## GENERAL NOTES

1.) THE UTILITIES SHOWN HEREIN WERE PLOTTED FROM AVAILABLE INFORMATION AND DO NOT NECESSARILY REFLECT THE ACTUAL EXISTENCE, NON-EXISTENCE, SIZE, TYPE, OR LOCATION OF THESE OR OTHER UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFYING THE ACTUAL LOCATION OF ALL UTILITIES, SHOWN OR NOT SHOWN, AND SAID UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY CONSTRUCTION OF IMPROVEMENTS.

CONTRACTOR MUST CONTACT "DIG-RITE" (1-800-344-7483) FOR UTILITY LOCATIONS BEFORE PERFORMING ANY EXCAVATION ON THE SITE.

SEWERS, GAS, TELEPHONE, WATERLINE AND ANY OTHER PRIOR TO CONSTRUCTION, ALL CONNECTIONS OR REPAIRS ARE TO BE MADE IN ACCORDANCE WITH LOCAL CODES AND/OR UTILITY COMPANIES REQUIREMENTS.

2.) ALL ELEVATIONS ARE BASED ON U.S.G.S. DATUM.

THE CITY OF O'FALLON STANDARDS.

COMPLETION OF ROAD IMPROVEMENTS.

- BOUNDARY AND TOPOGRAPHIC SURVEY BY J.R. GRIMES CONSULTING ENGINEERS.
- 4.) ALL GRADING AND DRAINAGE TO BE IN CONFORMANCE WITH THE CITY OF O'FALLON.
- 5.) NO SLOPES SHALL EXCEED 3 (HORIZONTAL) TO 1 (VERTICAL), UNLESS JUSTIFIED BY GEOTECHNICAL REPORT WHICH HAS BEEN ACCEPTED/APPROVED BY THE CITY OF O'FALLON AND THE OFFICE OF THE ENGINEER.
- STORMWATER SHALL BE DISCHARGED AT AN ADEQUATE NATURAL DISCHARGE POINT.
- 7.) THE DEVELOPER MUST SUPPLY THE CITY CONSTRUCTION INSPECTORS WITH SOILS REPORTS PRIOR TO OR DURING SITE SOIL TESTING.
- 8.) ALL MATERIALS AND METHODS OF CONSTRUCTION TO MEET THE CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF O'FALLON.
- 9.) ALL GRADED AREAS SHALL BE PROTECTED FROM EROSION BY EROSION CONTROL DEVICES AND/OR SEEDING AND MULCHING AS REQUIRED BY THECITY OF O'FALLON, REFER TO SILTATION NOTES.
- 10.) PRIOR TO BEGINNING ANY WORK ON THE SITE, THE GRADING CONTRACTOR SHALL CONTACT THE OFFICE OF THE DEVELOPER FOR SPECIFIC INSTRUCTIONS RELEVANT TO THE SEQUENCING OF WORK.
- 11.) ALL FILLS AND BACKFILLS SHALL BE MADE OF SELECTED EARTH MATERIALS, FREE FROM BROKEN MASONRY, ROCK, FROZEN EARTH, RUBBISH, ORGANIC MATERIAL AND DEBRIS.
- 12.) GRADING CONTRACTOR SHALL KEEP EXISTING ROADWAYS CLEAN OF MUD AND DEBRIS AT ALL
- 13.) A GRADING PERMIT IS REQUIRED PRIOR TO ANY GRADING ON THE SITE, NO CHANGE IN
- WATERSHEDS SHALL BE PERMITTED. 14.) INTERIM STORMWATER DRAINAGE CONTROL IN THE FORM OF SILTATION CONTROL MEASURES ARE
- REQUIRED. 15.) THE DEVELOPER IS REQUIRED TO PROVIDE ADEQUATE STORMWATER SYSTEMS INACCORDANCE WITH
- 16.) ADEQUATE TEMPORARY OFF-STREET PARKING SHALL BE PROVIDED FOR CONSTRUCTION EMPLOYEES, PARKING ON NON-SURFACED AREAS SHALL BE PROHIBITED IN ORDER TO ELIMINATE THE CONDITION WHEREBY MUD FROM CONSTRUCTION AND EMPLOYEE VEHICLES IS TRACKED ONTO
- THE PAVEMENT CAUSING HAZARDOUS ROADWAY AND DRIVING CONDITIONS. 17.) THE DEVELOPER IS ADVISED THAT UTILITY COMPANIES WILL REQUIRE COMPENSATION FOR RELOCATION OF THEIR UTILITY FACILITIES WITHIN PUBLIC ROAD RIGHT-OF-WAY, UTILITY RELOCATION COST SHALL BE CONSIDERED THE DEVELOPERS RESPONSIBILITY. THE DEVELOPER SHOULD ALSO BE AWARE OF EXTENSIVE DELAYS IN UTILITY COMPANY RELOCATION AND ADJUSTMENTS, SUCH DELAYS WILL NOT CONSTITUTE A CAUSE TO ALLOW OCCUPANCY PRIOR TO
- 18.) ALL DISTURBED EARTH AREAS WITHIN THE CITY OF O'FALLON RIGHT-OF-WAY SHALL BE SODDED
- 19.) ADDITIONAL SILTATION CONTROL SHALL BE INSTALLED AS REQUIRED BY THE CITY OF O'FALLON
- 20.) IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO COORDINATE WITH THE UTILITY COMPANIES THE REMOVAL OF EXISTING UTILITY COMPANY FACILITIES THAT CONFLICT WITH THE NEW DEVELOPMENT AND THE INSTALLATION OF THE NEW SYSTEMS TO SERVE THE PROPOSED
- 21.) ALL CONSTRUCTION OF PUBLIC IMPROVEMENTS AND ALL CONSTRUCTION WITHIN CITY R.O.W. SHALL COMPLY WITH THE O'FALLON STANDARDS CONSTRUCTION SPECIFICATIONS FOR SUBDIVISIONS. THE CITY ENGINEER SHALL BE NOTIFIED AT LEAST 1 WEEK IN ADVANCE OF THE START OF SAID CONSTRUCTION AND ALL APPLICABLE CITY PERMITS SHALL BE OBTAINED PRIOR TO THE START OF SAID CONSTRUCTION.
- 22.) RIP RAP SHOWN AT FLARED ENDS WILL BE EVALUATED THE FIELD AFTER INSTALLATION FOR EFFECTIVENESS AND FIELD MODIFIED IF NECESSARY TO REDUCE EROSION ON AND OFF SITE.
- 23.) 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.
- 24.) 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.
- 25.) BRICK SHALL NOT BE USED IN THE CONSTRUCTION OF STORM SEWER STRUCTURES
- 26.) ALL JOINTS SHALL BE GASKETED O-RING TYPE.
- 27.) GRADED AREAS THAT ARE BARE FOE OVER 2 WEEKS ARE TO BE SEEDED AND MULCHED.
- 28.) ALL SIDEWALKS, CURB RAMPS, RAMP AND ACCESSIBLE PARKING SPACES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT APPROVED "AMERICAN WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES" (ADAAG) ALONG WITH THE REQUIRED GRADES, CONSTRUCTION MATERIALS. SPECIFICATIONS AND SIGNAGE. IF ANY CONFLICT OCCURS BETWEEN THE ABOVE INFORMATION AND THE PLANS, THE ADAAG GUIDELINES SHALL TAKE PRECEDENCE AND THE CONTRACTOR, PRIOR TO ANY CONSTRUCTION, SHALL NOTIFY THE PROJECT ENGINEER.
- 29.) PROPOSED CONTOURS SHOWN ARE FINISHED ELEVATIONS ON PAVED AREAS
- 30.) INSTALLATION OF LANDSCAPING AND ORNAMENTAL ENTRANCE MONUMENT OR IDENTIFICATION SIGNAGE CONSTRUCTION IF PROPOSED, SHALL BE REVIEWED BY THE CITY OF O'FALLON FOR SIGHT DISTANCE CONSIDERATIONS AND APPROVED PRIOR TO INSTALLATION OR CONSTRUCTION.
- 31.) ALL SIGN LOCATIONS AND SIZES MUST BE APPROVED SEPARATELY THROUGH THE PLANNING
- 32.) ELECTRIC UTILITIES SHALL BE LOCATED UNDERGROUND

PREPARED FOR:

BRINKMANN CONSTRUCTORS

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- 33.) ALL UTILITIES, PUBLIC AND PRIVATE, WILL BE FUNCTIONING AND AVAILABLE FOR USE PRIOR TO OCCUPANCY OF THE PROPOSED BUILDING.
- 34.) STREET TREES SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 400.420 OF THE CITY OF O'FALLON'S ZONING ORDINANCE.
- 35.) ALL LANDSCAPE AREAS WITHIN THIS DEVELOPMENT REQUIRED TO BE IRRIGATED.
- 36.) DETENTION FOR THIS SITE SHALL BE PROVIDED IN ACCORDANCE WITH THE LATEST CITY OF O'FALLON REQUIREMENTS. THE PROPOSED DETENTION BASIN #1 WILL PROVIDE DENTENTION FOR THE AREA WITHIN WATERSHED #1. DETENTION BASIN #2 WILL PROVIDE DENTENTION FOR THE AREA WITHIN WATERSHED #2.
- 37.) ALL PAVING TO BE IN ACCORDANCE WITH ST. CHARLES COUNTY STANDARDS AND SPECIFICATIONS EXCEPT AS MODIFIED BY THE CITY OF O'FALLON'S ORDINANCE.
- 38.) ALL SIGN POST AND BACKS AND BRACKET ARMS SHALL BE PAINTED USING CARBONLINE RUSTBOND PENETRATING SEALER SG AND CARBOLINE133 HB PAINT OR EQUAL AS APPROVED BY
- 39.) THE CITY OF O'FALLON SHALL BE CONTRACTED FOR UTILITY LOCATED UNDER ITS MAINTENANCE RESPONSIBILITY. INCLUDING STORM AND TRAFFIC LOCATES.

## SILTATION NOTES

- 1.) EROSION AND SILTATION CONTROL SHALL BE INSTALLED PRIOR TO ANY GRADING AND BE MAINTAINED THROUGHOUT THE PROJECT UNTIL ACCEPTANCE OF THE WORK BY THE OWNER AND/OR CONTROLLING REGULATORY AGENCY AND ADEQUATE VEGETATIVE GROWTH INSURES NO FURTHER EROSION OF THE SOIL.
- 2.) ADDITIONAL SILTATION CONTROL MAY BE REQUIRED AS DEEMED NECESSARY BY THE CITY OF O'FALLON.
- 3.) NO SLOPES SHALL BE GRADED STEEPER THAN 3:1 (HORIZONTAL: VERTICAL).
- 4.) PARKING ON NON-SURFACED AREAS IS PROHIBITED IN ORDER TO ELIMINATE THE CONDITION WHEREBY MUD FROM CONSTRUCTION AND EMPLOYEE VEHICLES IS TRACKED ONTO PAVEMENT CAUSING HAZARDOUS ROADWAY AND DRIVING CONDITIONS, CONTRACTOR SHALL KEEP ROAD CLEAR OF MUD AND DEBRIS. THE OWNER SHALL, AT ALL TIMES, CONTAIN MUD AND OTHER SPOILS ON THIS SITE, NO VEHICLE, TRAILER OR CONSTRUCTION EQUIPMENT IS TO DEPOSIT MUD OR ANY OTHER MATERIAL ON PUBLIC STREETS.
- 5.) STORM WATER PIPES, OUTLETS AND CHANNELS SHALL BE PROTECTED BY SILT BARRIERS AND KEPT FREE OF WASTE AND SILT AT ALL TIMES PRIOR TO FINAL SURFACE STABILIZATION AND/OR PAVING.
- 6.) SILTATION FENCES SHALL BE INSPECTED PERIODICALLY FOR DAMAGE AND FOR THE AMOUNT OF SEDIMENT WHICH HAS ACCUMULATED. REMOVAL OF SEDIMENT WILL BE REQUIRED WHEN IT REACHES 1/2 THE HEIGHT OF THE SILTATION FENCE.
- 7.) STRAW BALES SHALL BE INSPECTED PERIODICALLY FOR DETERIORATION. BALES WHICH HAVE ROTTED OR FAILED SHALL BE REPLACED. REMOVAL OF SEDIMENT WILL BE REQUIRED WHEN IT REACHES 1/2 THE HEIGHT OF THE
- 8.) IF CUT AND FILL OPERATIONS OCCUR DURING A SEASON NOT FAVORABLE FOR IMMEDIATE ESTABLISHMENT OF A PERMANENT GROUND COVER, A FAST GERMINATING ANNUAL SUCH AS RYE GRASSES OR SUDAN GRASSES SHALL BE UTILIZED TO RETARD EROSION, IF ADEQUATE STORMWATER DETENTION AND EROSION CONTROL DEVICES HAVE NOT BEEN ESTABLISHED.

## SILTATION MAINTENANCE NOTES:

- 1.) STRAW BALE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL
- 2.) CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BALES, END RUNS AND UNDERCUTTING BENEATH BALES.
- 3.) NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BALES SHALL BE ACCOMPLISHED PROMPTLY.
- 4.) SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
- 5.) ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE STRAW BALE BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.
- 6.) ALL EXPOSED SLOPES WHETHER TEMPORARY OR PERMANENT SHALL BE SEEDED PER SPECIFICATIONS IMMEDIATELY UPON COMPLETION.
- 7.) ALL FLOWLINES OF DIVERSION DITCHES AND SWALES SHALL BE PROTECTED
- 8.) ADDITIONAL SILTATION CONTROL MAY BE REQUIRED BY AN AUTHORIZED 9.) ALL EROSION CONTROL SYSTEMS AREA INSPECTED AND NECESSARY

ONE-HALF INCH OF RAIN OR MORE.

CORRECTION MADE WITHIN 24 HOURS OF ANY RAINSTORM RESULTING IN

10.) THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY FOR CONTROLLING ALL SILTATION AND EROSION CONTROL 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 SILTATION CONTROL DETAILED IN THE PLAN). CONTROL SHALL COMMENCE WITH THE 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 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

## DUCKETT CREEK SANITARY DISTRICT CONSTRUCTION NOTES

- 1.) 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.
- 2.) GAS, WATER AND OTHER UNDERGROUND UTILITIES SHALL NOT CONFLICT WITH DEPTH OR HORIZONTAL LOCATION OF EXISTING OR PROPOSED SANITARY AND STORM SEWERS, INCLUDING HOUSE LATERALS.
- 3.) ALL EXISTING SITE IMPROVEMENTS DISTURBED, DAMAGED OR DESTROYED SHALL BE REPAIRED OR REPLACED TO CLOSELY MATCH PRECONSTRUCTION
- 4.) 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 THE MAXIMUM DENSITY AS DETERMINED BY THE "MODIFIED AASHTO T-180 COMPACTION TEST (ASTM D1557)" ALL TEST SHALL BE VERIFIED BY A SOILS ENGINEER CONCURRENT WITH GRADING AND BACKFILLING OPERATIONS. THE COMPACTED FILL SHALL BE FREE OF RUTTING AND SHALL BE NON-YEILDING AND NON PUMPING DURING PROOF ROLLING AND COMPACTION.
- 5.) THE CONTRACTOR SHALL PREVENT ALL STORM, SURFACE WATER, MUD AND CONSTRUCTION DEBRIS FROM ENTERING THE EXISTING SANITARY
- 6.) ALL SANITARY SEWER FLOWLINES AND TOPS BUILT WITHOUT ELEVATIONS FURNISHED BY THE ENGINEER WILL BE THE RESPONSIBILITY OF SEWER
- 7.) EASEMENTS SHALL BE PROVIDED FOR ALL SANITARY SEWERS, STORM SEWERS AND ALL UTILITIES ON THE RECORD PLAT.
- 8. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE CURRENT CONSTRUCTION STANDARDS OF THE DUCKETT CREEK SANITARY DISTRICT.
- 9.) THE DUCKETT CREEK SANITARY DISTRICT SHALL BE NOTIFIED 48 HOURS

PRIOR TO CONSTRUCTION FOR COORDINATION INSPECTION.

- 10.) 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.
- 11.) ALL SANITARY SEWER MANHOLES SHALL BE WATERPROOFED ON THE EXTERIOR IN ACCORDANCE WITH MISSOURI DEPT. OF NATURAL RESOURCES SPECIFICATION 10 CRS-8.120(7)(E).
- 12.) 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" TO 1" GRANULAR STONE BEDDING UNIFORMLY GRADED. THIS BEDDING SHALL EXTEND FROM 4 INCHES BELOW THE PIPE TO THE SPRINGLINE OF PIPE. IMMEDIATE BACKFILL OVER THE PIPE SHALL CONSIST OF SAME SIZE "CLEAN" OR "MINUS" STONE FROM SPRINGLINE OF PIPE TO 6 INCHED ABOVE THE TOP OF PIPE.
- 13.) ALL SANITARY AND STORM SEWER TRENCH BACKFILLS SHALL BE WATER JETTED, GRANULAR BACKFILL WILL BE USED UNDER PAVEMENT AREAS.
- 14.) ALL PIPES SHALL HAVE POSITIVE DRAINAGE THROUGH MANHOLES. NO FLAT INVERT STRUCTURES ARE ALLOWED.
- 15.) ALL CREEK CROSSINGS SHALL BE GROUTED RIP-RAP AS DIRECTED BY THE DISTRICT INSPECTORS. (ALL GROUT SHALL BE HIGH SLUMP READY-MIX
- 16.) BRICK SHALL NOT BE USED ON SANITARY SEWER MANHOLES.
- 17.) EXISTING SANITARY SEWER SERVICE SHALL NOT BE INTERRUPTED.
- 18.) MAINTAIN ACCESS TO EXISTING RESIDENTIAL DRIVEWAYS AND STREETS
- 19.) PRE-MANUFACTURED ADAPTERS SHALL BE USED AT ALL PVC TO DIP CONNECTIONS. RUBBER BOOT/ MISSION-TYPE COUPLINGS WILL NOT BE
- 20.) ANY PERMITS, LICENSES, EASEMENTS, OR APPROVALS REQUIRED TO WORK ON PUBLIC OR PRIVATE PROPERTIES OR ROADWAY ARE THE RESPONSIBILITY OF THE DEVELOPER.
- 21.) 'TYPE N' LOCK-TYPE COVER AND LOCKING DEVICE (LOCK-LUG) SHALL BE USED WHERE LOCK-TYPE COVERS ARE REQUIRED.

## STORM SEWER NOTES:

- 1.) ALL MATERIALS AND METHODS OF CONSTRUCTION FOR STORM SEWERS TO MEET REQUIREMENTS AND SPECIFICATIONS OF THE CITY OF O'FALLON.
- 2.) ALL TRENCHES UNDER AREAS TO BE PAVED AND UNDER EXISTING PAVING SHALL BE GRANULARLY FILLED WITH 3/4" MINUS CRUSHED LIMESTONE ONLY. BACKFILL SHALL BE PLACED IN ACCORDANCE WITH CITY OF O'FALLON STANDARDS.
- 3.) ALL REINFORCED CONCRETE PIPE SHALL BE CLASS III PIPES UNLESS OTHERWISE NOTED
- 4.) CONTRACTOR TO START LAYING PIPE AT DOWNSTREAM MANHOLE AND WORK UPSTREAM.
- 5.) BRICK SHALL NOT BE USED IN THE CONSTRUCTION OF STORM SEWER STRUCTURES.
- 6.) PROVIDE 5/8" DIAMETER TRASH BAR FOR ALL INLETS.
- 7.) 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 THE MAXIMUM DENSITY AS DETERMINED BY THE "MODIFIED AASHTO T-180 COMPACTION TEST (ASTM D1557)" ALL TEST SHALL BE VERIFIED BY A SOILS ENGINEER CONCURRENT WITH GRADING AND BACKFILLING OPERATIONS. THE COMPACTED FILL SHALL BE FREE OF RUTTING AND SHALL BE NON-YEILDING AND NON PUMPING DURING PROOF ROLLING AND COMPACTION.
- 8.) ALL JOINTS SHALL BE GASKETED O-RINGS.

# STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

#### 1 INTRODUCTION

THIS STORMWATER POLLUTION PREVENTION PLAN IS FOR THE O'FALLON AUTO MALL SITE LOCATED IN O'FALLON, MISSOURI. THE SITE IS LOCATED ON THE WEST SIDE OF STATE HIGHWAY K NORTH OF THE INTERSECTION OF STATE HIGHWAY K AND HIGHWAY 40/64. (SEE LOCATION MAP)

### II SITE INFORMATION

- THE SOIL CONSISTS OF 10 TO 20 FEET OF SOFT TO STIFF, BROWN, SILTY CLAY. THE SOIL IN THE AREA IS IN THE HYDROLOGIC CATEGORY 'B' & 'C' ACCORDING TO THE SOIL CONSERVATION SERVICE'S SOIL SURVEY MAP FOR ST. CHARLES COUNTY.
- B: EXISTING RUN-OFF WATER QUALITY NO RUN-OFF WATER QUALITY IS AVAILABLE FOR THIS SITE.
- C: SURFACE WATERS AND RECEIVING WATERS THE SITE IS PART OF A WATERSHED THAT IS LOCATED NORTH OF TECHNOLOGY DRIVE. THE RUNOFF DRAINS FROM SOUTH TO NORTH AND LEAVES THE BY MEANS OF AN EXISTING UNAMED TRIBUTARY TO SHOTE CREEK. THE DRAINAGE IS PART OF THE DARDENNE CREEK WATERSHED.
- D: SITE AREA AND RUN-OFF COEFFICIENT THE TOTAL AREA TO BE CLEARED IS 33.34 ACRES. IT IS PLANNED TO CLEAR THIS PORTION OF THE PARCEL AT THIS TIME. THE RUN-OFF COEFFICIENT AFTER CONSTRUCTION IS COMPLETE AND GRASS COVER HAS BEEN ESTABLISHED WILL BE ABOUT 0.60. THE PRESENT COEFFICIENT IS ESTIMATED TO BE

#### III CONSTRUCTION ACTIVITY

A: THE PURPOSE OF THIS PROJECT IS TO CLEAR THE SITE FOR FUTURE DEVELOPMENT. SILTATION CONTROLS WILL BE INSTALLED AS INDICATED ON THE PLAN PRIOR TO CLEARING. AS THE DESIGNATED AREA HAS BEEN CLEARED, THE AREA WILL THEN BE SEEDED WITH WINTER WHEAT TO ESTABLISH A VEGETATIVE COVER RESISTANT TO EROSION.

### IV OFF-SITE VEHICLE TRACKING

A: STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVE STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEPT DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL TO OR FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPAULIN.

### V MAINTENANCE/INSPECTION PROCEDURES

THESE ARE THE INSPECTION AND MAINTENANCE PROCEDURES THAT SHALL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS.

- A: ALL CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE EACH WEEK AND FOLLOWING ANY STORM
- EVENT OF 0.5 INCHES OR MORE. B: ALL MEASURES SHALL BE MAINTAINED IN GOOD ORDER WITH NECESSARY REPAIRS INITIATED WITHIN 24
- HOURS OF REPORT. C: SEDIMENT ACCUMULATION SHALL BE CHECKED MONTHLY AND REMOVED IF THE ACCUMULATION EXCEEDS

## BEST MANAGEMENT PRACTICE:

CLEARING AND GRADING

ONCE EXISTING BUILDINGS AND PAVEMENT HAVE BEEN DEMOLISHED, THE DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A PROPER MANNER. PAVEMENT DEBRIS MAY BE USED AS FILL UNDER THE GUIDANCE OF THE GEOTECHNICAL ENGINEER.

- STORMWATER RUNOFF WILL BE DIRECTED TO A SILTATION CONTROL DEVICE SUCH AS A SILT FENCE. THIS DEVISE WILL BE MAINTAINED AS DIRECTED BY THE SWPPP
- ANY SILT LEAVING THE SITE SHALL BE CLEANED UP AND ANY DAMAGE CAUSED SHALL BE REPAIRED PROMPTLY. ALL VEHICLES LEAVING THE SITE WILL BE WASHED OF ALL MUD. SEE SHEET C3 FOR DESIGNATED WASH DOWN AREA. THE CONTRACTOR WILL MAINTAIN THIS WASH DOWN AREA AND EXCESSIVE MATERIAL WILL BE REMOVED ON A REGULAR BASIS. THE WASH DOWN AREA WILL NOT BE REMOVED UNTIL A PORTION OF NEW ONSITE PAVEMENT HAS BEEN ESTABLISHED FOR CONSTRUCTION PARKING.

ALL EXCAVATION SHALL CONFORM TO OSHA STANDARDS.

 ONCE WALL IS CONSTRUCTED A FENCE SHALL BE PLACED ALONG THE TOP OF WALL AS TO PREVENT BODILY INJURY.

ALL EXCAVATION SHALL CONFORM TO OSHA STANDARDS. ALL OPEN TRENCHES SHALL BE MARKED WITH A TEMPORARY BARRIER TO PREVENT BODILY INJURY.

ALL MATERIAL WASTE SHALL BE DISPOSED OF PROPERLY.

 ENSURE ALL WORKERS KNOW PROPER PROCEDURES. A DESIGNATED AREA FOR WASTE STORAGE SHALL BE IDENTIFIED ON SITE.

#### EQUIPMENT BATTERIES WILL BE STORED IN AN AREA PROTECTED FROM RAIN WATER. CONSTRUCTION MANAGEMENT

MAKE SURE ALL BMPs ARE FOLLOWED. OCCURRENCES NOT LISTED ABOVE SHALL BE HANDLED IN A MANNER AS TO PROTECT PEOPLE AND THE ENVIRONMENT

ENSURE ALL EMPLOYEES UNDERSTAND THE PROJECT SWPPP AND BMPs.

# VEGETATIVE ESTABLISHMENT FOR URBAN DEVELOPMENT SITES APPENDIX A

GRADED AREA THAT ARE TO REMAIN BARE FOR FOR OVER 6 MONTH SSHALL

BE SEEDED AND MULCHED AS DESCRIBED BELOW SEEDING RATES:

PERMANENT: TALL FESCUE - 30 lbs./ac. SMOOTH BROME - 20 lbs./ac.

COMBINED FESCUE @ 15 lbs./ac. AND BROME @ 10 lbs./ac. WHEAT OR RYE - 150 lbs./ac. (3.5 lbs. PER SQUARE FOOT)

- 120 lbs./ac. (2.75 lbs. PER SQUARE FOOT) SEEDING PERIODS:

FESCUE OR BROME - MARCH 1 TO JUNE 1 AUGUST 1 TO OCTOBER 1 WHEAT OR RYE - MARCH 15 TO NOVEMBER 1

- MARCH 15 TO SEPTEMBER 15 MULCH RATES: 100 lbs. PER 1,000 sq., FEET (4,356 lbs. PER ACRE)

FERTILIZER RATES; NITROGEN 30 lbs./ac. PHOSPHATE 30 lbs./cc. POTASSIUM 600 lbs./ac. ENM\*

 ENM = EFFECTIVE NEUTRALIZING MATERIAL AS PER STATE EVALUATION OF QUARRIED ROCK.

LEONARD J. MEERS NUMBER E-28288

2\ 05/23/05 PER CITY, WATER & SANITARY COMMENTS

CONSULTING ENGINEERS, INC.

# O'FALLON AUTO MALL SPECIFICATION SHEET

J. R. GRIMIES

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JLW 04/08/05 LJM 04/08/05

P&Z FILE # 3101.05.03