

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 DRAINAGEWAYS.
- 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. ALL TESTS SHALL BE SUPPLIED TO THE CITY OF O'FALLON IN A TIMELY MANNER.
- 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" (ASTM D-1557). PAVED AREAS IN CUTS SHALL MEET THE SAME COMPACTION REQUIREMENTS. ALL TESTS SHALL BE VERIFIED BY A SOILS ENGINEER CONCURRENT WITH GRADING OPERATIONS. ALL TESTS SHALL BE SUPPLIED TO THE CITY OF O'FALLON IN A TIMELY MANNER.
- 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 GEOTECHNICAL 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.
- 12) 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.
- 13) WHERE NATURAL VEGETATION IS REMOVED DURING GRADING, VEGETATION SHALL BE REESTABLISHED IN SUCH A DENSITY AS TO PREVENT EROSION.
- 14) GRADED AREAS SHALL BE SEEDED AND MULCHED (STRAWED) WITHIN 2 WEEKS OF STOPPING LAND DISTURBANCE ACTIVITIES. VEGETATION GROWTH SHALL BE ESTABLISHED WITHIN 6 WEEKS OF GRADING WORK BEING STOPPED OR COMPLETED IN ANY AREA. VEGETATION GROWTH SHALL BE SUFFICIENT TO PREVENT EROSION (70% COVERAGE PER SQUARE FOOT) AS REQUIRED BY MDNR AND EPA. (ORDINANCE #5242-SECTION 405.070)
- 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 PERMITEE SHALL ASSUME COMPLETE RESPONSIBILITY FOR CONTROLLING ALL SILTATION AND EROSION OF THE PROJECT AREA. THE PERMITEE 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 CLEARING OPERATIONS AND BE MAINTAINED THROUGHOUT THE PROJECT UNTIL ACCEPTANCE OF THE WORK BY THE CITY OF O'FALLON AND AS NECESSARY BY MODOT. THE PERMITEE'S RESPONSIBILITIES SHALL INCLUDE ALL DESIGN AND IMPLEMENTATION AS REQUIRED TO PREVENT EROSION AND THE DEPOSITING OF SILT. THE CITY OF O'FALLON AND AS REQUIRED BY MODOT MAY AT THEIR OPTION DIRECT THE PERMITEE 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 CITY OF O'FALLON AND AS REQUIRED BY MODOT.
- 18) ALL EROSION CONTROL SYSTEMS ARE INSPECTED AND CORRECTED WEEKLY, ESPECIALLY WITHIN 48 HOURS OF ANY RAINSTORM RESULTING IN ONE-HALF INCH OF RAIN OR MORE. ANY SILT OR DEBRIS LEAVING THE SITE AND AFFECTING PUBLIC RIGHTS-OF-WAYS OR STORM WATER DRAINAGE FACILITIES SHALL BE CLEANED UP WITHIN 24 HOURS AFTER THE END OF THE STORM.

LAND DESCRIPTIONS

DOYLE TRACT

A TRACT OF LAND BEING PART OF U.S. SURVEY 931, LOCATED IN TOWNSHIP 46 NORTH, RANGE 2 EAST, ST. CHARLES COUNTY, MISSOURI AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE INTERSECTION OF THE WEST LINE OF LAND NOW OR FORMERLY OF THE RHODES FAMILY FARM, INC. AS RECORDED BY DEED IN BOOK 2617, PAGE 1 OF THE ST. CHARLES COUNTY, MISSOURI RECORDER'S OFFICE WITH THE SOUTH LINE OF THE AFOREMENTIONED U.S. SURVEY 931;

THENCE ALONG SAID SOUTH LINE, SOUTH 82 DEGREES 14 MINUTES 19 SECONDS EAST, A DISTANCE OF 937.49 FEET TO THE EAST LINE OF SAID RHODES LAND, ALSO BEING THE TRUE POINT OF BEGINNING OF THE HEREINAFTER DESCRIBED DOYLE TRACT;

THENCE ALONG SAID EAST LINE NORTH 07 DEGREES 48 MINUTES 50 SECONDS EAST, A DISTANCE OF 2533.37 FEET TO THE SOUTH LINE OF BRIARCHASE ADDITION, A SUBDIVISION AS RECORDED IN PLAT BOOK 41, PAGES 200 THROUGH 203 OF SAID RECORDER'S OFFICE;

THENCE ALONG SAID SOUTH LINE AND THE SOUTH LINE OF LAND NOW OR FORMERLY OF CMB RHODES, L.L.C. AS RECORDED BY DEED IN BOOK 4160, PAGE 471 OF SAID RECORDER'S OFFICE AND THE SOUTH LINE OF LAND NOW OR FORMERLY OF CMB RHODES, L.L.C. AS RECORDED BY DEED IN BOOK 4195, PAGE 1368 OF SAID RECORDER'S OFFICE, SOUTH 81 DEGREES 57 MINUTES 38 SECONDS EAST, A DISTANCE OF 1130.28 FEET TO THE WEST LINE OF FOX WOOD ESTATES PLAT ONE, A SUBDIVISION AS RECORDED IN PLAT BOOK 19, PAGE 175 OF SAID RECORDER'S OFFICE;

THENCE ALONG SAID WEST LINE AND THE WEST LINE OF FOX WOOD ESTATES PLAT THREE, A SUBDIVISION AS RECORDED IN PLAT BOOK 21, PAGE 41 OF SAID RECORDER'S OFFICE, SOUTH 07 DEGREES 34 MINUTES 03 SECONDS WEST, A DISTANCE OF 2009.42 FEET TO THE NORTH LINE OF LAND NOW OR FORMERLY OF DORRIS O. SCHIERBAUM, AS RECORDED BY DEED IN BOOK 981, PAGE 655 OF SAID RECORDER'S OFFICE;

THENCE ALONG SAID NORTH LINE, NORTH 81 DEGREES 28 MINUTES 10 SECONDS WEST, A DISTANCE OF 52.41 FEET TO THE NORTHWEST CORNER, THEREOF;

THENCE ALONG THE WEST LINE OF SAID SCHIERBAUM LAND, SOUTH 07 DEGREES 34 MINUTES 03 SECONDS WEST, A DISTANCE OF 519.18 FEET TO THE SOUTH LINE OF THE AFOREMENTIONED U.S. SURVEY 931;

THENCE ALONG SAID SOUTH LINE, NORTH 82 DEGREES 14 MINUTES 19 SECONDS WEST, A DISTANCE OF 1088.75 FEET TO THE TRUE POINT OF BEGINNING.

THE ABOVE DESCRIBED TRACT OF LAND CONTAINING 65.354 ACRES IS BASED UPON AN ACTUAL BOUNDARY SURVEY COMPLETED BY COLE AND ASSOCIATES, INC. DURING THE MONTH OF NOVEMBER 2005 AND IS SUBJECT TO ALL EASEMENTS, RESTRICTIONS, RESERVATIONS AND CONDITIONS OF RECORD, IF ANY.

RHODES TRACT

A TRACT OF LAND BEING PART OF U.S. SURVEY 931, LOCATED IN TOWNSHIP 46 NORTH, RANGE 2 EAST, ST. CHARLES COUNTY, MISSOURI AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF THE SOUTH LINE OF THE AFOREMENTIONED U.S. SURVEY 931 WITH OF THE EAST LINE OF LAND NOW OR FORMERLY OF DONALD & MARIANNE MOLLISON, AS RECORDED BY DEED IN BOOK 1872, PAGE 771 OF THE ST. CHARLES COUNTY, MISSOURI RECORDER'S OFFICE;

THENCE ALONG SAID EAST LINE AND THE NORTHERN PROLONGATION OF SAID EAST LINE ALONG WITH THE EAST LINE OF LAND NOW OR FORMERLY OF R. STEPHEN & CATHERINE M. BARNETT, AS RECORDED BY DEED IN BOOK 1874, PAGE 1123 OF SAID RECORDER'S OFFICE, NORTH 07 DEGREES 41 MINUTES 13 SECONDS EAST, A DISTANCE OF 4770.81 FEET TO THE SOUTH LINE OF BRIARCHASE PLAT ONE, A SUBDIVISION AS RECORDED IN PLAT BOOK 40, PAGES 72 THROUGH 75 OF SAID RECORDER'S OFFICE;

THENCE ALONG SAID SOUTH LINE AND THE SOUTH LINE OF BRIARCHASE PLAT TWO, A SUBDIVISION AS RECORDED IN PLAT BOOK 41, PAGE 275 & 276 OF SAID RECORDER'S OFFICE, SOUTH 81 DEGREES 24 MINUTES 19 SECONDS EAST, A DISTANCE OF 321.70 FEET;

THENCE CONTINUING ALONG SAID SOUTH LINE, SOUTH 83 DEGREES 03 MINUTES 15 SECONDS EAST, A DISTANCE OF 625.07 FEET TO THE WEST LINE OF BRIARCHASE ADDITION, A SUBDIVISION AS RECORDED IN PLAT BOOK 41, PAGES 200 THROUGH 203 OF SAID RECORDER'S OFFICE;

THENCE ALONG SAID WEST LINE SOUTH 07 DEGREES 48 MINUTES 42 SECONDS WEST, A DISTANCE OF 2241.65 FEET TO THE WEST LINE OF LAND NOW OR FORMERLY OF DOYLE FAMILY PROPERTIES, L.L.C. AS RECORDED BY DEED IN BOOK 3323, PAGE 1051 OF SAID RECORDER'S OFFICE;

THENCE ALONG SAID WEST LINE SOUTH 07 DEGREES 48 MINUTES 50 SECONDS WEST, A DISTANCE OF 2533.37 FEET TO THE SOUTH LINE OF THE AFOREMENTIONED U.S. SURVEY 931;

THENCE ALONG SAID SOUTH LINE NORTH 82 DEGREES 14 MINUTES 19 SECONDS WEST, A DISTANCE OF 937.49 FEET TO THE POINT OF BEGINNING.

THE ABOVE DESCRIBED TRACT OF LAND CONTAINING 103.198 ACRES IS BASED UPON AN ACTUAL BOUNDARY SURVEY COMPLETED BY COLE AND ASSOCIATES, INC. DURING THE MONTH OF NOVEMBER 2005 AND IS SUBJECT TO ALL EASEMENTS, RESTRICTIONS, RESERVATIONS AND CONDITIONS OF RECORD, IF ANY.

STORM SEWER NOTES

- 1.) ALL CONCRETE PIPE SHALL BE REINFORCED, AND CONFORM TO A.S.T.M. DESIGNATION C76 CLASS II UNLESS OTHERWISE NOTED.
- 2.) ALL STORM SEWER STRUCTURES WITHIN PROJECT SITE TO BE CONSTRUCTED IN ACCORDANCE WITH CITY OF O'FALLON STORMWATER MANAGEMENT CONSTRUCTION SPECIFICATIONS.
- 3.) ALL TRENCHES UNDER AREAS TO BE PAVED AND UNDER EXISTING PAVING SHALL BE GRANULARLY FILLED WITH 3/4" MINUS CRUSHED LIMESTONE ONLY. BACK FILL SHALL BE PLACED IN ACCORDANCE WITH CITY OF O'FALLON STANDARD CONSTRUCTION SPECIFICATIONS.
- 4.) ALL TRENCH BACK FILLS UNDER PAVEMENT WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE GRANULAR BACKFILLED.
- 5.) "O" RING RUBBER GASKETED WATER TIGHT JOINTS SHALL BE USED FOR ALL STORM SEWER REACHES ON THE STORM SEWER PROFILE SHEETS.

INTERIM GRADING CONSTRUCTION PHASING

- 1) INSTALL CONSTRUCTION ENTRANCE
- 2) CLEARING OF EXISTING TREES
- 3) INSTALL SILT FENCING
- 4) MASS GRADING
- 5) INSTALL DITCH CHECKS.
- 6) FINAL GRADING
- 7) PERMANENT SEEDING & MULCHING

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 EVERY SEVEN (7) 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 CONSTRUCTION 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.

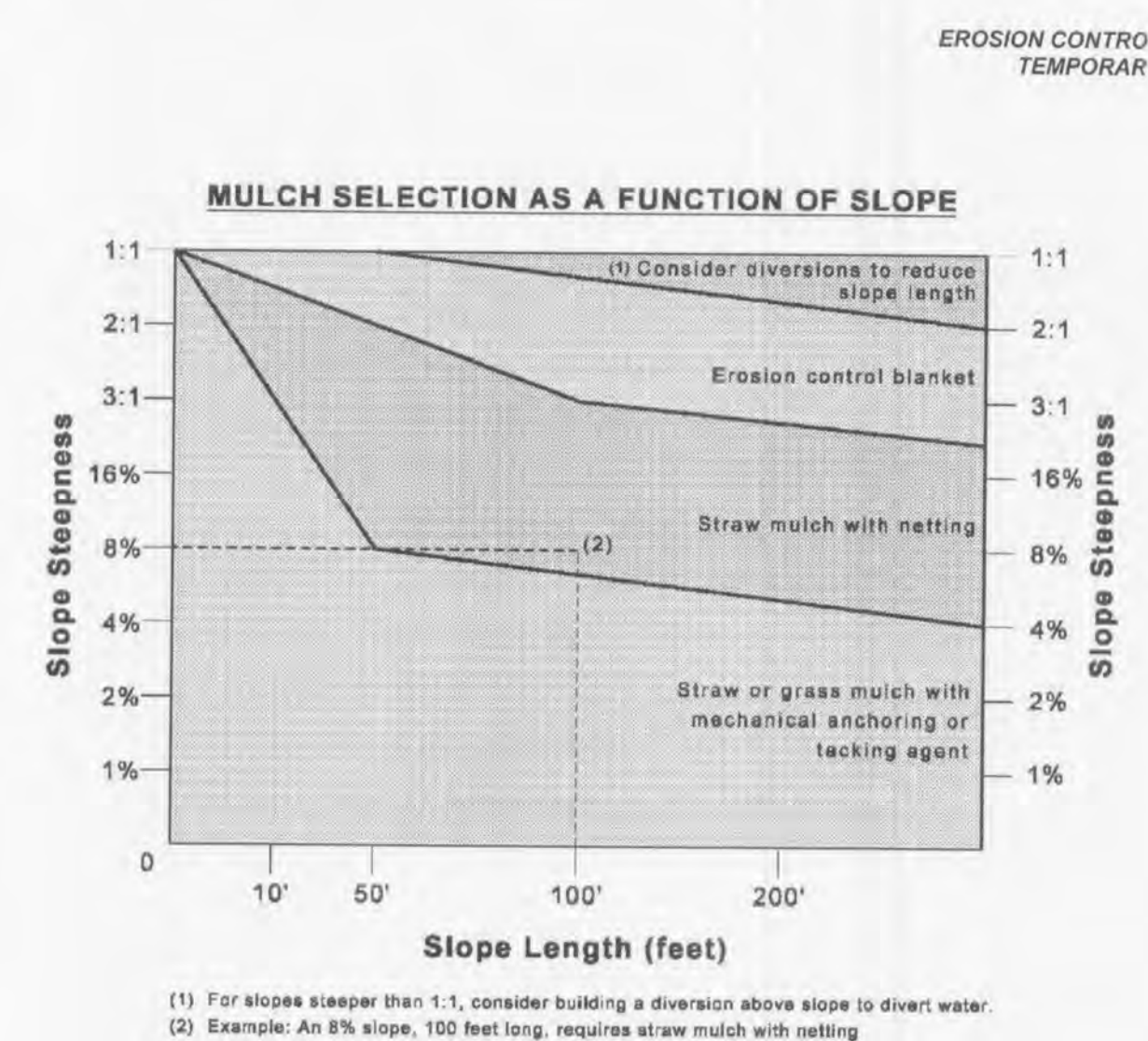
SILTATION CONTROL SCHEDULE IMPLEMENTATION

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 LENGTH 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.

TABLE 1: VEGETATION/SEEDING RATES AND MIXTURES



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 8 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.

5/19/2005

TABLE 2: MULCH SCHEDULE

		SEEDING REQUIREMENTS											
		Dates for Seeding											
Permanent Seeding	Tall Fescue Smooth Brome Fescue & Brome Fescue, Rye & Bluegrass	Jan	Feb	March	April	May	June	July	Aug	Sep	Oct	Nov	Dec
Temporary Seeding	Rye or Sudan Clover	Jan	Feb	March	April	May	June	July	Aug	Sep	Oct	Nov	Dec
			A	A	O	O	O	O	O	P	P	O	P

O = Optimum seeding date.
A = Acceptable seeding date.
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.

Permanent Seeding*	Minimum Fertilizer and Seeding Rates	
	Pounds per acre	Pounds Per 1000 sq. ft.
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	Pounds per acre		Pounds Per 1000 sq. ft.	
	Rye or Sudan	Clover		
	150	200	3.5	2.5

Fertilizer	Permanent Seeding		Temporary Seeding	
	(pounds per acre)	(pounds per acre)	(pounds per acre)	(pounds per acre)
Nitrogen	65	65	30	30
Phosphate	65	65	30	30
Potassium	65	65	30	30
Lime-E/M	600	600	000	000

E/M = Effective neutralizing material per State evaluation of quarried rock.

5/19/2005

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DATE	NO.	REVISION DESCRIPTION
8/29/2013	2	CITY COMMENTS
9/19/2013	1	CITY COMMENTS

DEVELOPER/OWNER:
PULTE GROUP
16640 CHESTERFIELD GROVE, STE 200
CHESTERFIELD, MO 63005
PHONE: (636) 537-7129

CIVIL ENGINEER:
JOHN F. HARSHBARGER
100116
REGISTERED PROFESSIONAL ENGINEER
NO. 011116
DATE: 5/19/15



PRESTON WOODS
PHASE 6
MASS GRADING PLANS
PRESTON WOODS LANE
O'FALLON, MO 63386

+ ST. CHARLES
1570 S. Fifth Street
Suite 207
St. Charles, MO 63303
636.978.7508 fax

COLE

CIVIL ENGINEERING / SURVEYING / PLANNING / LANDSCAPE ARCHITECTURE
Cole & Associates, Inc.

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CHECKED BY: JFH
DRAWING SCALE: -
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