

Utility Contacts

STORM SEWER
 CITY OF OFALLON
 100 NORTH MAIN STREET
 OFALLON, MO 63366
 (636) 240-5555
 CONTACT: FRANK GODWIN

WATER SERVICE
 PUBLIC WATER SUPPLY DISTRICT #2
 OF ST. CHARLES COUNTY
 100 WATER DRIVE
 OFALLON, MO 63366
 (636) 561-3737 x-120
 CONTACT: BILL SHIRLEY

GAS SERVICE
 LACLEDE GAS COMPANY
 1959 TRADE CENTER DRIVE EAST
 ST. PETERS, MO 63378
 (636) 978-2663 X-103
 CONTACT: AL HERL

SANITARY SEWER
 DUCKETT CREEK SANITARY DISTRICT
 3550 HIGHWAY K
 ST. CHARLES, MO 63304
 (636) 941-1244
 CONTACT: CHRISTINE M. BEASLEY

ELECTRIC SERVICE
 AMEREN UE
 200 CALLAHAN ROAD
 WENTZVILLE, MO 63385
 (636) 639-8316
 (636) 639-8256 FAX
 CONTACT: DAVID GRAVITT

SBC
 402 N. 3RD ST.
 GROUND FLOOR
 ST. CHARLES, MO 63301
 (636) 949-1312
 CONTACT: KATHY SMITH

MODOT
 *FIBER OPTICS MAY BE PRESENT
 1590 WOODLAKE DRIVE
 CHESTERFIELD, MO 63017-5712
 (314) 340-4100
 CONTACT: SCOTTY D. WARD

CALL BEFORE YOU DIG - DRILL - BLAST
 1-800-344-7483
 (TOL FREE)
 MISSOURI ONE CALL SYSTEM, INC.

Duckett Creek Sanitary District Construction Notes

- Underground utilities have been plotted from available information and therefore location shall be considered approximate only. The verification of the location of all underground utilities, either shown or not shown on these plans, shall be the responsibility of the contractor and shall be located prior to any grading or construction of improvements.
- Gas, water and other underground utilities shall not conflict with the depth or horizontal location of existing or proposed sanitary and storm sewers, including house laterals.
- All existing site improvements disturbed, damaged or destroyed shall be repaired or replaced to closely match preconstruction conditions.
- All fill including places under proposed storm and sanitary sewer lines and paved areas including trench backfills within and off the road right-of-way shall be compacted to 90 percent of maximum density as determined by the "Modified AASHTO T-180 Compaction Test (ASTM D1557)". All tests shall be verified by a State Engineer concurrent with grading and backfilling operations. The compacted fill shall be free of rutting and shall be free of rutting and shall be non-yielding and non-pumping during proofrolling and compaction.
- The contractor shall prevent all storm, surface water, mud and construction debris from entering the existing sanitary sewer system.
- All sanitary sewer flowlines and tops built without elevations furnished by the engineer will be the responsibility of the sewer contractor.
- Easements shall be provided for all sanitary sewers, storm sewers and all utilities on the record plat.
- All sanitary sewer construction and materials shall conform to the current construction standards of the Duckett Creek Sanitary District.
- The Duckett Creek Sanitary District shall be notified at least 48 hours prior to construction for coordination inspection.
- All sanitary sewer building connections shall be designed so that the minimum vertical distance from the low point of the basement to the flowline of a sanitary sewer at the corresponding building connection shall not be less than the diameter of the pipe plus the vertical distance of 2-1/2 feet.
- All sanitary sewer manholes shall be waterproofed on the exterior in accordance with Missouri Dept. of Natural Resources specification 10 CSR-8.120(7)(C).
- All PVC sanitary sewer pipe shall conform to the requirements of ASTM D-3034 Standard Specification for PSM Polyvinyl Chloride Sewer Pipe, SDR-35 or equal, with "clean" 1/2 inch to 1 inch granular stone bedding uniformly graded. This bedding shall extend from 4 inches below the pipe to springline of pipe. Immediate backfill over pipe shall consist of same size "clean" or "minus" stone from springline of pipe to 6 inches above the top of pipe.
- All sanitary and storm sewer trench be water jetted. Granular backfill will be used under pavement areas.
- All pipes shall have positive drainage through manholes. Flat invert structures not allowed.
- All creek crossings shall be grouted rip-rap as directed by District inspectors. (All grout shall be high slump ready-mix concrete).
- Brick shall not be used on sanitary sewer manholes.
- Existing sanitary sewer service shall not be interrupted.
- Maintain access to existing residential driveways and streets.
- Pre-manufactured adapters shall be used at all PVC to DIP connections. Rubber boot/mission-type couplings will not be allowed.
- Any permits, licenses, easements, or approvals required to work on public or private properties or roadways are the responsibility of the developer.
- "Type N" Lock-Type Cover and Locking Device (Lock-Lug) shall be used where lock-type covers are required.

ENGINEERS
ARCHITECTS
SURVEYORS
SCIENTISTS

Farnsworth GROUP

20 ALLEN AVENUE, SUITE 200
 ST LOUIS, MISSOURI 63119
 (314) 952-7900 / (314) 952-1253 Fax

www.f-w.com

ISSUE

#	Date	Description
1	7-14-05	GENERAL
2	8/30/05	CROSS ACCESS ESMT

SEWER AND UTILITY PLAN

General Notes

- REFER TO SHEET C-1 FOR DIMENSIONS AND IDENTIFICATION OF PROPOSED IMPROVEMENTS.
- REFER TO SHEET C-2 FOR GRADING, DRAINAGE, AND EROSION CONTROL.
- REFER TO SHEET C-6 FOR LANDSCAPE MATERIALS.
- ALL UTILITIES WILL BE LOCATED UNDERGROUND.
- ALL EXISTING UNDERGROUND IMPROVEMENTS SHALL REMAIN UNLESS NOTED OTHERWISE.
- THE EXISTING UTILITIES SHOWN HEREON ARE FROM SURVEY AND INFORMATION PROVIDED BY UTILITY COMPANIES AND MUST BE CONSIDERED AS APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATIONS PRIOR TO COMMENCING WORK.
- BACKFILL ALL UTILITY TRENCHES UNDER PAVEMENT WITH GRANULAR MATERIAL. REFER TO DETAIL ON SHEET C-5.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING TOPS AND FLOWLINES OF ALL EXISTING SEWERS PRIOR TO COMMENCING WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND/OR ABANDONMENT OF ALL EXISTING UTILITY SERVICES (INCLUDING UTILITY COMPANY FEES).
- THE CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND DIMENSIONS OF EXIT PORCHES, RAMPS, PATIOS, PRECISE BUILDING DIMENSIONS, AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
- THE CONTRACTOR SHALL SAWCUT ALL EDGES OF EXISTING PAVEMENT THAT IS TO BE REMOVED. THE CONTRACTOR SHALL TAKE SPECIAL CARE TO CREATE A SMOOTH WORKING EDGE AND TO PLACE BACKFILL AND PAVEMENT SUCH THAT SETTLEMENT DOES NOT OCCUR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING ALL CONNECTION FEES, INSTALLING AND CONNECTING ALL UTILITIES (INCLUDING, BUT NOT LIMITED TO POWER, CABLE TV, TELEPHONE, WATER, SEWER, GAS, ETC.) FROM LOCAL UTILITY COMPANY SOURCE TO BUILDING.
- ALL MATERIALS AND WORKMANSHIP ASSOCIATED WITH THE STORM SEWER CONSTRUCTION SHALL CONFORM TO THE LATEST STANDARDS AND SPECIFICATIONS OF THE CITY OF OFALLON AND MISSOURI DEPT. OF TRANSPORTATION.
- ALL MATERIALS AND WORKMANSHIP ASSOCIATED WITH THE ELECTRIC CONSTRUCTION SHALL COMPLY WITH THE LATEST STANDARDS AND SPECIFICATIONS OF AMEREN UE.
- ALL MATERIALS AND WORKMANSHIP ASSOCIATED WITH THE TELEPHONE SERVICE CONSTRUCTION SHALL COMPLY WITH THE LATEST STANDARDS AND SPECIFICATIONS OF SBC.
- ALL MATERIALS AND WORKMANSHIP ASSOCIATED WITH THE NATURAL GAS SERVICE CONSTRUCTION SHALL COMPLY WITH THE LATEST STANDARDS AND SPECIFICATIONS OF LACLEDE GAS. CONTRACTOR TO COORDINATE LAYOUT AND RUN WITH GAS COMPANY.
- ALL MATERIALS AND WORKMANSHIP ASSOCIATED WITH THE SANITARY SEWER CONSTRUCTION SHALL COMPLY WITH THE LATEST STANDARDS AND SPECIFICATIONS OF DUCKETT CREEK SANITARY DISTRICT.
- ALL MATERIALS AND WORKMANSHIP ASSOCIATED WITH THE WATER SERVICE CONSTRUCTION SHALL COMPLY WITH THE LATEST STANDARDS AND SPECIFICATIONS OF PUBLIC WATER SUPPLY DISTRICT #2.
- BRICK SHALL NOT BE USED IN THE CONSTRUCTION OF STORM OR SANITARY SEWER STRUCTURES.
- ALL SANITARY JOINTS SHALL BE GASKETED O-RING TYPE.
- ALL SANITARY SEWER LINES & WATERMANS SHALL HAVE A MINIMUM OF 42" OF COVER.
- ALL DROP STRUCTURES SHALL BE BACKFILLED WITH COMPACTED ROCK BACKFILL IN THE DISTURBED GROUND AROUND THE STRUCTURE.
- SANITARY LATERALS AND MAINS CROSSING UNDER ROADWAYS MUST HAVE THE PROPER ROCK BACKFILL AND THE REQUIRED COMPACTION.
- ROOF DRAINS TO DISCHARGE ONTO GRADE.
- ALL STORM SEWERS SHALL HAVE A MINIMUM OF 36" OF COVER.
- PROVIDE 0.2' DROP THROUGH ALL STORM SEWER STRUCTURES.
- ALL STORM SEWER JOINTS SHALL BE GASKETED O-RING TYPE.
- THE CITY OF OFALLON SHALL ALSO BE CONTACTED FOR UTILITY LOCATES UNDER ITS MAINTENANCE RESPONSIBILITY.
- ANY NEW HDPE PIPE IS TO BE N-12WT AND TO MEET ASTM F1417 WATER TIGHT FIELD TEST.

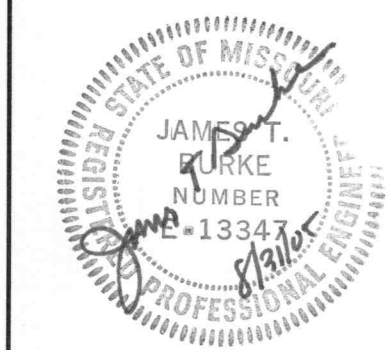
Keyed Notes

- NEW PRIMARY UNDERGROUND ELECTRIC SERVICE. CONTRACTOR TO PROVIDE AND INSTALL 2"-4" PVC CONDUIT AMEREN UE TO PROVIDE AND PULL CONDUCTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONNECTION.
- NEW TRANSFORMER, AMEREN UE TO PROVIDE AND INSTALL THE TRANSFORMER AND CONCRETE PAD (VERIFY SIZE). CONTRACTOR TO PROVIDE A BASE OF GRANULAR MATERIAL OVER COMPACTED BACKFILL.
- NEW (1) 4" PVC CONDUIT FOR TELEPHONE SERVICE CONNECT TO CLOSEST AVAILABLE SOURCE. CONTRACTOR TO BE RESPONSIBLE FOR ALL MATERIAL AND INSTALLATION OF PVC CONDUIT AND CABLE STRINGS.
- NEW 2" WATER SERVICE LINE WITH METER TO BE INSTALLED PER PWS# 22 STANDARDS AND SPECIFICATIONS. CONTRACTOR TO FURNISH AND INSTALL A DETECTOR CHECK VALVE ASSEMBLY AND BOX PER PWS# 22 REQUIREMENTS.
- NEW 6" PVC SANITARY LATERAL AT 2% MINIMUM SLOPE AND 3" MINIMUM COVER. ALL MATERIAL AND INSTALLATION BY CONTRACTOR.
- SEWER CLEANOUT WITH CAST IRON FRAME AND SOLID TOP. REFER TO DETAIL ON SHEET C-5.
- NEW UNDERGROUND NATURAL GAS SERVICE, SIZED BY UTILITY CO. CONNECT TO NEAREST AVAILABLE SOURCE.
- NEW GAS METER.
- NEW ROOF DOWNSPOUT BOOT TO ACCEPT DOWNSPOUTS AND OUTLET PIPE PAINT BOOT TO MATCH BUILDING. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION AND DETAILS.
- REMOVE EXISTING SOLID TOP MANHOLE COVER AND REPLACE WITH SLOTTED OR GRATE TOP.
- NEW YARD DRAIN, MATCH ON SITE YARD DRAINS.
- NEW 30"-8" PVC AT 1.00%.
- NEW 30"-8" PVC AT 1.00%.
- NEW 22"-8" PVC AT 1.00%.
- NEW 37"-8" PVC AT 1.00%.
- NEW 29"-8" PVC AT 1.00%.
- NEW 42"-8" PVC AT 1.00%.
- NEW 29"-8" PVC AT 1.00%.
- NEW 8"-8" PVC AT 1.00%.
- NEW 60"-8" PVC AT 1.00%.
- NEW 6" PVC AT 2.00%.

Abbreviations and Legend

EXISTING AREA LIGHT	N	NORTH
EXISTING ELECTRIC PEDESTAL	S	SOUTH
EXISTING STORM SEWER STRUCTURE	E	EAST
EXISTING FIRE HYDRANT	W	WEST/WDE
EXISTING STORM MANHOLE	FL	FLOW LINE
EXISTING SANITARY MANHOLE	STM/ST	STORM
EXISTING SIGN	SAN/SA	SANITARY
EXISTING TRANSFORMER	MH	MANHOLE
EXISTING LANDSCAPING	PB	PLAT BOOK
EXISTING POWER POLE	DB	DEED BOOK
EXISTING CLEAN OUT	PG	PAGE
EXISTING WATER VALVE	ESMT	EASEMENT
EXISTING GAS VALVE	R/W	RIGHT OF WAY LINE
EXISTING GAS METER	IP	IRON PIPE
EXISTING HANDICAP PARKING MARKER	EX	EXISTING
EXISTING FIRE DEPARTMENT CONNECTION		
NUMBER OF PARKING STALLS		
KEYED NOTE DESIGNATOR		

562	FINISH CONTOUR AS BUILT
00	EX FIBER OPTIC LINE
00	EX OVERHEAD ELECTRIC
12.54	EX SANITARY SEWER WITH SIZE
12.57	EX STORM SEWER WITH SIZE
12.78	EX WATER LINE WITH SIZE



PROJECT:
JBUCK'S RESTAURANT

LOT 2 PERSIMMON POINTE

1165 TECHNOLOGY DR
 OFALLON, MO

Date: 06/28/05
 Design/Drawn: JPB
 Approved: JTB
 Book No.: -

SEWER AND UTILITY PLAN

C-3

SHEET 4 OF 9
 Project No.: 299163.20