GENERAL NOTES

1.) ALL UTILITIES SHOWN HAVE BEEN LOCATED BY OTHERS FROM AVAILABLE RECORDS. THEIR LOCATION SHOULD BE CONSIDERED APPROXIMATE. THE CONTRACTOR HAS THE RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES, PRIOR TO CONSTRUCTION, TO HAVE EXISTING UTILITIES FIELD LOCATED.

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

3.) ALL MATERIALS AND METHODS OF CONSTRUCTION TO MEET THE CURRENT STANDARDS AND SPECIFICATIONS AS REQUIRED BY THE CITY OF O'FALLON.

4.) ALL GRADED AREAS INDICATED SHALL BE PROTECTED FROM EROSION BY EROSION CONTROL DEVICES, SEEDING AND MULCHING AS INDICATED.

5.) INSTALL SILTATION CONTROL PRIOR TO STARTING THE GRADING PER SILTATION SPECIFICATIONS. ADDITIONAL SILTATION CONTROL DEVICES MAY BE REQUIRED AS DIRECTED BY THE CITY OF O'FALLON.

6.) ALL FILLS AND BACK FILLS SHALL BE MADE OF SELECTED EARTH MATERIALS, FREE FROM BROKEN MASONRY, ROCK, FROZEN EARTH, RUBBISH, ORGANIC MATERIAL AND DEBRIS.

7.) GRADING CONTRACTOR SHALL KEEP EXISTING ROADWAYS CLEAN OF MUD AND DEBRIS AT ALL TIMES.

8.) NO GRADE SHALL EXCEED 3:1 SLOPE, OR AS APPROVED BY THE SOILS ENGINEER.

9.) ALL SLOPES TO BE STABILIZED IMMEDIATELY AFTER GRADING.

10.) THE EROSION CONTROL PLAN SHOULD BE IMPLEMENTED BEFORE GRADING BEGINS.

11.) EROSION CONTROL SHALL NOT BE LIMITED TO WHAT IS SHOWN ON THE PLAN.

12.) WHATEVER MEANS NECESSARY SHALL BE TAKEN TO PREVENT SILTATION AND EROSION FROM ENTERING NATURAL STREAMS AND ADJACENT ROADWAYS, PROPERTIES, AND DITCHES.

13.) TOPOGRAPHIC INFORMATION PROVIDED BY COLE & ASSOCIATES INC.

14.) SEEDING SHOULD OCCUR AS SOON AS GRADING IS COMPLETE.

15.) THE CITY OF O'FALLON RESERVES THE RIGHT TO REQUIRE ADDITIONAL EROSION CONTROL MEASURES IF THE PROPOSED MEASURES ARE DEEMED TO BE INADEQUATE OR NONEXISTENT.

16.) TOPSOIL SHOULD BE STOCKPILED AND REUSED. PROPER EROSION CONTROL OF THESE STOCKPILES SHOULD INCLUDE SEEDING AND STRAWING AND OTHER MEANS OF SEDIMENT CONTROL SUCH AS SILTATION FENCE AND STRAW BALES.

17.) THE SEDIMENT BASIN AND STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED. SEDIMENT SHALL BE REMOVED AND THE BASIN RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE 1 SEDIMENT HAS ACCUMULATED TO THE DESIGN DEPTH OF THE BASIN. REMOVED SEDIMENT SHALL BE DEPOSITED 2 IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.

18.) SEDIMENT BASIN CLEANOUT ELEVATION SHALL BE MARKED BY STAKES (MIN 3) PLACED IN THE BASIN MARKING THE CLEANOUT ELEVATION. STAKES SHALL BE REPLACED AS NEEDED TO BE INCLUDED IN SEDIMENT BASIN MAINTANCE.

19.) THIS TRACT IS LOCATED IN ZONE "X", OTHER AREAS DETERMINED TO BE OUTSIDE THE 500-YEAR FLOOD PLAIN, AND ZONE "AE", AREAS WITHIN THE 100-YEAR FLOOD PLAIN. INFORMATION FRON FLOOD INSURANCE MAP NO. 29183C0430E, EFFECTIVE DATE MAY 24, 2000

20.) CONTRACTOR MUST NOTIFY THE OFF-SITE PROPERTY OWNERS A MINIMUM OF 48 HOURS BEFORE COMMENCING CONSTRUCTION ON THEIR PROPERTIES. ANY DISTURBED OFF-SITE AREAS MUST BE RESTORED TO THEIR PRE-IMPROVED CONDITION.

21.) DEVELOPER MUST SUPPLY CITY CONSTRUCTION INSPECTORS WITH SOIL REPORTS PRIOR TO OR DURING SITE SOIL TESTING.

22.) TRAFFIC CONTROL IS TO BE PER MODOT OR MUTCD WHICHEVER IS MOST STRINGENT.

23.) ALL PROPOSED EASEMENTS SHALL BE SHOWN ON RECORD PLAT.

24.) RIP-RAP SHOWN AT FLARED ENDS WILL BE EVALUATED IN THE FIELD AFTER INSTALLATION FOR EFFECTIVENESS AND FIELD MODIFIED, IF NECESSARY, TO REDUSE EROSION ON AND OFF-SITE.

25.) TREES, ORGANIC DEBRIS, RUBBLE, FOUNDATIONS AND OTHER DELETERIOUS MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN COMPLIANCE WITH ALL APPLICABLE LAWS AND REGULATIONS.

NON-SEDIMENT POLLUTION CONTROL NOTES

1. HANDLING AND DISPOSAL OF HAZARDOUS MATERIALS
   DO: PREVENT SPILLS
   USE PRODUCTS UP
   FOLLOW LABEL DIRECTIONS FOR DISPOSAL
   REMOVE LIDS FROM EMPTY BOTTLES AND CANS WHEN DISPOSING IN TRASH
   RECYCLE WASTES WHENEVER POSSIBLE
   DON'T: DON'T POUR WASTE INTO SEWERS OR WATERWAYS ON THE GROUND
   DON'T POUR WASTE DOWN THE SINK, FLOOR DRAIN OR SEPTIC TANKS
   DON'T BURY CHEMICALS OR CONTAINERS, OR DISPOSE OF THEM WITH CONSTRUCTION DEBRIS
   DON'T BURN CHEMICALS OR CONTAINERS
   DON'T MIX CHEMICALS TOGETHER

2. CONTAINERS SHALL BE PROVIDED FOR COLLECTION OF ALL WASTE MATERIAL INCLUDING CONSTRUCTION DEBRIS, TRASH, PETROLEUM PRODUCTS AND ANY HAZARDOUS MATERIALS TO BE USED ONSITE. ALL WASTE MATERIAL SHALL BE DISPOSED OF AT FACILITIES APPROVED FOR THAT MATERIAL.

3. NO WASTE MATERIALS SHALL BE BURIED ON-SITE.

4. MIXING, PUMPING, TRANSFERRING OR OTHERWISE HANDLING CONSTRUCTION CHEMICALS SUCH AS FERTILIZER, LIME, ASPHALT, CONCRETE DRYING COMPOUNDS, AND ALL OTHER POTENTIALLY HAZARDOUS MATERIALS SHALL BE PERFORMED IN AN AREA AWAY FROM ANY WATERCOURSE, DITCH OR STORM DRAIN.

5. EQUIPMENT FUELING AND MAINTENANCE, OIL CHANGING, ETC., SHALL BE PERFORMED ONLY IN AN AREA DESIGNATED FOR THAT PURPOSE.THE DESIGNATED AREA IS EQUIPPED FOR RECYCLING OIL AND CATCHING SPILLS.

6. CONCRETE WASH WATER SHALL NOT BE ALLOWED TO FLOW DIRECTLY TO STORM SEWERS, STREAMS, DITCHES, LAKES, ETC. WITHOUT BEING TREATED. A SUMP OR PIT SHALL BE CONSTRUCTED TO CONTAIN CONCRETE WASH WATER.

7. IF SUBSTANCES SUCH AS OIL, DIESEL FUEL, HYDRAULIC FLUID, ANTIFREEZE, ETC. ARE SPILLED, LEAKED, OR RELEASED ONTO SOIL, THE SOIL SHALL BE DUG UP AND DISPOSED OF AT A LICENSED SANITARY LANDFILL (NOT A CONSTRUCTION/DEMOLITION DEBRIS LANDFILL). SPILLS ON PAVEMENT SHALL BE ABSORBED WITH SAWDUST, KITTY LITTER OR PRODUCT DESIGNED FOR THAT PURPOSE AND DISPOSED OF AT A LICENSED SANITARY LANDFILL. HAZARDOUS OR INDUSTRIAL WASTES SUCH AS MOST SOLVENTS, GASOLINE, OIL-BASED PAINTS, ANDCEMENT CURING COMPOUNDS REQUIRE SPECIAL HANDLING. THESE MATERIALS WILL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH MODNR REQUIREMENTS.

8. STATE LAW REQUIRES THE PARTY RESPONSIBLE FOR A PETROLEUM PRODUCT SPILL IN EXCESS OF 50 GALLONS TO REPORT THE SPILL TO MODNR (537-634-2436) AS SOON AS PRACTICAL AFTER DISCOVERY. FEDERAL LAW REQUIRES THE RESPONSIBLE PARTY TO REPORT ANY RELEASE OF OIL IF IT REACHES OR THREATENS A SEWER, LAKE, CREEK, STREAM, RIVER, GROUNDWATER, WETLAND, OR AREA, LIKE A ROAD DITCH, THAT DRAINS INTO ONE OF THE ABOVE

EARTHWORK

TOTAL AREA OF SITE: 8 Acres

ESTIMATED AREA TO BE DISTURBED: 7.08 Acres
ESTIMATED AREA TO BE DEVELOPED: 6.60 Acres

15% SHRINKAGE FACTOR
ESTIMATED GRADING QUANTITIES:

CUT VOLUME - 8.398 CUBIC YDS

FILL VOLUME - 19,239 CUBIC YDS

TOTAL SHORT - 10,841 CUBIC YDS
(SEE ATTACHED HAUL ROUTE)

THE ENGINEER HAS CALCULATED THE ABOVE QUANTITIES OF EARTHWORK TO BE REGARDED AS AN ESTIMATE OF THE BULK MOVEMENT OR REDISTRIBUTION OF SOILS ON THIS PROJECT. AS AN ESTIMATE, THESE QUANTITIES ARE INTENDED FOR GENERAL USE, AND THE ENGINEER ASSUMES NO LIABILITY FOR COST OVERRUNS DUE TO EXCESS EXCAVATED MATERIALS OR SHORTAGES OF THE QUANTITIES ESTIMATED FOR EACH OF THE IMPROVEMENT ITEMS LISTED ABOVE ARE BASED UPON THE HORIZONTAL AND VERTICAL LOCATION OF THE IMPROVEMENTS AS PROPOSED ON THE SITE ENGINEERING PLANS PREPARED BY COLE AND ASSOCIATES CONSULTING ENGINEERS. THE ENGINEER'S EARTHWORK ESTIMATE DOES NOT INCLUDE ANY OF THE FOLLOWING ITEMS REQUIRING EARTHWORK THAT MAY BE NECESSARY FOR COMPLETION OF THE PROJECT: MISCELLANEOUS UNDERGROUND CONDUITS, INCLUDING SEWER LINES AND WATER MAINS LESS THAN TWENTY-FOUR INCHES IN DIAMETER, STANDARD MANHOLES; PROCESS OR TRANSFER PIPING; ELECTRICAL OR TELEPHONE CONDUITS; BASES FOR LIGHT STANDARDS; BUILDING FOOTINGS AND FOUNDATIONS, STRIPPING OF TOPSOIL, ETC.. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACTUAL SIZE OF THE FIELD EXCAVATIONS MADE FOR THE INSTALLATION OF UNDERGROUND STRUCTURES, AND AS SUCH, THE ACTUAL QUANTITIES OF EARTHWORK FROM SUCH ITEMS MAY VARY FROM THE ESTIMATE SHOWN ABOVE. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR COSTS INCURRED DUE TO REMOVAL OF UNSUITABLE MATERIAL FROM SITE. THE ABOVE QUANTITIES ARE AN ESTIMATE AND SHOULD BE CONSIDERED AS SUCH. IT IS THE GRADING CONTRACTOR'S RESPONSIBILITY TO PREPARE A QUANTITY TAKEOFF AND NOTE ANY DISCREPANCIES TO THE ENGINEER.

GRADING/SEDIMENT & EROSION CONTROL NOTES

1) SEDIMENT AND EROSION CONTROL SHALL NOT BE LIMITED TO THE MEASURES SHOWN ON THE PLANS. THE CONTRACTOR, WITH THE APPROVAL OF THE CITY INSPECTOR, SHALL UTILIZE BEST MANAGEMENT PRACTICES TO PREVENT SEDIMENT FROM ENTERING ADJACENT PROPERTIES, ROADWAYS, STORM SEWERS, AND DRAINAGE WAYS.

2) ALL FILLED PLACES UNDER PROPOSED STORM AND SANITARY SEWER LINES AND/OR PAVED AREAS INCLUDING TRENCH BACKFILLS WITHIN AND OFF THE ROAD RIGHT-OF-WAY SHALL BE COMPACTED TO 95 PERCENT OF MAXIMUM DENSITY AS DETERMINED BY THE "MODIFIED AASHTO T-180 COMPACTION TEST" (ASTM D-1557). ALL TESTS SHALL BE VERIFIED BY A SOILS ENGINEER CONCURRENT WITH GRADING AND BACKFILLING OPERATIONS.

3) ALL FILLED PLACES IN PROPOSED ROADS (HIGHWAYS) SHALL BE COMPACTED FROM THE BOTTOM OF THE FILL UP TO 95 PERCENT MAXIMUM DENSITY AS DETERMINED BY THE "MODIFIED AASHTO T-180 COMPACTION TEST" (ASTMD-1557). PAVED AREAS IN CUTS SHALL MEET THE SAME COMPACTION REQUIREMENTS. ALL TESTS SHALL BE VERIFIED BY A SOILS ENGINEER CONCURRENT WITH GRADING OPERATIONS.

4) ANY WELLS AND/OR SPRINGS WHICH MAY EXIST ON THIS PROPERTY SHOULD BE LOCATED AND SEALED IN A MANNER ACCEPTABLE TO CITY OF O'FALLON CONSTRUCTION INSPECTION DEPARTMENT.

5) ALL TRASH AND DEBRIS ON-SITE, EITHER EXISTING CONSTRUCTION, MUST BE REMOVED AND PROPERLY DISPOSED OF OFF-SITE.

6) DEBRIS AND FOUNDATION MATERIAL FROM ANY EXISTING ON-SITE BUILDING OR STRUCTURE WHICH IS SCHEDULED TO BE RAZED FOR THIS DEVELOPMENT MUST BE PROPERLY DISPOSED OF OFF-SITE.

7) SOFT SOILS IN THE BOTTOM AND BANKS OF ANY EXISTING OR FORMER POND SITES OR TRIBUTARIES OR ANY SEDIMENT BASINS OR TRAPS SHOULD BE REMOVED, SPREAD OUT AND PERMITTED TO DRY SUFFICIENTLY TO BE USED AS FILL. NONE OF THIS MATERIAL SHOULD BE PLACED IN PROPOSED PUBLIC RIGHT-OF-WAY LOCATIONS OR ON ANY STORM SEWER LOCATION.

8) A PRE-CONSTRUCTION CONFERENCE MUST BE SCHEDULED WITH THE CONSTRUCTION INSPECTION MANAGER PRIOR TO THE START OF EACH CONSTRUCTION PHASE OF LAND DISTURBANCE ACTIVITY. THE PERMITEE WILL BE RESPONSIBLE FOR NOTIFYING ALL CONTRACTORS, UTILITY CREWS, AND OTHER ENTITIES THAT WILL PERFORM WORK AT THE SITE TO BE IN ATTENDANCE.

9) PLEASE NOTIFY THE CITY A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF CLEARING, GRADING, AND/OR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION TO ARRANGE FOR AN INSPECTION OF THE SITE.

10) ALL EXCAVATIONS, GRADING OR FILLING SHALL HAVE FINISHED GRADE NOT TO EXCEED A 3:1 SLOPE, OR AS APPROVED BY THE SOILS ENGINEER.

11) TEMPORARY SILTATION CONTROL MEASURES (STRUCTURAL) SHALL BE MAINTAINED UNTIL VEGETATIVE COVER IS ESTABLISHED AT A SUFFICIENT DENSITY TO PROVIDE EROSION CONTROL ON THE SITE.

11) UPON COMPLETION OF STORM SEWERS, SILTATION CONTROL SHALL BE PROVIDED AROUND ALL OPEN SEWER INLETS AND SHALL REMAIN UNTIL THE DISTRIBUTED DRAINAGE AREAS HAVE BEEN PROPERLY STABILIZED.

12) WHERE NATURAL VEGETATION IS REMOVED DURING GRADING, VEGETATION, SHALL BE REESTABLISHED IN SUCH A DENSITY AS TO PREVENT EROSION.

13) WHEN MECHANIZED LAND CLEARING ACTIVITIES ARE COMPLETED OR SUSPENDED FOR MORE THAN 2 WEEKS, EITHER TEMPORARY VEGETATION MUST BE ESTABLISHED OR TEMPORARY SILTATION CONTROL MEASURES MUST BE PUT IN PLACE WITH THE REVIEW AND APPROVAL OF THE CITY ENGINEER.

14) WHEN GRADING OPERATIONS ARE COMPLETED OR SUSPENDED FOR MORE THAN 2 WEEKS, PERMANENT GRASS MUST BE ESTABLISHED AT SUFFICIENT DENSITY TO PROVIDE EROSION CONTROL ON THE SITE. BETWEEN PERMANENT GRASS SEEDING PERIODS, TEMPORARY COVER SHALL BE PROVIDED ACCORDING TO THE RECOMMENDATION OF THE CITY ENGINEER.

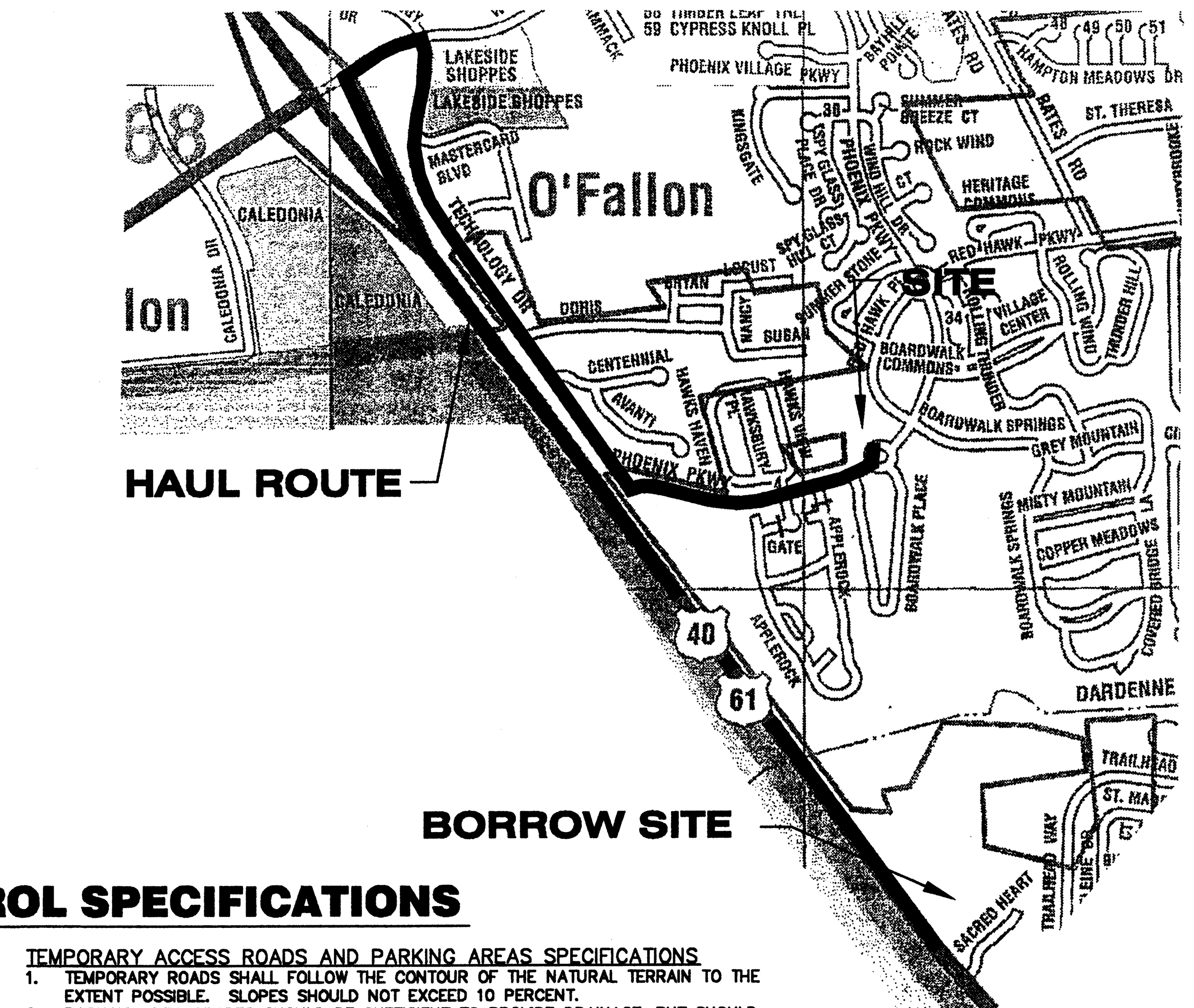
15) ALL FINISHED GRADES (AREAS NOT TO BE DISTURBED BY FUTURE IMPROVEMENT) IN EXCESS OF 20% SLOPES (5:1) SHALL BE MULCHED AND TACKED AT THE RATE OF 100 POUNDS PER 1,000 SQUARE FEET WHEN SEEDED.

16) ALL LOTS SHALL BE SEEDED AND MULCHED AT THE MINIMUM RATES DEFINED IN THE ST. CHARLES COUNTY SOIL AND WATER CONSERVATION DISTRICT GUIDELINES OR SODDED BEFORE AN OCCUPANCY PERMIT MAY BE ISSUED BY THE CITY IN CASES OF UNDUE HARDSHIP BECAUSE OF FAVORABLE GROUND CONDITIONS.

17) 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 THIER 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.

18) 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.

19) ALL LOW PLACES EITHER ON-SITE OR OFF-SITE SHALL BE GRADED TO ALLOW DRAINAGE.



SILTATION CONTROL SPECIFICATIONS

SILTATION CONTROL GENERAL NOTES

1. INSTALLATION OF ALL PERIMETER SEDIMENT CONTROL SHALL BE IMPLEMENTED PRIOR TO CLEARING, GRUBBING, OR GRADING.
2. INSPECTION OF SILTATION CONTROL DEVICES SHALL TAKE PLACE ONCE EVERY SEVEN DAYS AND WITHIN 24 HOURS OF ANY RAIN EVENT. ANY SILTATION CONTROL IN NEED OF REPAIR SHALL BE ADDRESSED A COPY OF THE INSPECTION REPORT SHALL BE KEPT ON THE CONSTRUCTION SITE.
3. ALL SWALES OR DRAINAGE CHANNELS, WITHIN 60 DAYS OF ESTABLISHMENT, SHALL BE SODDED 12" ABOVE 100-YR STORM EVENT OR OVERFLOW ELEVATION. WITHIN AN ADDITIONAL SEVEN (7) DAYS. THE REMAINDER OF THE SITE SHALL BE SEEDED AND MULCHED PER SPECIFICATIONS.
4. INLET PROTECTION SHALL BE INSTALLED AROUND EACH OPEN STORM SEWER AS SOON AS STRUCTURE CNSTRUCTION IS COMPLETED AND AS DIRECTED BY CITY OF O'FALLON.
5. ALL SILTATION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL UPSLOPE AREAS HAVE BEEN PERMANENTLY STABILIZED WITH VEGETATION.

SILTATION CONTROL SCHEDULE IMPLEMENTATION

1. CONTRACTOR SHALL INSTALL PERIMETER SILTATION CONTROL DEVICES AS SHOWN ON THE PLAN, PER ATTACHED SPECIFICATIONS.
2. AFTER ALL CLEARING, GRUBBING, AND EROSION CONTROL MEASURES ARE IN PLACE, GRADING AND UTILITY INSTALLATION CAN BEGIN.
3. CONTRACTOR SHALL INSTALL INLET PROTECTION, AS IDENTIFIED IN THE PLANS, AROUND EACH STORM SEWER STRUCTURE AS IT IS COMPLETED.
4. AREAS THAT ARE TO BE PERMANENTLY SEEDED SHALL RECEIVE STABILIZATION WITHIN 48 HOURS OF REACHING FINAL GRADE.
5. SEDIMENT SHALL BE REMOVED FROM THE DETENTION BASINS WHEN APPROXIMATELY ONE-HALF OF THE STORAGE VOLUME HAS BEEN FILLED, BUT IN NO CASE LESS THAN ONCE EVERY WEEK.
6. SEDIMENT SHALL BE REMOVED FROM BEHIND SEDIMENT CONTROL DEVICES WHEN THE DEPTH OF SEDIMENT REACHES HALF THE HEIGHT OF THE SILTATION CONTROL DEVICE OR 12", WHICHEVER IS LESS, AS MEASURED FROM THE NATURAL GROUND. THE SEDIMENT CONTROL DEVICES SHALL BE REPAIRED, AS REQUIRED.

INLET PROTECTION

1. INLET PROTECTION SHALL CONSIST OF FURNISHING, PLACING, MAINTAINING, AND REMOVING THE GUTTERBUDDY SEDIMENT CONTROL DEVICE OR APPROVED EQUAL AS DIRECTED BY THE ENGINEER AND AS SHOWN ON THE GRADING/SWPPP DRAWINGS.
2. THE GUTTERBUDDY SHALL BE SYNTHETIC FILTER MATERIAL MANUFACTURED FROM RECYCLED SYNTHETIC FIBERS.
3. THE GUTTERBUDDY WILL BE MANUFACTURED TO BE 9" IN DIAMETER AND ARE AVAILABLE IN 4', 6', 8', 10', 12', 14', AND 16' LENGTHS AND A MINIMUM OF 24 INCHES LONGER THAN THE CURB INLET OPENING. THIS WILL ALLOW FOR SUFFICIENT LENTH TO COVER THE INLET WITH 12 INCHES BEYONDTHE INLET ON BOTH ENDS.
4. INSTALL THE GUTTERBUDDY IN FRONT OF THE CURB INLET OPENING. EACH END OF THE GUTTERBUDDY SHOULD OVERLAP THE CURB INLET APPROXIMATELY 12"
5. THE GUTTERBUDDY SHOULD BE CLEANED IF A VISUAL INSPECTION SHOWS SILT AND DEBRIS BUILD UP AROUND THE GUTTERBUDDY.

TEMPORARY ACCESS ROADS AND PARKING AREAS SPECIFICATIONS

1. TEMPORARY ROADS SHALL FOLLOW THE CONTOUR OF THE NATURAL TERRAIN TO THE EXTENT POSSIBLE. SLOPES SHOULD NOT EXCEED 10 PERCENT.
2. PARKING AREA GRADES SHOULD BE SUFFICIENT TO PROVIDE DRAINAGE, BUT SHOULD NOT EXCEED 4 PERCENT.
3. ROADBEDS SHALL BE AT LEAST 14 FEET WIDE FOR ONE-WAY TRAFFIC AND 24 FEET WIDE FOR TWO-WAY TRAFFIC. TWO-WAY TRAFFIC WIDTHS SHALL BE INCREASED A MINIMUM OF 4 FEET FOR TRAILER TRAFFIC. DEPENDING ON THE TYPE OF VEHICLES OR EQUIPMENT, SPEED, LOADS, CLIMATIC, AND OTHER CONDITIONS UNDER WHICH VEHICLES AND EQUIPMENT OPERATE AN INCREASE IN THE MINIMUM WIDTH MAY BE REQUIRED BY CITY OF O'FALLON.
4. ALL CUTS AND FILLS SHALL BE 3:1 OR FLATTER TO THE EXTENT POSSIBLE.
5. DRAINAGE DITCHES SHALL BE PROVIDED AS NEEDED.
6. THE ROADBED OR PARKING SURFACE SHALL BE CLEARED OF ALL VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.

MAINTENANCE

SEEDED AREAS ADJACENT TO THE ROADS AND PARKING AREAS SHOULD BE CHECKED PERIODICALLY TO ENSURE THAT A VIGOROUS STAND OF VEGETATION IS MAINTAINED. ROADSIDE DITCHES SHALL BE SODDED AND OTHER DRAINAGE STRUCTURES SHOULD BE CHECKED REGULARLY TO ENSURE THAT THEY DO NOT BECOME CLOGGED WITH SILT OR OTHER DEBRIS.

CHANNEL FLOW APPLICATIONS:

1. CHECK DAMS ARE TO BE CONSTRUCTED OF ROCK, SAND BAGS, OR GRAVEL BAGS.
2. THE TOP OF THE DOWNSTREAM CHECK DAM SHOULD BE LEVEL WITH THE BASE OF THE UPSTREAM CHECK DAM.
3. CONSTRUCT CHECK DAMS IN ACCORDANCE WITH THE DETAILS PROVIDED AND CITY OF O'FALLON REQUIREMENTS.

SHEET FLOW APPLICATIONS:

1. SILT FENCES SHALL BE USED ON ALL SHEET FLOW CONDITIONS.
2. SILT FENCE TO BE WOVEN GEOTEXTILE FABRIC MIRAFI 100X OR EQUAL OVER 9 GAUGE, 6"x6" WIRE MESH.
3. FABRIC TO BE SUPPORTED 2"x2" CONSTRUCTION GRADE LUMBER, 4' LONG, ON 10' CENTERS.
4. FABRIC SHALL BE ENTRENCHED AND BACKFILLED. A TRENCH SHALL BE EXCAVATED A MINIMUM OF 6 INCHES DEEP FOR THE LENGTH OF THE FENCE. THE EXCAVATED SOIL SHALL BE BACKFILLED AGAINST THE FENCE.
5. FENCE HEIGHT SHALL BE A MINIMUM OF 2 FEET IN HEIGHT, WITH THE FABRIC INSTALLED ON THE FENCE ON THE UPSTREAM SIDE.

TABLE 2: SEEDING REQUIREMENTS

SEEDING REQUIREMENTS

Dates for Seeding

Permanent Seeding	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Tall Fescue			O	O	O			O	O			
Smooth Brome			O	O	O			O	O			
Fescue & Brome			O	O	O	O		O	O			
Fescue, Rye & Bluegrass	A	A	O	O	O	P	P	O	O	P	P	A

Temporary Seeding	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Rye or Sudan	A	A	O	O	O	O	O	O	O	O	A	A
Oats		A	O	O	O	O	O	O	O			

O= Optimum seeding dates
A= Acceptable seeding dates
P= Permitted seeding dates with reseeding 2 months later - Initially use 50% of seed and 75% of fertilizer. Reseed with additional 75% seed and remaining fertilizer.

Minimum Fertilizer and Seeding Rates

Permanent Seeding*	[illegible]	[illegible]
Tall Fescue	300	7.0
Smooth Brome	200	4.6
Mixture # 1	250	5.7
Mixture # 2	210	4.8

Mixture # 1 = Tall Fescue @ 150 pounds per acre and Brome @ 100 pounds per acre.
Mixture # 2 = Tall Fescue @ 100 pounds per acre; Perennial Rye grass @ 100 pounds per acre; and Kentucky Blue grass @ 10 pounds per acre.
* = Seeding rate for slopes in excess of 20% (5:1), shall be 10 pounds per 1000 sq. ft.

Temporary Seeding	[illegible]	[illegible]
Rye or Sudan	150	3.5
Oats	200	2.5

Fertilizer	[illegible]	[illegible]
Nitrogen	45	30
Phosphate	65	30
Potassium	65	30
Lime - ENM	600	600

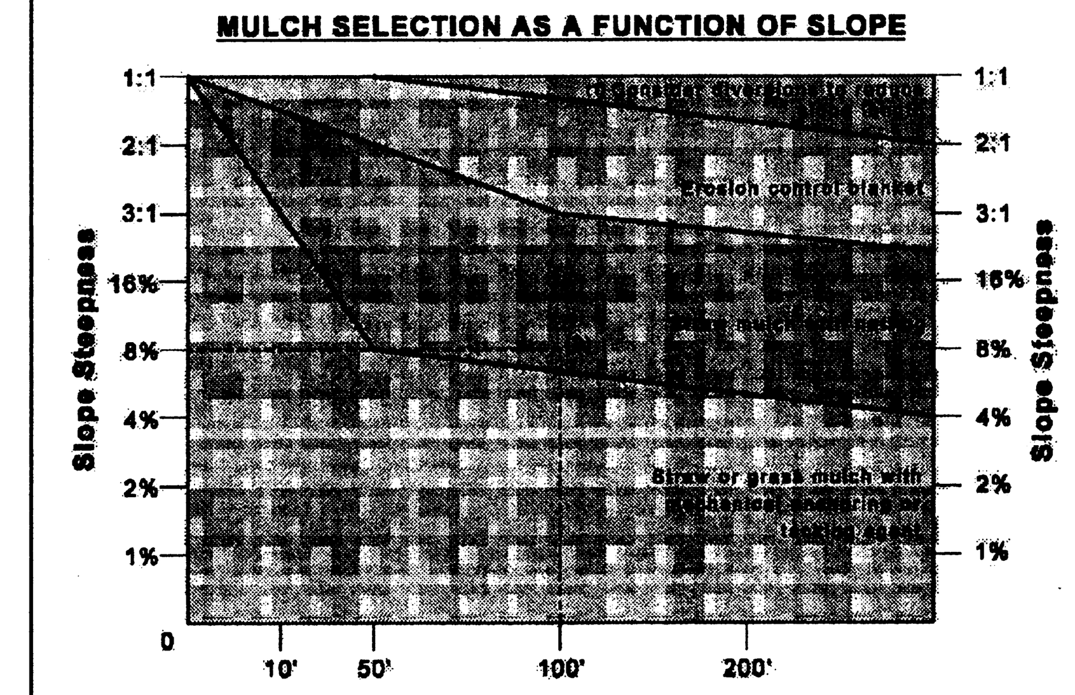
ENM = Effective neutralizing material per State evaluation of quarried rock.

3/1/2006 26 *Sediment and Erosion Control Manual*

TABLE 3: MULCH SCHEDULE

EROSION CONTROL
TEMPORARY

MULCH SELECTION AS A FUNCTION OF SLOPE



(1) For slopes steeper than 1:1, consider building a diversion above slope to divert water.
(2) Example: An 8% slope, 100 feet long, requires straw mulch with netting

GENERAL MULCH RECOMMENDATIONS TO PROTECT FROM SPLASH AND SHEET FLOW

Material	Rate Per Acre	Requirements	Notes
Straw	2 to 2.5 tons	Dry, unchopped unweathered; avoid weeds	Spread by hand or machine; must be tacked or tied down
Wood Fiber or Wood Cellulose	0.5 to 1 ton		Use with hydro seeder; may be used to tack straw. Do not use in hot, dry weather.
Wood Chips	5 to 6 tons	Air dry. Add nitrogen fertilizer at 12 lb per ton	Apply with blower, chip handler, or by hand. Not for fine turf areas.
Bark	35 cu. yds.	Air dry, shredded, or hammermilled; or chips	Apply with mulch blower, chip handler or by hand. Do not use asphalt tack.

REVISIONS

DATE	DESC.
11/19/2007	CITY OF O'FALLON COMMENTS
12/12/2007	CITY OF O'FALLON COMMENTS
02/01/2008	CITY OF O'FALLON COMMENTS
02/25/2008	CITY OF O'FALLON COMMENTS
03/07/2008	CITY OF O'FALLON COMMENTS

DEVELOPER/OWNER:
MCEAGLE DEVELOPMENT
1001 BOARDWALK SPRINGS PL
O'FALLON, MO 63366
PHONE: (636) 561-9323

THE PROFESSIONAL, WHOSE SIGNATURE AND PERSONAL SEAL APPEAR HEREON ASSUMES RESPONSIBILITY ONLY FOR WHAT APPEARS ON THIS PAGE, AND DISCLAIMS (PURSUANT TO SECTION 327, 411 RSMo) ANY RESPONSIBILITY FOR ALL OTHER PLANS, SPECIFICATIONS, ESTIMATES, REPORTS, OR OTHER DOCUMENTS OR INSTRUMENTS NOT SEALED BY THE UNDERSIGNED PROFESSIONAL RELATING TO, OR INTENDED TO BE USED FOR, ANY PART OR PARTS OF THE PROJECT TO WHICH THIS PAGE REFERS.

SEAL: STATE OF MISSOURI — MATTHEW R. KOESTERER — NUMBER PE-2007034893 — PROFESSIONAL ENGINEER — 3/10/08

PARK AVENUE VILLAGE
MASS GRADING PLANS
PHOENIX PARKWAY
O'FALLON, MO

SPECIFICATION SHEET

planning • engineering • surveying • landscape architecture
Cole and ASSOCIATES INCORPORATED
10777 sunset office drive
saint louis, missouri 63127
p: 314 984 9887 f: 314 984 0587

PLANNING AND DEVELOPMENT DEPARTMENT FILE #9831.57 (AREA PLAN-APPROVED MAY 24TH, ORDINANCE #5178) - 9831.57.01 (FINAL PLAN)

DESIGNED BY CJB
DRAWN BY CJB
CHECKED BY TDB
DATE 8/17/07
Job Number 07-075
Sheet Number G2.0

LAYOUT: G2.0
DATE: Mar 07, 2008 - 4:45pm
DRAWING: S:\JOBS\Jobs2007\07-0075_C07-0075\dwg\MASS GRADING PLANS\0_GPLAN_G2.0 SPEC.dwg