

U-GAS STL, INC
 895 BOLGER CT
 FENTON, MO 63026
 (636) 343-9770

SITE CONSTRUCTION PLANS

PHILLIPS 66
 879 BRYAN ROAD
 O'FALLON, MO 63366



LOCATION MAP

WUNNENBERG'S 2004
 ST. CHARLES COUNTY STREET GUIDE
 PG 45, UU-16

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PROPERTY OWNER & DEVELOPER:

U-GAS STL, INC.
 895 BADGER CT.
 FENTON, MO. 63026

8-17-05
APPROVED
 (AS NOTED)

MODOT
 314-340-4100
 *FIBER OPTICS MAY
 BE PRESENT

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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 319, RSMO.

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.

REVISIONS	
1	06-16-05 SLH REVISED PER CITY OF O'FALLON & MODOT COMMENTS
1	05-02-05 SLH REVISED PER CITY OF O'FALLON COMMENTS

the clayton engineering company, inc.
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 clayton-engineering.com

Designed	SWO	Project Number	04221
Drawn	SLH	Sheet Number	
Checked	MJV		
Date	01/27/05		

ABBREVIATIONS		LEGEND	
AI	Area Inlet	Area Light (w/ 120V Recept.)	
B/B	Back to Back	Connection (Proposed)	
CB	Catch Basin	Fire Hydrant	
CI	Curb Inlet	Concrete	
CMP	Corrugated Metal Pipe	Doorway Entrance	
CTV	Cable Television	Drainage Flow	
CNB	Chord Bearing	Swale	
Conc	Concrete	Water Meter Or Valve	
DB	Deed Book	Gas Meter Or Valve	
DCB	Double Catch Basin	Utility Pole w/ Guy Wires	
DPL(N)	Drop FL from North	Handicap Parking Space	
DIP	Ductile Iron Pipe	Direction Of Traffic	
E	Electric		
F/F	Face to Face		
FES	Flared End Section		
FF	Finish Floor		
GI	Grate Inlet		
GMH	Grode Manhole		
L	Length of Curve		
MH	Manhole		
N/F	Now or Formerly		
OHE	Overhead Electric		
OHE&T	Overhead Electric & Telephone		
PB	Plot Book		
PG	Page		
PL	Property Line		
PVC	Polyvinyl Chloride Pipe		
R	Radius		
R/W	Right of Way		
RCP	Reinforced Concrete Pipe		
TBR	To Be Removed		
TBR&R	To Be Removed & Replaced		
TBRrel	To Be Relocated		
Typ	Typical		
UGE	Underground Electric		
UGFO	Underground Fiber Optic		
UGT	Underground Telephone		
UIP	Use In Place / Use In Place		
VCP	Vitrified Clay Pipe		
W	Water Service		

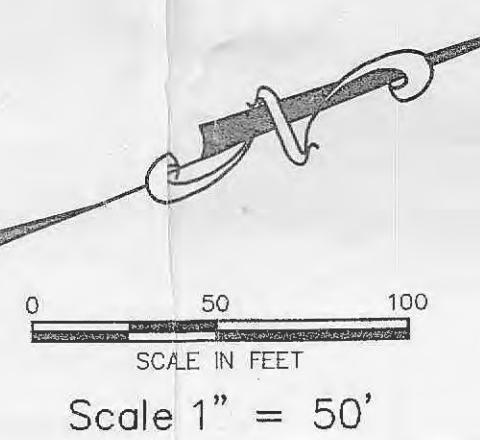
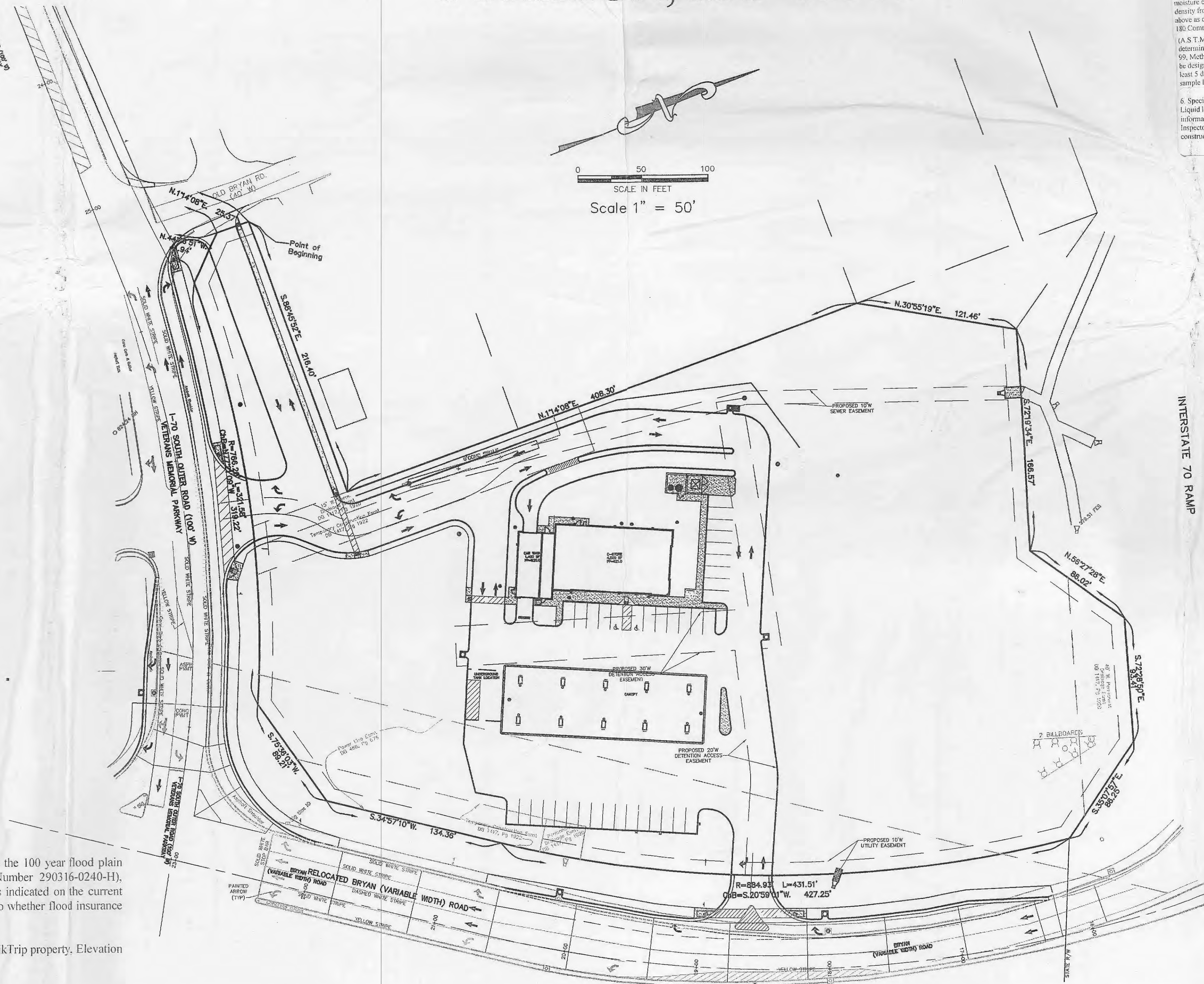
Notes

- The Developer must supply City construction inspectors with soil reports prior to or during site soil testing.
- The Contractor shall assume complete responsibility for controlling all siltation and erosion of the project area. The Contractor shall use whatever means necessary to control erosion and siltation including, but not limited to, staked straw bales and/or siltation fabric fences (possible methods of control are detailed in the plan). Control shall commence with grading and be maintained throughout the project until acceptance of the work by the Owner and/or the City of O'Fallon and/or MoDOT. The Contractor's responsibilities include all design and implementation as required to prevent erosion and the depositing of silt. The Owner and/or the City of O'Fallon and/or MoDOT may at their option direct the Contractor in his methods as deemed fit to protect property and improvements. Any depositing of silt or mud on new or existing pavement shall be removed immediately. Any depositing of silts or mud in new or existing storm sewers or swales shall be removed after each rain and affected areas cleaned to the satisfaction of the Owner and/or the City of O'Fallon and/or MoDOT.
- All fill placed under proposed storm and sanitary sewer, proposed roads, and/or paved areas shall be compacted to 90% of maximum density as determined by the Modified AASHTO T-180 Compaction Test or 95% of maximum density as determined by the Standard Proctor Test AASHTO T-99.
- All fill placed in proposed roads shall be compacted from the bottom of the fill up. All tests shall be verified by a soils engineer concurrent with grading and backfilling operations. Note that the moisture content of the soil in fill areas is to correspond to the compactive effort as defined by the Standard or Modified Proctor Test. Optimum moisture content shall be determined using the same test that was used for compaction. Soil compaction curves shall be submitted to the City of O'Fallon prior to the placement of fill. Proof rolling may be required to verify soil stability at the discretion of the City of O'Fallon.
- No slopes shall be steeper than 3 (horizontal) to 1 (vertical).
- All graded areas that are to remain bare for over 2 weeks are seeded and mulched. (DNR requirement) Also, when deemed necessary, positive steps should be exercised to prevent this soil from damaging adjacent property and silting up all storm drainage systems whether on or off site.
- All erosion control systems are inspected and necessary corrections made within 24 hours of any rainstorm resulting in one-half inch of rain or more.
- The drainage swale locations are shown see typical swale section.
- Provide erosion control for swales with velocities 2 to 5 cfs. It is suggested that for velocities >3cfs sodded swales be constructed.
- Rip rap shown at flared ends will be evaluated in the field after installation for effectiveness and field modified if necessary to reduce erosion on and off site.
- All paving to be in accordance with St. Charles County Standards and specifications except as modified by the City of O'Fallon ordinances.
- Brick shall not be used in the construction of sanitary or storm sewer structures.
- Joints shall be O-ring type.
- A 5/8" trash bar shall be installed on all inlets.
- All sanitary laterals and sanitary mains crossing under roadways must have the proper rock backfill and to required compaction.
- Lighting values will be reviewed on site prior to the final occupancy inspection. Corrections will need to be made if not in compliance with City Standards.
- All sign locations and sizes must be approved separately through the Planning Division. The sign locations are shown on the plans.
- All sign post and backs and bracket arms shall be painted black using Carboline Rustbond Penetrating Sealer SG and Carboline 133 HB paint (or equivalent as approved by City and MoDOT). Signs designating street name shall be on the opposite side of the street from traffic control signs.
- The City of O'Fallon shall also be contacted for utility locates under it maintenance responsibility. This may include water, sanitary storm, and traffic locates.
- All utilities will be located underground.
- Cutoff walls on flared end sections shall be 2' deep upstream and 3' deep downstream and flared end sections shall be reinforced concrete.
- City water meters are to be placed in a dedicated easement or have the location approved by Alliance Water Resources prior to incorporation into the plans.
- Full access curb cut onto Veterans Memorial Parkway will only be permitted on a temporary basis. Should a new access point to this property be possible due to the development of an adjacent parcel that fronts on Old Bryan Road, the full access onto Veterans Memorial Parkway shall be restricted to a Right-in/Right-out only. An escrow to cover this cost must be established with the City prior to Construction Site Plan approval. Any damage incurred to the existing Multi-Purpose Trail along both Bryan Road and Veterans Memorial Parkway during construction shall be repaired.

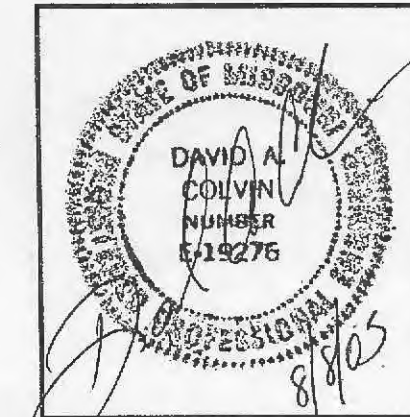
RECEIVED
 AUG - 8 2005
 BUILDING DEPT.

By graphic plotting only, this property is in Zone "X" (an area defined as being outside the 100 year flood plain limits) of Flood Insurance Rate Map Number 29189C0316-H, (Community Panel Number 290316-0240-H), effective date: August 2, 1995. This note is for the purpose of providing information as indicated on the current Flood Insurance Rate Map for this area, and should not be construed as an indication as to whether flood insurance should, or should not be purchased.

Project Benchmark : NAVD 1929 Top Iron Pipe with cap 320-D at northeast corner of QuikTrip property. Elevation = 624.15' (adopted from Survey by Clayton Engineering Company).



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PHILLIPS 66 O'FALLON

Bldg. Inspector