERING, INC.

dammonengineering.com

CONSULTING

DESIGN

STUDIES

EXPERT WITNESS

554 Old Spanish Trail
Slidell, LA 70458

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March 12, 2012

To: Jay Pittman, E.I.
St. Tammany Parish
Department of Engineering
21490 Koop Dr.
Mandeville, LA 70471

REF: Living the Word International Church
2528 Old Spanish Trail
Slidell, LA

Dear Mr. Pittman,

Here are the cut and fill calculations for this site. The crossed hatch area on the dwg represents a no work area. The shaded hatch area in the front represents the relocated pond. The non shaded areas in the parking area and swale area represent where cuts will be made to achieve new elevations. We have also lowered the parking areas by 6" and the swales to help increase the amount of fill that is being removed from the site.

Fill below B.F.E. for church pad= 1850 yd³

Cut below B.F.E. for the parking area = $(35000\text{ft}^2)(0.7\text{ft})/27 = 907 \text{ yd}^3$

Cut below the B.F.E. for the drainage swale $(5394 \text{ ft}^2)(1.3\text{ft})/27 = 259 \text{ yd}^3$

Cut below the B.F.E. for the relocated detention pond $(5920 \text{ ft}^2)(7.9\text{ft}/2)/27 = 867 \text{ yd}^3$

Total cuts = 2033 yd³

Total fill = 1850 yd³

SUM = 183 yd³ extra being removed from Site

The existing crushed limestone on the Site shall be used as the base material for the concrete paving. There shall be no additional fill required for the concrete paved vehicular areas.

The existing pond shall be reworked to allow the new parking area elevations and meet the minimum required cuts needed to achieve "No net Fill" for the Site.. The pond shall maintain its current load capacity. The relocated pond will be used for water storage although the new parking lot will retain its water prior to being released as designed.

Sincerely,
Emmett G. Dammon

