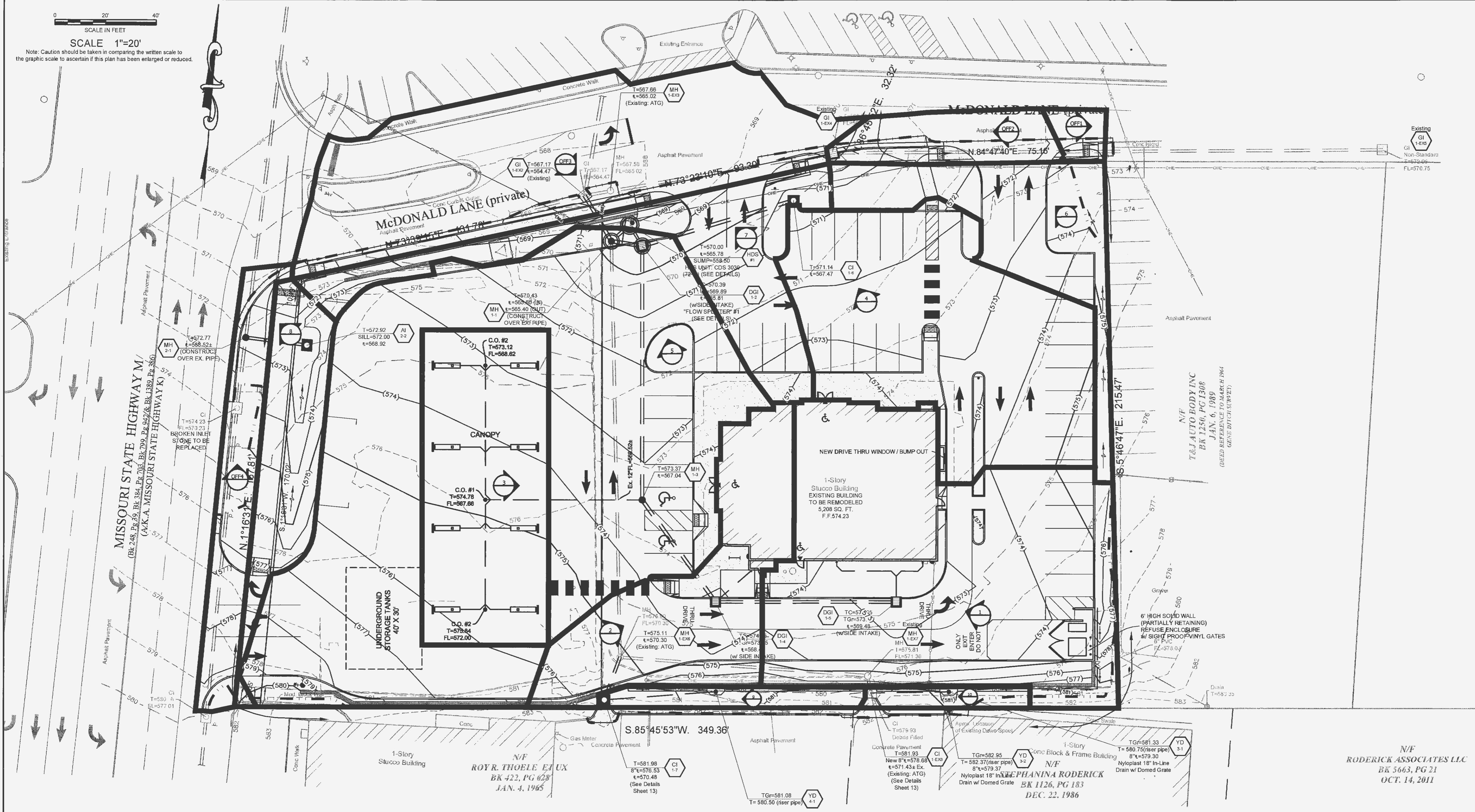


0 20' 40'
SCALE IN FEET
SCALE 1"=20'

Note: Caution should be taken in comparing the written scale to the graphic scale to ascertain if this plan has been enlarged or reduced.



PROPOSED DRAINAGE AREAS (O'FALLON)

I.D.	Total Area (ac.)	Grass (ac.)	Pavement (ac.)	Roof (ac.)	15-yr Comp. PI	15-yr Flow, Q (cfs)	15-yr Flow, Q x 1.1* (cfs)	to Structure
1	0.30	0.06	0.18	0.08	3.14	0.94	1.04	Prop. DGI 1-5
2	0.13	0.02	0.07	0.04	3.22	0.42	0.46	Prop. DGI 1-4
3	0.14	0	0	0.14	3.50	0.49	0.54	Prop. MH 1-3
4	0.21	0.01	0.20	0	3.41	0.72	0.79	Prop. CI 1-6
5	0.46	0.03	0.43	0	3.38	1.56	1.71	Prop. DGI 1-2
6	0.09	0.05	0.04	0	2.50	0.23	0.25	Exist. GI 1-EX4 on South Side of McDonald Ln.
7	0.10	0.03	0.07	0	2.96	0.30	0.33	Exist. GI 1-EX2 on South Side of McDonald Ln.
8	0.07	0.04	0.03	0	2.47	0.17	0.19	Exist. CIs on East side of Highway K
9	0.02	0.02	0	0	1.70	0.03	0.04	Prop. YD 4-1 to Prop. CI 1-7
10	0.01	0.01	0	0	1.70	0.02	0.02	Prop. YD 3-1 to Exist. CI 1-EX8

PROPOSED OFFSITE DRAINAGE AREAS (O'FALLON)

I.D.	Total Area (ac.)	Grass (ac.)	Pavement (ac.)	Roof (ac.)	15-yr Comp. PI	15-yr Flow, Q (cfs)	15-yr Flow, Q x 1.1* (cfs)	to Structure
OFF1	0.01	0	0.01	0	3.50	0.04	0.04	Exist. GI 1-EX5 at NE corner T&J Auto Body
OFF2	0.04	0	0.04	0	3.50	0.14	0.15	Ex. GI 1-EX4 on South Side of McDonald Ln.
OFF3	0.23	0.01	0.21	0	3.27	0.75	0.83	Ex. GI 1-EX2 on South Side of McDonald Ln.
OFF4	0.06	0.03	0.03	0	2.60	0.16	0.17	Exist. CIs on East side of Highway K

NOTE:
OFFSITE AERIAL AREAS 'B' & 'E' FROM THE EXISTING DRAINAGE AREA MAP ARE TRIBUTARY TO HDS UNIT.

CITY STORM WATER CALCULATIONS (15-YR., 20-MIN.)

ONSITE (LOTS 1 & 2)	OFFSITE - RAW + OTHER
EXISTING CONDITIONS PROPERTY AREA = 1.53 AC GRASS AREA = 0.17 AC PAVEMENT AREA = 1.09 AC ROOF AREA = 0.27 AC COMPOSITE PI = 3.301 CFS/AC Q = 5.05 CFS	EXISTING CONDITIONS PROPERTY AREA = 0.34 AC GRASS AREA = 0.04 AC PAVEMENT AREA = 0.30 AC COMPOSITE PI = 3.228 CFS/AC Q = 1.12 CFS
DEVELOPED CONDITIONS PROPERTY AREA = 1.53 AC GRASS AREA = 0.27 AC PAVEMENT AREA = 1.06 AC ROOF AREA = 0.20 AC COMPOSITE PI = 3.183 CFS/AC Q = 4.87 CFS	DEVELOPED CONDITIONS PROPERTY AREA = 0.34 AC GRASS AREA = 0.04 AC PAVEMENT AREA = 0.30 AC COMPOSITE PI = 3.228 CFS/AC Q = 1.12 CFS

LAND DISTURBANCE NOTES

- All storm and sanitary sewer structures and appurtenances are to conform to the Standard Details and Construction Specifications shown in the current Metropolitan St. Louis Sewer District, Standard Construction Specifications for Sewers and Drainage Facilities, 2007, except as modified by the City of O'Fallon Ordinances.
- Limits of Disturbance - The Contractor shall stay within the limits of disturbance as shown on these plans and minimize disturbance within the work area wherever possible.
- Stormwater Management Note - Land Area Disturbed = 1.63 acres (1.36 acres impervious). Any future land disturbance and/or increase in impervious area on this site may require additional stormwater management per CITY Regulations in place at that time (including total land disturbance and/or imperviousness added on this plan).

The signed and sealed original of this drawing is on file at the offices of The Clayton Engineering Company, Inc. The signed and sealed original is the official document and shall take precedence over any digital version.

Call Before you DIG
Dial 811 or TOLL FREE
1-800-344-7483
mofcall.com
MISSOURI ONE-CALL SYSTEM INC.

Underground facilities, structures & utilities have been plotted from available surveys, records & information, and therefore, do not necessarily reflect the actual existence, nonexistence, size, type, number of, or location of these facilities, structures, & utilities.

The Contractor shall be responsible for verifying the actual location of all underground facilities, structures, & utilities, either shown or not shown on these plans. The underground facilities, structures, & utilities shall be located in the field prior to any grading, excavation or construction of improvements. These provisions shall in no way absolve any party from complying with the Underground Facility Safety and Damage Prevention Act, Chapter 315, RSMo.

CITY OF O'FALLON
Design Storm: 15-yr., 20-min.
(per CITY OF O'FALLON for Storm Sewer Sizing;
Roof PI=3.5, Pavement PI=3.5, Grass PI=1.7;
Discharge Body: Dardenne Creek



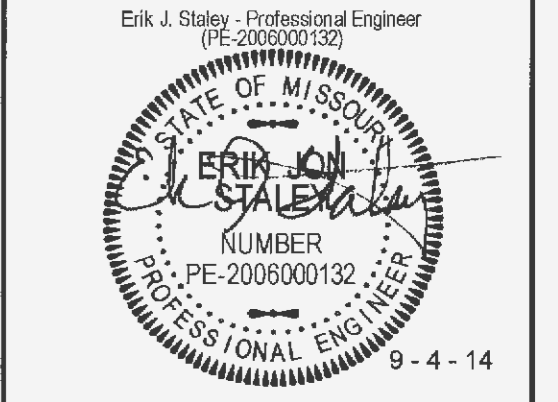
* INCLUDES A GROUND SATURATION FACTOR OF 1.1

PROJECT TITLE:
SITE CONSTRUCTION PLANS
DIRT CHEAP OF O'FALLON
#708 MO. STATE HIGHWAY K
O'FALLON, MISSOURI 63366

Copyright 2014
Clayton Engineering Co.
All Rights Reserved

the clayton engineering company, inc.
11820 Vestline Industrial Drive
St. Louis, MO 63146
(314) 652-8888
Fax: (314) 692-8888
Jobs: 10120

MO Cert. of Authority - Professional Engineering #000087
& Professional Surveying #000014



Plan Date: November 8, 2013
Revision Date: April 28, 2014
Revision Date: May 22, 2014
Revision Date: August 1, 2014
Revision Date: Sept. 4, 2014

Developer / Owner Information:
U-GAS PROPERTIES OF FALLON LLC
895 Bolger Court
Fenton, Missouri 63026
(636) 343-9770 FAX: (636) 343-9768

PROPOSED DRAINAGE AREA MAP

P+Z No.: (23-13.02)
Approval Date: 10/03/13
City No.

Page No.
20 of 23