

**THIS SHEET IS FOR DRAINAGE AREA PURPOSES ONLY.
DO NOT USE THIS PLAN FOR CONSTRUCTION.**

FOR EXISTING CONDITIONS ALL ONSITE AREAS HAVE BEEN CLASSIFIED AS GRASS. OFFSITE AREAS TO ONSITE HAVE BEEN DEPICTED AS THEIR EXISTING CONDITIONS.

100 Year Differential Run-Off Calculations

Existing Impervious Area
0.50 Acres of Pavement and Building

Existing Green Space
0.57 Acres

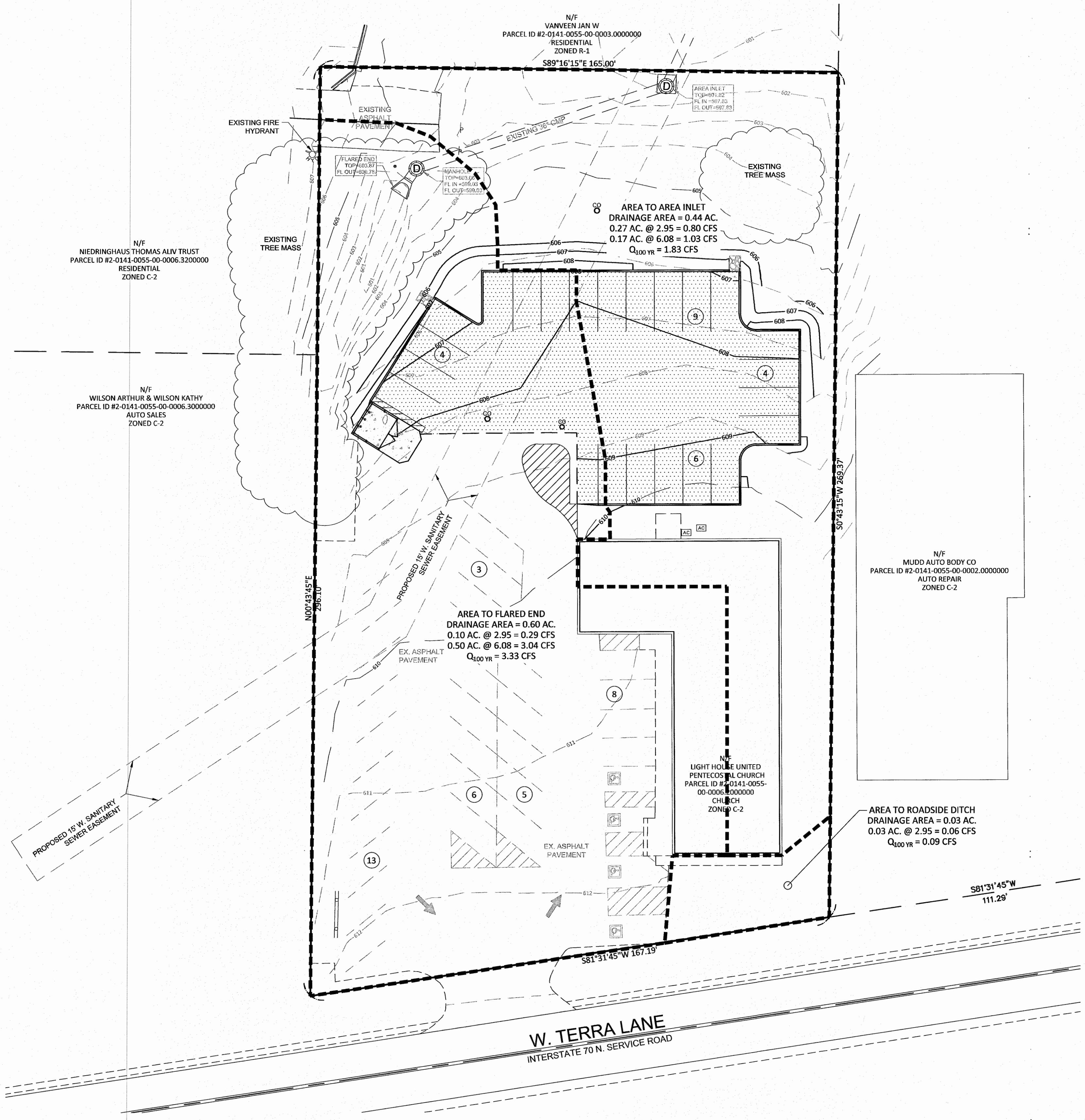
Existing percent of Impervious Area Coverage = 46.7%
(0.50 ac. x 6.08) + (0.57 ac. x 2.95) = 4.72 cfs (Existing)

Proposed Impervious Area Parking Lot and Building
0.67 Acres of Parking Area and Building

Proposed Green Space
0.40 Acres

Proposed percent of Impervious Area Coverage = 62.6%
(0.67 ac. x 6.08) + (0.40 ac. x 2.95) = 5.25 cfs (Proposed)

This site plan proposes an increase of 0.15 ac. in Impervious Area Coverage, with an increase to the 100 year storm run-off of 0.53 cfs { 5.25 cfs (Proposed) - 4.72 cfs (Existing) = 0.53 cfs }.



PROJECT TITLE

LIGHTHOUSE
A UNITED PENTECOSTAL CHURCH

PREMIER CIVIL ENGINEERING

308 TCW Court
Lake Saint Louis, MO 63367
Phone: (314) 925-7444 Fax: (314) 925-7457
Missouri Certificate of Authority # E-2011000031
Missouri Certificate of Authority # LS-2012007849

ENGINEERS AUTHENTICATION

The responsibility for professional engineering liability on this project is hereby limited to the seal of plans authenticated by the seal, signature, and date hereon or attached. Responsibility is disclaimed for all other engineering plans involved in this project and specifically includes revisions after the date without reauthentication.

STEVE MARSTON P.E.
ENGINEER
PE200001195

Developer / Owner Information

LIGHT HOUSE PENTECOSTAL CHURCH
835 WEST TERRA LANE
O'FALLON, MO 63366

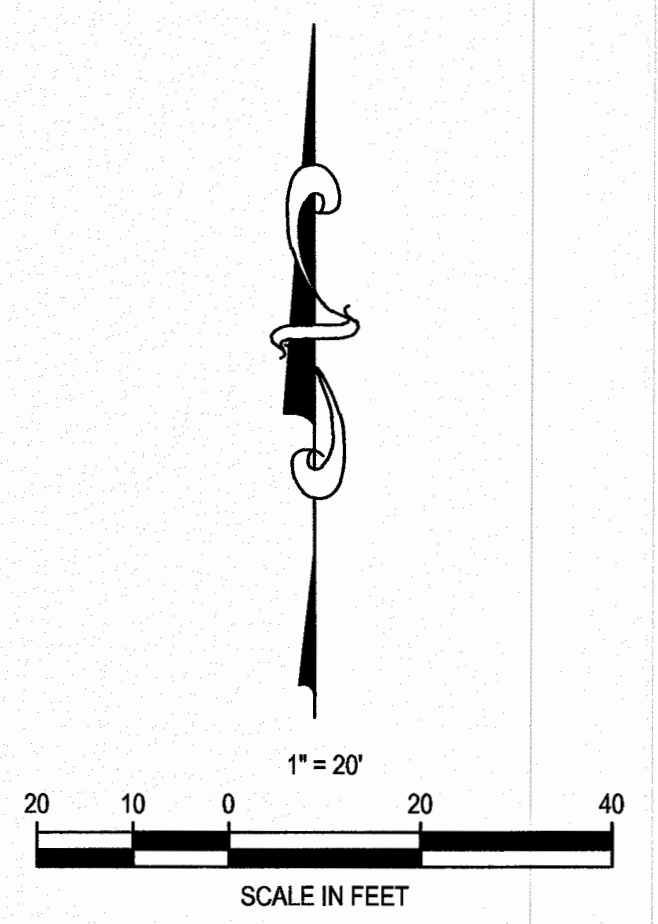
POST DEVELOPED DRAINAGE AREA MAP

P-Z No.
APPROVED: JULY 7, 2016

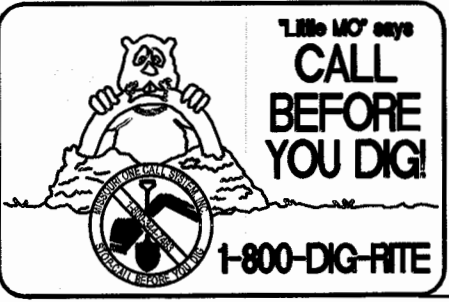
City No. 08-11.03

Sheet Number:
C5.1

PCE PROJECT NO. 162201



SITE ADDRESS: 835 WEST TERRA LANE
O'FALLON, MISSOURI 63366



NOTE:
Underground utilities and structures have been plotted from available information and therefore, their location must be considered approximate only. It is the responsibility of the individual contractors to notify the utility companies before actual construction.

All O.S.H.A. rules and regulations established for the type of construction required by these plans shall be strictly followed (i.e. trenching, blasting, etc.).

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