



# GRADING AND DRAINAGE PLAN

## General Notes

- FINISH SPOT ELEVATIONS AND CONTOURS ARE SHOWN TO TOP OF NEW PAVEMENT, WALKS, SOD, ETC.
- ALL GRADING AND DRAINAGE SHALL CONFORM TO THE LATEST STANDARDS AND SPECIFICATIONS OF THE CITY OF O'FALLON, MISSOURI DEPARTMENT OF TRANSPORTATION AND RECOMMENDATIONS OF THE GEOTECHNICAL REPORT SET FORTH BY TERRACON DATED NOV. 17, 2003.
- NO SLOPE SHALL BE STEEPER THAN 3 (HORIZONTAL) TO 1 (VERTICAL).
- 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 PLANS). 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 OR 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. NO GRADED AREA IS TO REMAIN BARE FOR OVER 2 WEEKS WITHOUT BEING SEEDED AND MULCHED.
- THE CONTRACTOR SHALL VERIFY THE PROPOSED ELEVATIONS TO ASSURE POSITIVE DRAINAGE FOR THE PARKING LOT & ENTRANCES PRIOR TO POURING ANY CONCRETE OR INSTALLING ASPHALT PAVEMENT. HE SHALL REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER.
- DEVELOPER MUST SUPPLY CITY CONSTRUCTION INSPECTORS WITH SOIL REPORTS PRIOR TO OR DURING SITE SOIL TESTING.
- ALL EROSION CONTROL SYSTEMS ARE INSPECTED AND NECESSARY CORRECTIONS MADE WITHIN 24 HOURS OF ANY RAINSTORM RESULTING IN ONE-HALF INCH RAIN OR MORE.
- GRADED AREA SHALL BE SEEDED AND MULCHED WITHIN 6 MONTHS OF COMPLETION.
- ALL FILLED PLACED UNDER PROPOSED STORM AND SANITARY SEWERS, PROPOSED ROADS, AND/OR PAVED AREAS SHALL BE COMPACTED TO 90% OF MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED AASHTO T-198 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. ENSURE 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 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.
- FINISH SPOT ELEVATIONS AT THE FACE OF CURBS ARE SHOWN TO THE FLOWLINE OF THE GUTTER UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL REVIEW THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR THE PROJECT AND COMPLY WITH ALL REQUIREMENTS.
- CONTRACTOR SHALL OBTAIN PERMIT FROM MODOT FOR GRADING WORK ON MODOT RIGHT OF WAY.
- THE EXISTING UTILITIES SHOWN HEREON ARE FROM SURVEY OR RECORD INFORMATION AND MUST BE CONSIDERED AS APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATIONS PRIOR TO COMMENCING WORK.
- ALL MATERIALS & WORKMANSHIP ASSOCIATED WITH THE SANITARY SEWER CONSTRUCTION SHALL CONFORM TO THE LATEST STANDARD SPECIFICATIONS FOR CONSTRUCTION FROM DUCKETT CREEK SANITARY SEWER DISTRICT.
- ALL MATERIALS & WORKMANSHIP ASSOCIATED WITH THE STORM SEWER CONSTRUCTION SHALL CONFORM TO THE LATEST STANDARD SPECIFICATIONS FOR CONSTRUCTION OF PUBLIC IMPROVEMENTS OF THE CITY OF O'FALLON AND MISSOURI DEPARTMENT OF TRANSPORTATION.
- CONTRACTOR SHALL CLEAN AND MAINTAIN THE TEMPORARY SEDIMENT BASIN AFTER EACH MEASURABLE RAIN. BEFORE END OF CONSTRUCTION, THE BASIN MUST BE REGRADED TO PROPOSED CONDITIONS.
- SEDIMENT AND EROSION CONTROL WILL BE THE SOLE RESPONSIBILITY OF THE DEVELOPER, MODOT OR ITS CONTRACTOR WILL NOT BE LIABLE UPON DATE OF PERMIT.
- GRADED AREAS THAT REMAIN BARE FOR OVER 2 WEEKS SHALL BE SEEDED AND MULCHED.

## Benchmark

BENCHMARK USED RM 57: ELEVATION= 548.01 PER FLOOD INSURANCE MAP- COMMUNITY PANEL NO. 29183C-0430 E CHISELED SQUARE ON SOUTHWEST END OF SOUTH HEADWALL OF CULVERT LOCATED AT JUNCTION OF U.S. HIGHWAY 40 AND MODOT HIGHWAY K.

## Abbreviations and Legend

⊙	EXISTING AREA LIGHT	N	NORTH
⊞	EXISTING ELECTRIC PEDESTAL	S	SOUTH
⊞	EXISTING STORM SEWER STRUCTURE	E	EAST
⊞	EXISTING FIRE HYDRANT	W	WEST/WIDE
⊞	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		



PROJECT:  
JBUCK'S RESTAURANT

LOT 2  
PERSIMMON  
POINTE

1165 TECHNOLOGY DR  
O'FALLON, MO

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

SHEET TITLE:  
**GRADING AND DRAINAGE PLAN FOR CITY**

SHEET NUMBER:  
**C-2A**  
SHEET 3 OF 9

Project No.: 299163.20