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

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

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

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.

B) 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, EXCEPT THAT A TEMPORARY OCCUPANCY PERMIT MAY BE ISSUED BY THE BUILDING DEPARTMENT IN CASES OF UNDUE HARDSHIP BECAUSE OF UNFAVORABLE 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 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.

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.

SILTATION CONTROL SPECIFICATIONS

SILTATION CONTROL GENERAL NOTES

I. 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.

CONTROL DEVICES SHALL BE REPAIRED, AS REQUIRED.

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 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

. 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.

PARKING AREA GRADES SHOULD BE SUFFICIENT TO PROVIDE DRAINAGE, BUT SHOULD NOT EXCEED 4 PERCENT. 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

ALL CUTS AND FILLS SHALL BE 3:1 OR FLATTER TO THE EXTENT POSSIBLE. DRAINAGE DITCHES SHALL BE PROVIDED AS NEEDED.

AND EQUIPMENT OPERATE AN INCREASE IN THE MINIMUM WIDTH MAY BE REQUIRED BY

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

CHECK DAMS ARE TO BE CONSTRUCTED OF ROCK, SAND BAGS, OR GRAVEL BAGS. THE TOP OF THE DOWNSTREAM CHECK DAM SHOULD BE LEVEL WITH THE BASE OF THE

3. CONSTRUCT CHECK DAMS IN ACCORDANCE WITH THE DETAILS PROVIDED AND

CITY OF O'FALLON REQUIREMENTS.

SHEET FLOW APPLICATIONS:

SILT FENCES SHALL BE USED ON ALL SHEET FLOW CONDITIONS. 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.

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.

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

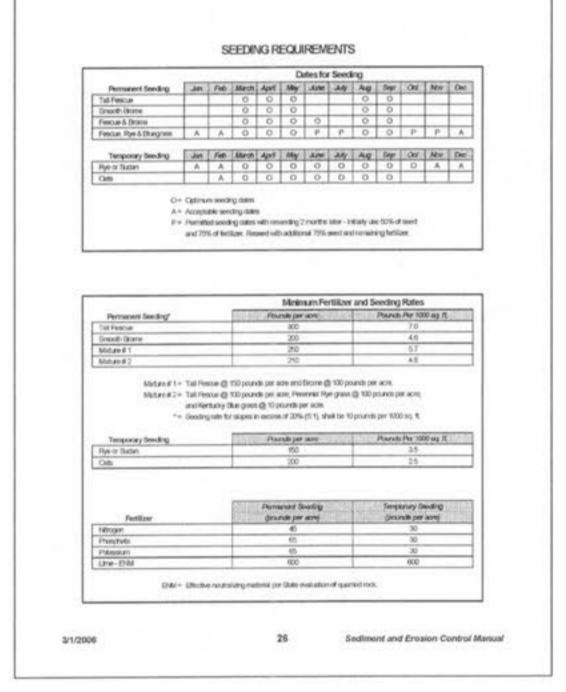
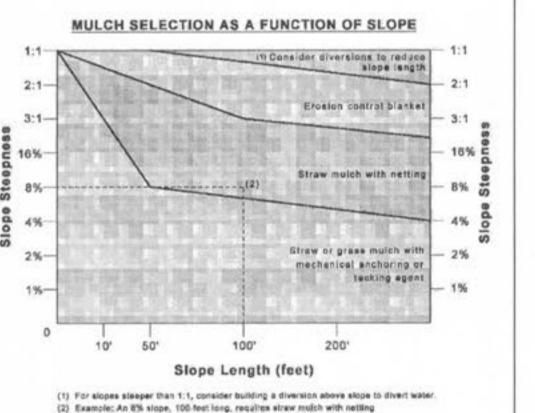


TABLE 3: MULCH SCHEDULE



(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	figlas
raw.	2 to 2.5 tons	Dry, unchapped unweathered; avoid weeds	Spread by hand or machine; must be lacked or field down
ood Fiber or ood Cellulose	0.5 to 1 tos		Lise with hydro eleder, may be used to lack strew. Do not see in hot, dry weather.
od Chips	6 to 6 tons	Air dry. Add nitrogen fortilizer at 12 lb per ton	Apply with blower, chip headler, or by hand. Not for fine tard areas.
rk	35 cu. yds.	Air dry, shredded, or hammormilled; or chips	Apply with mulch blower, only handler or by hand. Do not use asphalt teck.

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