

GENERAL NOTES

1. IN CASE OF DISCREPANCIES BETWEEN THE PLAN AND THE PLANT LIST, THE PLAN SHALL DICTATE. IF IN QUESTION, CONTACT THE LANDSCAPE ARCHITECT.
2. PROVIDE QUALITY, SIZE, GENUS, SPECIES, AND VARIETY FOR ALL PLANTS INDICATED, COMPLYING WITH APPLICABLE REQUIREMENTS OF ANSI Z60.1 "AMERICAN STANDARD FOR NURSERY STOCK", LATEST EDITION.
3. SUBMIT A LIST OF NURSERY SOURCES FOR ALL SPECIFIED PLANT MATERIAL INDICATING THE SIZE, GENUS, SPECIES AND VARIETY. INCLUDE THE QUANTITY OF PLANT MATERIAL TO BE PROCURED FROM EACH NURSERY.
4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL EXISTING UTILITIES PERTAINING TO THEIR PHASE OF WORK. UTILITIES ARE SHOWN TO BE APPROXIMATE. CALL UTILITY LOCATE PRIOR TO ANY PLACEMENT OF PLANT MATERIAL OR OTHER LANDSCAPE MATERIAL.
5. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND FEES THAT MAY BE REQUIRED FOR HIS PORTION OF WORK.
6. ANY EXISTING TREE(S) AND/OR PLANTINGS THAT MAY REQUIRE REMOVAL BUT ARE NOT SHOWN ON THE PLAN AS BEING REMOVED SHALL BE PROTECTED AND BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT TO DETERMINE IF TREE(S) AND/OR PLANTINGS SHOULD BE 1)REMOVED, 2)SAVED AND INTEGRATED INTO THE LANDSCAPE DESIGN, OR 3) RELOCATED.
7. CONTRACTOR TO REVIEW THE SWPPP SERIES PLANS FOR STABILIZATION (SEEDING/SOD/MULCH) REQUIREMENTS.
8. PLANTING BEDS AND PLANT MATERIAL SHALL BE LOCATED AS INDICATED ON LANDSCAPE PLAN. IN THE EVENT FIELD CHANGES OR CONDITIONS REQUIRE MODIFICATION TO THE LANDSCAPE DESIGN, THE CONTRACTOR SHALL CONSULT LANDSCAPE ARCHITECT AS TO PROPOSED MODIFICATIONS PRIOR TO PLANTING. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO ADJUST PLANT LOCATIONS ON SITE IF NECESSARY.
9. ALL PLANTS ARE TO MEET OR EXCEED AMERICAN STANDARDS FOR NURSERY STOCK, LATEST EDITION, AS SET FORTH BY AMERICAN ASSOCIATION OF NURSERYMEN.
10. PLANTS SHALL BEAR A TAG SHOWING GENUS, SPECIES AND VARIETY. REMOVE AT TIME OF FINAL ACCEPTANCE.
11. PLANTS SHALL BE CERTIFIED BY THE STATE OF MISSOURI DEPARTMENT OF NATURAL RESOURCES AND FREE FROM DISEASE OR HAZARDOUS INSECTS.
12. LANDSCAPE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT IN WRITING PRIOR TO BID DATE OF ANY PLANTS THAT HE FEELS MAY NOT SURVIVE IN LOCATIONS NOTED.
13. NO SUBSTITUTIONS OF PLANT MATERIAL WILL BE ALLOWED WITHOUT APPROVAL OF THE JURISDICTION HAVING AUTHORITY AND THE LANDSCAPE ARCHITECT. IF PLANTS ARE SHOWN TO BE UNAVAILABLE, THE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT PRIOR TO BID DATE IN WRITING. THE CONTRACTOR SHALL COMPENSATE THE LANDSCAPE ARCHITECT FOR THE TIME REQUIRED FOR REVIEW AND INSPECTION OF PROPOSED PLANT SUBSTITUTIONS BID AWARD.
14. ALL PLANT MATERIAL SHALL BE SPECIMEN QUALITY. SUBMIT COLOR PHOTOGRAPHS OF PROPOSED PLANT MATERIAL TAKEN IN THE NURSERY WHERE THEY ARE GROWING. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO INSPECT PLANT MATERIALS AT NURSERY OR CONTRACTOR YARD PRIOR TO DELIVERY TO THE SITE. THE LANDSCAPE ARCHITECT MAY ALSO INSPECT AND APPROVED OR REJECTED PLANT MATERIAL ON THE JOB SITE. IN THE EVENT PLANT MATERIAL IS NOT THE SPECIFIED SIZE OR QUALITY, PLANTS WILL BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.
15. PLANTS AND OTHER LANDSCAPE MATERIALS TO BE STORED ON SITE WILL BE PLACED WHERE THEY WILL BE PROTECTED AND NOT CONFLICT WITH CONSTRUCTION OPERATIONS.
16. COMPOST SHALL BE A WELL DECOMPOSED, STABLE, WEED FREE ORGANIC MATTER SOURCE. IT SHALL BE DERIVED FROM: AGRICULTURAL, FOOD, OR INDUSTRIAL RESIDUALS; BIOSOLIDS (TREATED SEWAGE SLUDGE); YARD TRIMMINGS; SOURCE-SEPARATED OR MIXED SOLID WASTE. THE PRODUCT SHALL CONTAIN NO SUBSTANCES TOXIC TO PLANTS AND SHALL BE REASONABLY FREE (< 1% BY DRY WEIGHT) OF MAN-MADE FOREIGN MATTER. THE COMPOST WILL POSSESS NO OBJECTIONABLE ODORS AND SHALL NOT RESEMBLE THE RAW MATERIAL FROM WHICH IT WAS DERIVED.
17. SHRUB AND PERENNIAL BEDS SHALL BE PREPARED BY PLACING 3" OF APPROVED COMPOST OVER PULVERIZED TOPSOIL AND ROTOTILLING TO A DEPTH OF 6".
18. PRE-EMERGENT HERBICIDE SHALL BE APPLIED IN ALL PLANTING AND GROUND COVER BEDS PRIOR TO MULCHING AT RATES SPECIFIED BY MANUFACTURER FOR EACH VARIETY OF PLANT. PRE-EMERGENT HERBICIDE SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO APPLICATION.
19. ALL TREE AND SHRUB PLANTING AREAS TO BE COVERED WITH 3" THICK LAYER OF SHREDDED HARDWOOD BARK MULCH. ALL GROUND COVER BEDS SHALL BE COVERED WITH 1" SHREDDED HARDWOOD BARK MULCH. BARK MULCH SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT AND SHALL BE UNIFORM IN TEXTURE AND COLOR AND SHALL BE FREE OF STICKS, LEAVES, SOIL AND FOREIGN MATERIAL. NO UTILITY MULCH OR PROCESSED TREE TRIMMINGS WILL BE ALLOWED.
20. CONTRACTOR SHALL MAINTAIN ALL LAWN AREAS AND PLANT MATERIAL UNTIL ALL PUNCH LIST WORK HAS BEEN COMPLETED AND WRITTEN FINAL ACCEPTANCE BY THE LANDSCAPE ARCHITECT OR OWNER. MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER EACH PLANT IS INSTALLED AND SHALL INCLUDE BUT NOT LIMITED TO, WATERING, WEEDING, PRUNING, DISEASE AND INSECT CONTROL, MOWING, RESETTING OF PLANTS TO PROPER GRADES OR UPRIGHT POSITION, AND ANY OTHER PROCEDURE CONSISTENT WITH GOOD HORTICULTURAL PRACTICES.
21. ALL NEW LANDSCAPE PLANTINGS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FOLLOWING FINAL ACCEPTANCE AS DETERMINED BY LANDSCAPE ARCHITECT OR OWNER. AT THE END OF THIS PERIOD, PLANT MATERIAL DETERMINED TO BE DEAD OR UNSATISFACTORY BY LANDSCAPE ARCHITECT OR OWNER SHALL BE REPLACED AT NO ADDITIONAL CHARGE BY THE CONTRACTOR.

SUN & SHADE SEED MIXTURE	
APPLICATION RATE: 3-4 lb./1,000 sq. ft.	
TURF-TYPE PERENNIAL RYEGRASS	34%
FINE FESCUE	33%
SHAMROCK KBG	33%
***Sun & Shade Park Mix forms a durable turf for general use areas. Sun & Shade Park Mix will do well under a wide range of maintenance levels and can be established in full sun to partially shaded conditions. Sun & Shade Park Mix will provide turf with a fine texture, good mowing quality, and withstand moderate traffic. Sun & Shade Park Mix will establish quickly for maximum competition against annual weeds.***	

PERMANENT SEEDING NOTES

GRADING

1. GRADE THE SITE TO ACHIEVE PROPOSED GRADES AND POSITIVE DRAINAGE.
- ADD TOPSOIL TO ACHIEVE NEEDED DEPTH FOR ESTABLISHMENT OF VEGETATION.

SEEDBED PREPARATION

1. TEST SOIL TO DETERMINE PH AND NUTRIENT LEVELS.
2. APPLY SOIL AMENDMENTS AS RECOMMENDED BY THE SOIL TEST AND WORK INTO THE UPPER TWO TO FOUR INCHES OF SOIL. IF TESTING IS NOT DONE, APPLY 400 TO 600 POUNDS PER ACRE OF 12-12-12 ANALYSIS FERTILIZER, OR EQUIVALENT.
3. TILL THE SOIL TO OBTAIN A UNIFORM SEEDBED. USE A DISK OR RAKE, OPERATED ACROSS THE SLOPE, TO WORK THE SOIL AMENDMENTS INTO THE UPPER TWO TO FOUR INCHES OF THE SOIL.

SEEDING

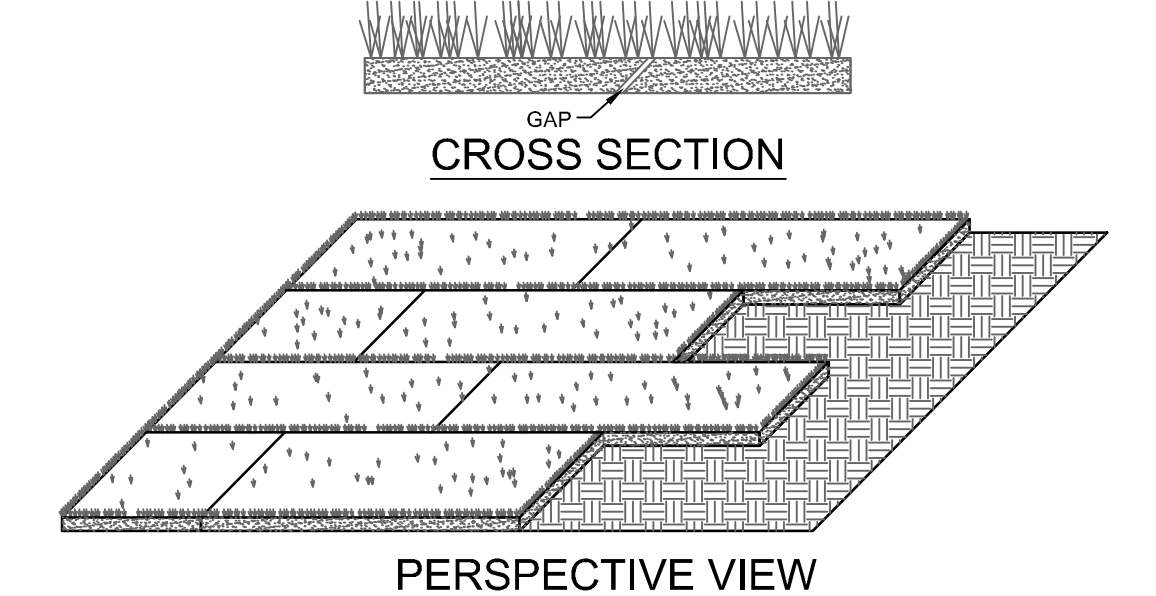
OPTIMUM SEEDING DATES: MARCH 1 TO MAY 10 OR AUGUST 10 TO SEPTEMBER 30

PERMANENT SEEDING DONE BETWEEN MAY 10 TO AUGUST 10 - SHALL BE IRRIGATED. SEEDING OUTSIDE OR BEYOND OPTIMUM SEEDING DATES IS STILL POSSIBLE WITH THE UNDERSTANDING THAT RESEEDING OR OVERSEEDING SHALL BE REQUIRED IF ADEQUATE SURFACE COVER IS NOT ACHIEVED. RESEEDING OR OVERSEEDING CAN BE EASILY ACCOMPLISHED IF THE SOIL SURFACE REMAINS WELL PROTECTED WITH MULCH.

1. APPLY SEED UNIFORMLY WITH A DRILL OR CULTIPACKER SEEDER OR BY BROADCASTING. PLANT OR COVER THE SEED TO A DEPTH OF ONE-FOURTH TO ONE-HALF INCH. IF DRILLING OR BROADCASTING THE SEED, ENSURE GOOD SEED-TO-SOIL CONTACT BY FIRING THE SEEDBED WITH A ROLLER OR CULTIPACKER AFTER COMPLETING SEEDING OPERATIONS. (IF SEEDING IS DONE WITH A HYDROSEEDER, FERTILIZER AND MULCH CAN BE APPLIED WITH THE SEED IN A SLURRY MIXTURE.)
2. MULCH ALL SEEDBED AREAS AND USE APPROPRIATE METHODS TO ANCHOR THE MULCH IN PLACE. USE EROSION CONTROL BLANKETS ON SLOPING AREAS AND CONVEYANCE CHANNELS.

MAINTENANCE

1. INSPECT WITHIN 24 HOURS OF EACH RAIN EVENT AND AT LEAST ONCE EVERY SEVEN CALENDAR DAYS UNTIL THE VEGETATION IS SUCCESSFULLY ESTABLISHED.
2. CHARACTERISTICS OF A SUCCESSFUL STAND INCLUDE VIGOROUS DARK GREEN OR BLuishGREEN SEEDLINGS WITH A UNIFORM VEGETATIVE COVER DENSITY OF 90 PERCENT OR MORE.
3. CHECK FOR EROSION OR MOVEMENT OF MULCH.
4. REPAIR DAMAGED, BARE, GULLIED, OR SPARSELY VEGETATED AREAS AND THEN FERTILIZE, RESEED, AND APPLY AND ANCHOR MULCH.
5. IF PLANT COVER IS SPARSE OR PATCHY, EVALUATE THE PLANT MATERIALS CHOSEN, SOIL FERTILITY, MOISTURE CONDITION, AND MULCH APPLICATION. REPAIR AFFECTED AREAS EITHER BY OVERSEEDING OR PREPARING A NEW SEEDBED AND RESEEDING, APPLY AND ANCHOR MULCH ON THE NEWLY SEEDBED AREAS.
6. IF VEGETATION FAILS TO GROW, TEST SOIL TO DETERMINE SOIL PH OR NUTRIENT DEFICIENCY PROBLEMS. (CONTACT YOUR SOIL AND WATER CONSERVATION DISTRICT OR COOPERATIVE EXTENSION OFFICE FOR ASSISTANCE.)
7. IF ADDITIONAL FERTILIZATION OR SOIL AMENDMENTS ARE NEEDED TO GET A SATISFACTORY STAND, DO SO ACCORDING TO SOIL TEST RECOMMENDATIONS.
8. ADD FERTILIZER THE FOLLOWING GROWING SEASON. FERTILIZE ACCORDING TO SOIL TEST RECOMMENDATIONS.
9. FERTILIZE TURF AREAS ANNUALLY. APPLY FERTILIZER IN A SPLIT APPLICATION. FOR COOL-SEASON GRASSES, APPLY ONE-HALF OF THE FERTILIZER IN LATE SPRING AND ONE-HALF IN EARLY FALL. FOR WARM-SEASON GRASSES, APPLY ONE-THIRD IN EARLY SPRING, ONE-THIRD IN LATE SPRING, AND THE REMAINING ONE-THIRD IN MIDDLE SUMMER.



1 SOD APPLICATION DETAIL

Scale: N.T.S.

SOD NOTES

INSTALLATION  
SOD SHOULD NOT BE INSTALLED DURING HOT WEATHER, ON DRY SOIL, FROZEN SOIL, COMPACTED CLAY, LOOSE SAND OR GRAVELLY SUBSTRATE SOILS, AGGREGATE, OR PESTICIDE TREATED SOIL. THE IDEAL TIME TO LAY SOD IS MAY 1 TO JUNE 1 OR SEPTEMBER 1 TO SEPTEMBER 30. ALTHOUGH IT CAN BE INSTALLED AS EARLY AS MARCH 15 IF AVAILABLE OR JUNE 1 TO SEPTEMBER 1 IF IRRIGATED.

SITE PREPARATION

1. APPLY TOPSOIL IF EXISTING SOIL CONDITIONS ARE UNSUITABLE FOR ESTABLISHING VEGETATION.
2. GRADE THE SITE TO ACHIEVE POSITIVE DRAINAGE AND CREATE A SMOOTH, FIRM SOIL SURFACE.
3. WHERE APPLICABLE, USE A CHISEL PLOW, DISK, HARROW, OR RAKE TO BREAK UP COMPACTED SOILS AND CREATE A FAVORABLE ROOTING DEPTH OF SIX TO EIGHT INCHES.

SOD BED PREPARATION

1. TEST SOIL TO DETERMINE PH AND NUTRIENT LEVELS.
2. IF SOIL PH IS TOO ACIDIC FOR THE GRASS SOD TO BE INSTALLED, APPLY LIME ACCORDING TO SOIL TEST RESULTS OR AT THE RATE RECOMMENDED BY THE SOD SUPPLIER.
3. APPLY FERTILIZER AS RECOMMENDED BY THE SOIL TEST. IF TESTING WAS NOT DONE, APPLY 400 TO 600 POUNDS PER ACRE OF 12-12-12 ANALYSIS FERTILIZER, OR EQUIVALENT.
4. WORK THE SOIL AMENDMENTS INTO THE UPPER TWO TO FOUR INCHES OF SOIL WITH A DISK OR RAKE OPERATED ACROSS THE SLOPE.
5. RAKE OR HARROW THE AREA TO ACHIEVE A SMOOTH FINAL GRADE AND THEN ROLL OR CULTIPACK THE SOIL SURFACE TO CREATE A FIRM SURFACE ON WHICH TO LAY THE SOD.

LAYING THE SOD

1. INSTALL SOD WITHIN THIRTY-SIX HOURS OF ITS CUTTING.
2. STORE THE SOD IN A SHADED LOCATION DURING INSTALLATION.
3. IMMEDIATELY BEFORE LAYING THE SOD, RAKE THE SOIL SURFACE TO BREAK ANY CRUST. (IF THE WEATHER IS HOT, LIGHTLY IRRIGATE THE SOIL SURFACE PRIOR TO LAYING THE SOD.)
4. LAY SOD STRIPS IN A BRICK-LIKE PATTERN.
5. BUTT ALL JOINTS TIGHTLY AGAINST EACH OTHER (DO NOT STRETCH OR OVERLAP THEM), USING A KNIFE OR MASONS TROWEL TO TRIM AND FIT SOD INTO IRREGULARLY SHAPED AREAS.
6. ROLL THE SOD LIGHTLY AFTER INSTALLATION TO ENSURE FIRM CONTACT BETWEEN THE SOD AND SOIL.
7. IRRIGATE NEWLY SODDED AREAS UNTIL THE UNDERLYING SOIL IS WET TO A DEPTH OF FOUR INCHES, AND THEN KEEP MOIST UNTIL THE GRASS TAKES ROOT.

SLOPE APPLICATION

1. INSTALL THE SOD STRIPS WITH THE LONGEST DIMENSION PERPENDICULAR TO THE SLOPE.
2. WHERE SLOPES EXCEED A RATIO OF 3:1, STAPLE OR STAKE EACH STRIP AT THE CORNERS AND IN THE MIDDLE.

CHANNEL APPLICATION  
(SODDING PROVIDES QUICKER PROTECTION THAN SEEDING AND MAY REDUCE THE RISK OF EARLY WASHOUT.)

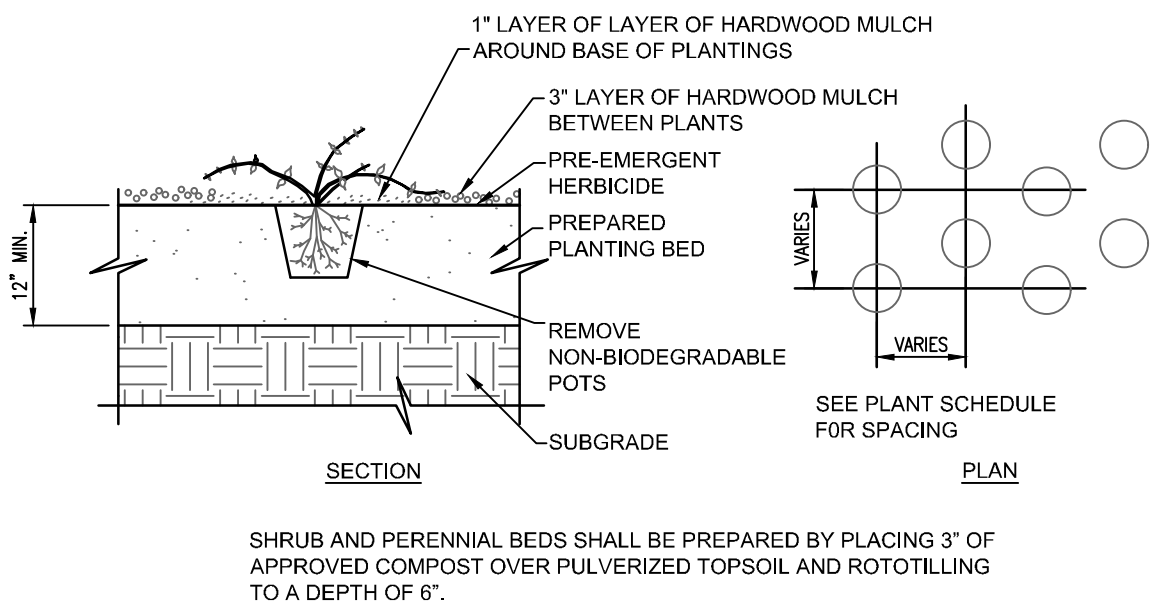
1. EXCAVATE THE CHANNEL, ALLOWING FOR THE FULL THICKNESS OF THE SOD.
2. LAY THE SOD STRIPS WITH THE LONGEST DIMENSION PERPENDICULAR TO CHANNEL FLOW.
3. STAPLE OR STAKE EACH STRIP OF SOD AT THE CORNERS AND IN THE MIDDLE.
4. STAPLE JUTE OR BIODEGRADABLE POLYPROPYLENE NETTING OVER THE SODDED AREA TO MINIMIZE THE POTENTIAL FOR WASHOUT DURING ESTABLISHMENT.

MAINTENANCE

1. INSPECT WITHIN 24 HOURS OF EACH RAIN EVENT AND AT LEAST ONCE EVERY SEVEN CALENDAR DAYS UNTIL SOD IS WELL ROOTED.
2. KEEP SOD MOIST UNTIL FULLY ROOTED.
3. AFTER SOD IS WELL-ROOTED (TWO TO THREE WEEKS), MAINTAIN A PLANT HEIGHT OF TWO TO THREE INCHES.
4. TIME MOWING TO AVOID RUTS IN TURF.
5. FERTILIZE TURF AREAS ANNUALLY. APPLY FERTILIZER IN A SPLIT APPLICATION. FOR COOL SEASON GRASSES, APPLY ONE-HALF OF THE FERTILIZER IN LATE SPRING AND ONE-HALF IN EARLY FALL. FOR WARM-SEASON GRASSES, APPLY ONE-THIRD IN EARLY SPRING, ONE-THIRD IN LATE SPRING AND ONE-THIRD IN MID-SUMMER.

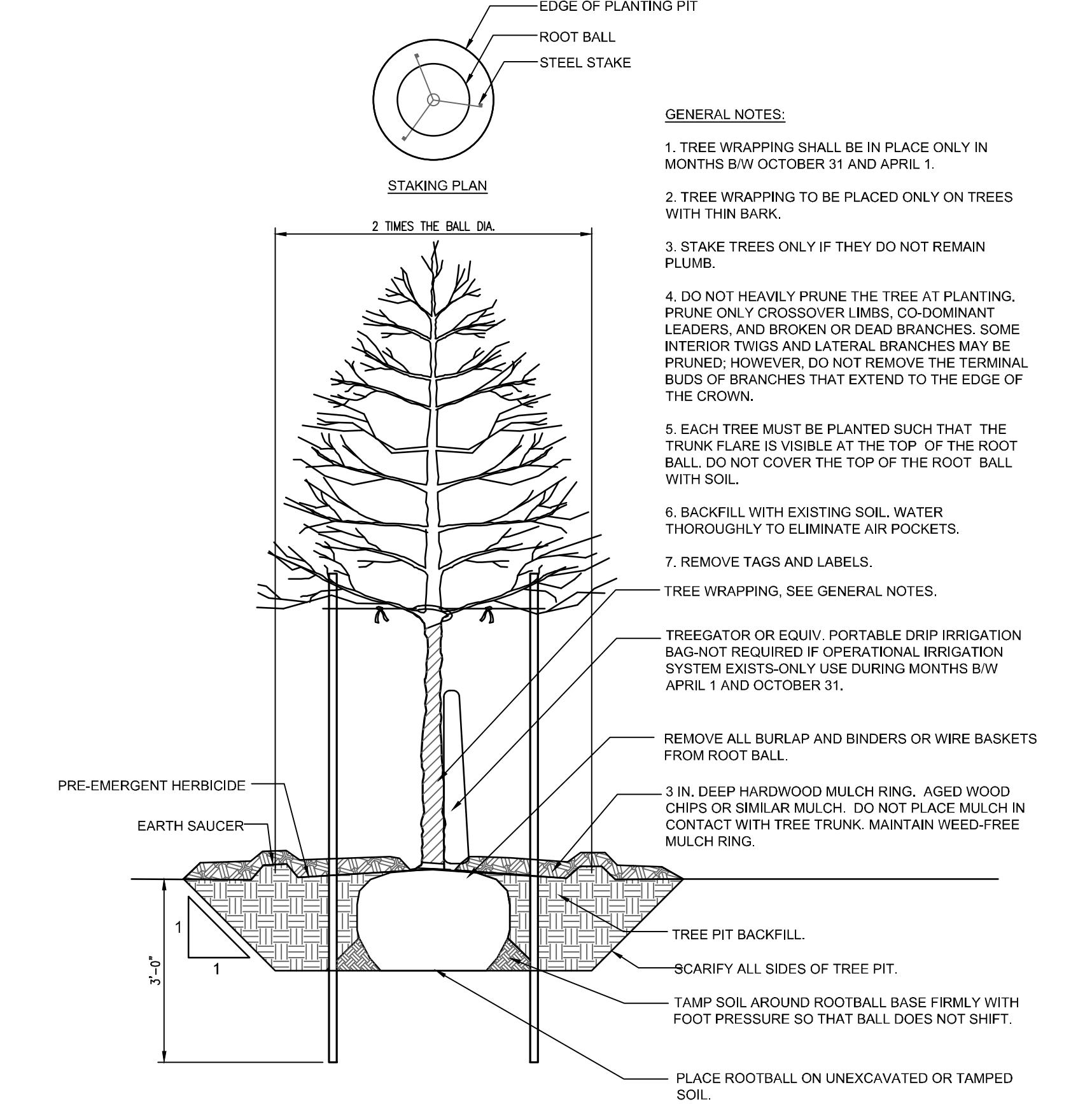
2 V-CUT LANDSCAPE BED EDGE DETAIL

Scale: N.T.S.



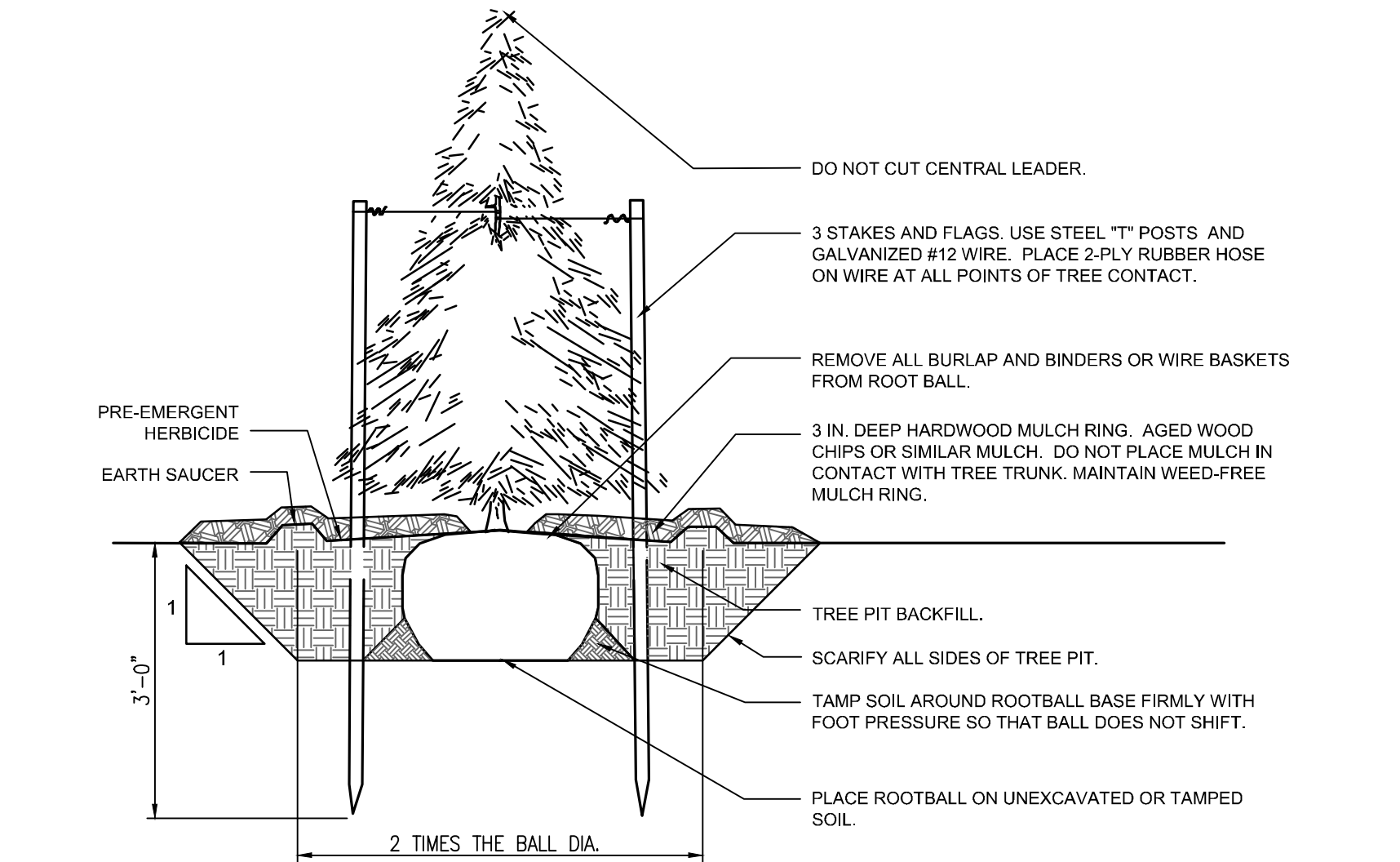
3 GROUNDCOVER PLANTING

Scale: N.T.S.



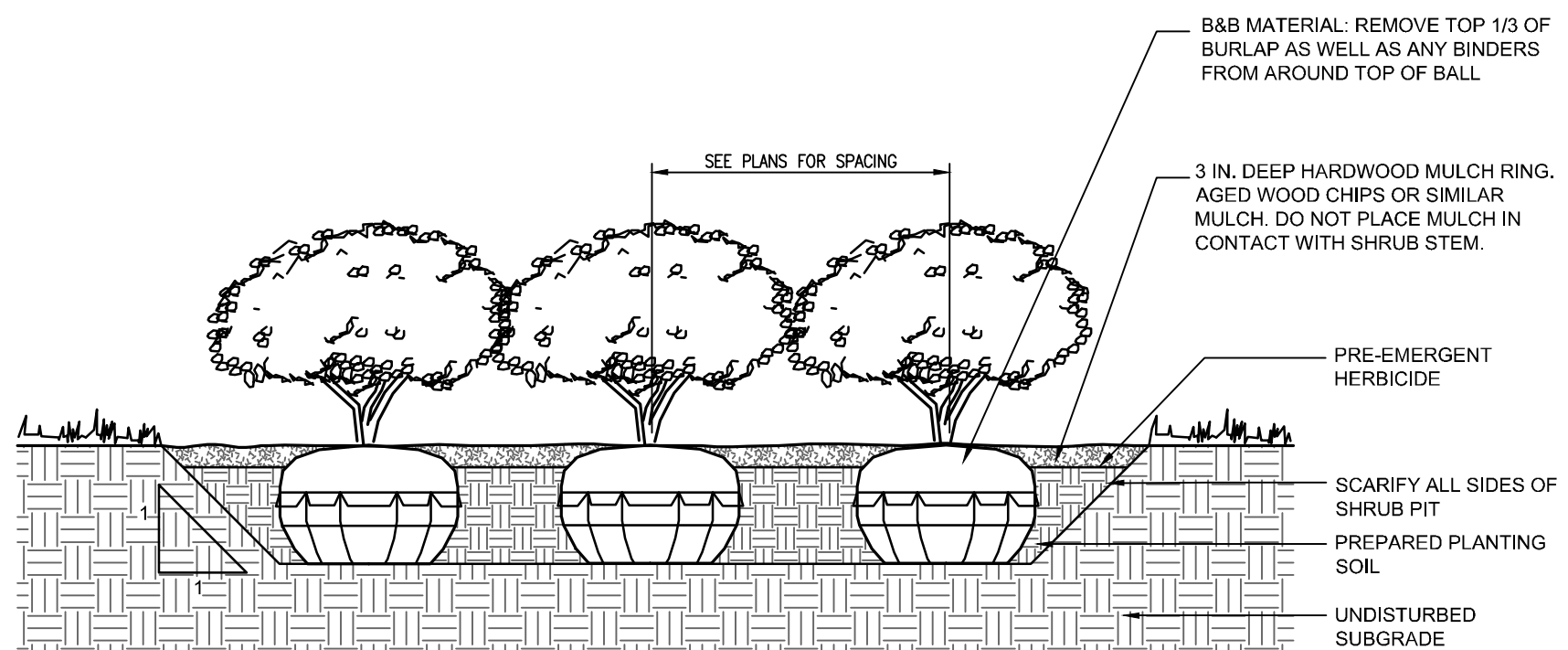
4 TREE PLANTING DETAIL

Scale: N.T.S.



5 EVERGREEN TREE PLANTING DETAIL

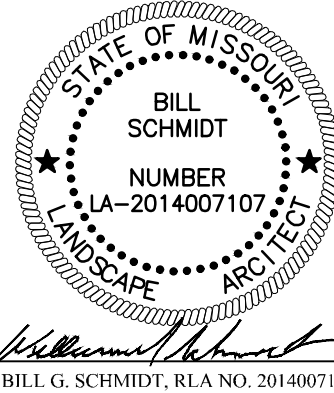
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6 SHRUB PLANTING DETAIL

Scale: N.T.S.

REVISIONS AND ISSUES	DATE	BY
ISSUED FOR CLIENT REVIEW	06/13/2024	DD
ISSUED FOR CLIENT REVIEW	07/18/2024	DD
ISSUED FOR CITY OF OFALLON COMMENTS	08/01/2024	DD
ISSUED FOR CITY OF OFALLON COMMENTS	10/16/2024	DD
DESIGNED BY	W230784-T-100 belling	DD
DRAWN BY	JS	DD
CHECKED BY	DD	DD
DATE	08/26/2024	DD



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