

GENERAL PLANTING NOTES & SPECIFICATIONS:

1. All plant material shall conform to the sizes given in the plant schedule and shall be nursery grown in accordance with the "American Standards for Nursery Stock", latest edition prepared by the American Association of Nurseryman, 230 Southern Building, Washington, D.C. 20005.
2. All work specified herein shall be performed by qualified personnel experienced in this type of work. The Contractor or Subcontractor shall be a member of one of the following organizations: Associated Landscape Contractors of America and /or American Association of Nurserymen.
3. All dimensions shall be verified in field. Any substantial deviation from dimensions given on the drawings shall be brought to the attention of the Engineer, in writing, prior to the start of work.
4. Plant Schedule provided for convenience only. All quantities shall be verified on the plan. Report any discrepancies to the Engineer.
5. All major shrub and tree masses shall be staked in field and approved by the Engineer prior to installation.
6. Existing work of every description which may become damaged during construction shall be replaced or repaired with materials to match those previously in place. Materials shall be supplied by the Contractor at no cost to the Owner and to the satisfaction of the Engineer.
7. All plants shall be guaranteed to remain alive and healthy for a period of one full year after plant installation and acceptance. Those plants in an impaired, dead, or dying condition at one full years end shall be removed and replaced. New plants, requirements, etc. and method of placing shall comply with the requirements specified in these specifications and on the drawing. Plants replacing those after the first full year shall also be guaranteed to remain alive and healthy for one full growing season. Such replacement shall continue until each plant, as required under this contract, shall survive one full year alive and healthy. Warranty shall be limited to one replacement per plant.
8. If synthetic wrapping material is used on any rootball, remove entirely.
9. All plant beds shall be mulched with a 3" layer of mulch within 24 hours after planting. This shall be double shredded hardwood bark mulch and shall cover the planting bed entirely. The edge of the plant bed shall be constructed 4" below finish grade and finished with 3" of mulch.
10. Planting Pit Soil: Pre-mixed planting soil 'A' shall consist of 5 parts planting topsoil, 1 part composted yard waste, and 1/2 lbs. plant fertilizer (as directed by manufacturer for tree planting). Pre-mixed planting soil 'B' shall consist of 3 parts planting topsoil, 1 part composted yard waste, and 1/2 lbs. plant fertilizer (as directed by the manufacturer for shrub and perennial plantings) per cubic yard of mix.
11. Seedbed Requirements: Vegetation shall not be established on slopes that are unsuitable due to inappropriate soil texture, poor internal structure or internal drainage, volume of overland flow, or excessive steepness, until measures have been taken to correct these problems.
12. Lime & Fertilizer:

LIME:

Piedmont & Appalachian Region: 2 tons/acre pulverized agricultural grade limestone (90 lbs./1000 sq. ft.). An agricultural grade of limestone shall be used.

FERTILIZER:

Mixed Grasses & Legumes: 1000 lbs./acre 10-20-10 or equivalent nutrients (23 lbs./1000 sq. ft.)

Legume Stands Only: 1000 lbs./acre 5-20-10 (23 lbs./1000 sq. ft.) is preferred; however, 1000 lbs./ acre of 10-20-10 or equivalent may be used.

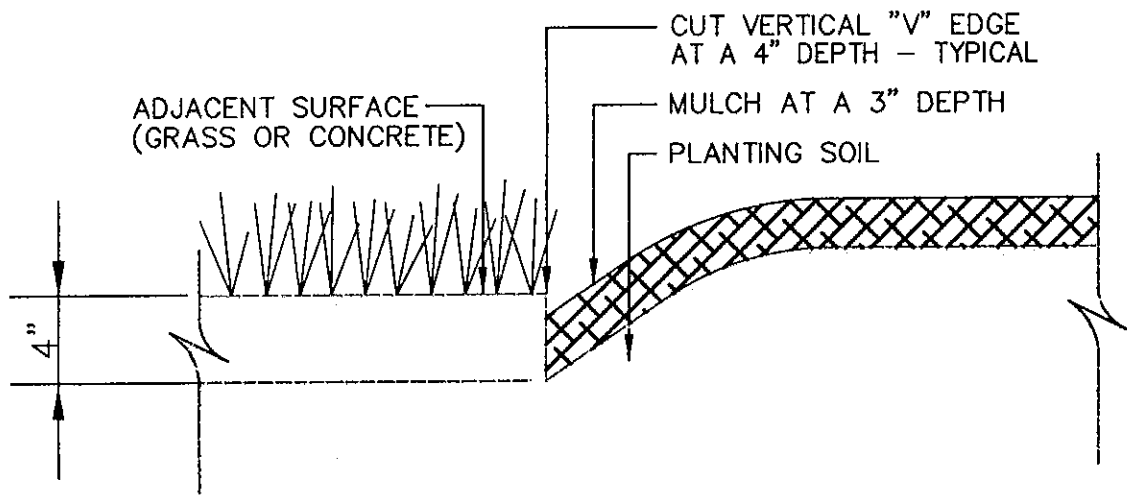
Grass Stands Only: 1000 lbs./acre 10-20-10 or equivalent nutrients, (23 lbs./1000 sq. ft.)

\* Other fertilizer formulations, including slow-release sources of nitrogen may be used provided they can supply the same amounts and proportions of plant nutrients.

13. Incorporation: Lime and fertilizer shall be incorporated into the top 4"-6" of the soil by discing or other means whenever possible. For erosion control, when applying lime and fertilizer with a hydroseeder, apply to a rough, loose surface.
14. Seeding: Certified seed shall be used for all permanent seeding. Certified seed is inspected by the Virginia Crop Improvement Association or the certifying agency in other states. The seed must meet published state standards and bear an official "Certified Seed" label. Apply seed uniformly with a broadcast seeder, drill, culti-packer seeder, or hydroseeder on a firm, friable seedbed. Seeding depth should be 1/4 inch to 1/2 inch.
15. Temporary seeding will be placed on all disturbed areas that will not be brought to final grade within one year or less. Temporary seeding will aid in the reduction of dust and sediment and will be Annual Ryegrass (100 lbs/ac) Feb 16-April 30, German Millet (60 lbs/ac), May 1 - Aug 31.
16. Permanent seeding shall be Southern Lawn Blend-a 'Blue Tag' certified seed blend consisting of 3-4 varieties of turf-type tall fescue cultivars that are currently listed on Virginia Tech's annual "Turfgrass Variety Recommendations" listing as approved by the Virginia Crop Improvement Association (VCIA). Example mix is 25% Apache II, 25% Tarheel, 25% Wolfpack, and 25% Southern Choice. All seed shall be Category 1 Recommended Tall Fescue Varieties. Each seed variety shall not exceed 35% of the total mix.
17. Permanent Seeding: Areas of permanent seeding are as shown on landscape plan. New seeded areas which were formerly asphalt, concrete, and/or compacted gravel surfaced shall have 6" of topsoil placed and graded prior to permanent seeding.
18. In areas receiving sod and seed, topsoil shall be placed at a minimum depth of 4" (inches).
19. Installation of topsoil shall proceed installation of any/all plant materials.
20. Seedbed Mulching: All permanent seeding shall be mulched with clean, weed-free straw immediately upon completion of seed application.
21. Irrigation: New seedlings shall be supplied with adequate moisture.
22. Grass Sodding: Virginia Crop Improvement Association (VCIA) certified sod or "Virginia's Finest" sod, certified by the Virginia Department of Agriculture shall be used. Each load of sod shall bear a VCIA certified sod label or a "Virginia's Finest" certified sod label. Install a Kentucky Bluegrass Blend (KBB) sod on soil bed prepared by removing all existing vegetation and cultivating to a 4" depth, removing debris and stones. Sod shall be laid in a "brickwork" fashion, staggering joints. Ensure tight joints.
23. Allowable planting periods for all plantings shall be "March 1- April 30" and "September 1 - October 31."

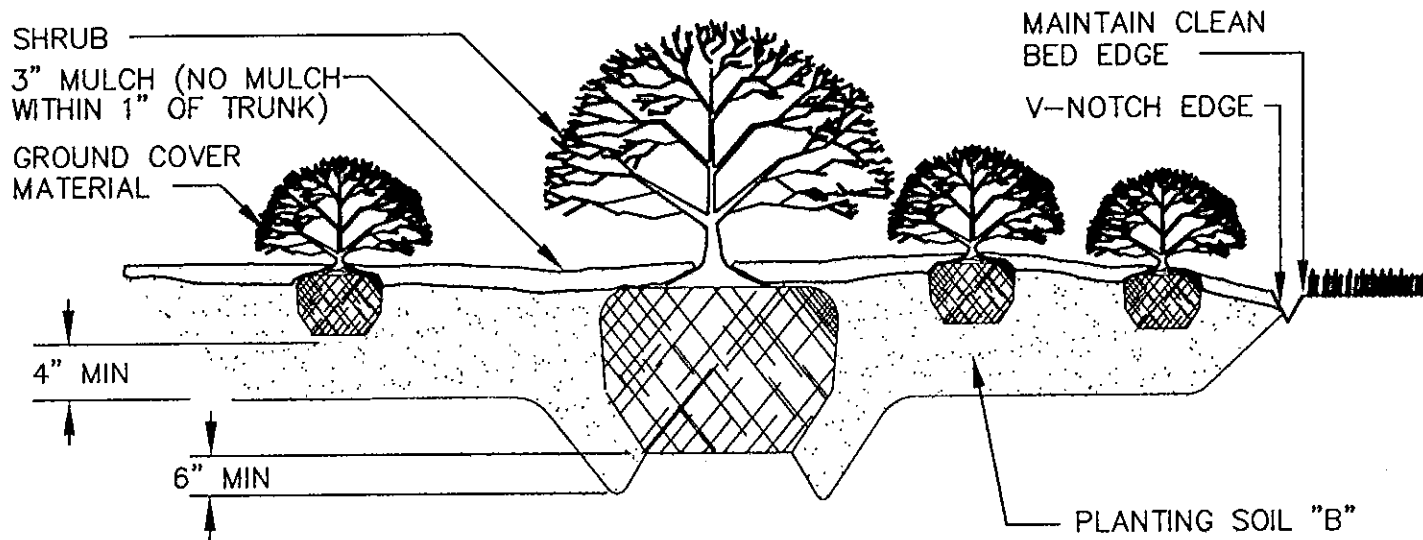
MASTER PLANTING SCHEDULE

QTY.	ABBREV.	BOTANICAL NAME	COMMON NAME	COMMENTS	NATIVE	CANOPY COVERAGE	TOTAL COVERAGE
LARGE DECIDUOUS TREES							
4	AR	ACER RUBRUM	RED MAPLE	1 1/2" - 2" MIN. CAL., B&B @ 30' O.C.	YES	1250 SF	5,000 SF
20	AS	ACER SACCHARINUM	SUGAR MAPLE	1 1/2" - 2" MIN. CAL., B&B @ 30' O.C.	YES	1250 SF	27,500 SF
4	ZS	ZELKOVA SERRATA	'VILLAGE GREEN'	1 1/2" - 2" MIN. CAL., B&B @ 30' O.C.	NO	1250 SF	5,000 SF
12	SG	LIQUIDAMBAR STYRACIFLUA	SWEET GUM	1 1/2" - 2" MIN. CAL., B&B @ 30' O.C.	YES	1250 SF	12,500 SF
12	WO	QUERCUS PHELLOS	WILLOW OAK	1 1/2" - 2" MIN. CAL., B&B @ 30' O.C.	YES	1250 SF	15,000 SF
13	QC	QUERCUS COCCINEA	SCARLET OAK	1 1/2" - 2" MIN. CAL., B&B @ 30' O.C.	YES	1250 SF	16,250 SF
20	DR	METASQUOIA GLYPTOSTROBOIDES	DAWN REDWOOD	1 1/2" - 2" MIN. CAL., B&B @ 30' O.C.	NO	1250 SF	25,000 SF
7	RE	ULMUS	'REGAL'	1 1/2" - 2" MIN. CAL., B&B @ 30' O.C.	YES	1250 SF	8,750 SF
							115,000 SF
SMALL DECIDUOUS TREES							
24	AB	AMELANCHIER X GRANDIFLORA	'AUTUMN BRILLANCE'	1 1/2" - 2" MIN. CAL., B&B @ 15' O.C.	YES	250 SF	6,000 SF
24	CM	LAGERSTROEMIA INDICA	'NATCHEZ' CrapeMyrtle	1 1/2" - 2" MIN. CAL., B&B @ 15' O.C.	NO	250 SF	6,000 SF
10	CV	CHIONANTHUS VIRGINICUS	FRINGE TREE	1 1/2" - 2" MIN. CAL., B&B @ 15' O.C.	YES	250 SF	2,500 SF
6	CF	CORNUS FLORIDA	FLOWERING DOGWOOD	1 1/2" - 2" MIN. CAL., B&B @ 15' O.C.	YES	250 SF	1,500 SF
5	MV	MAGNOLIA VIRGINIANA	SWEETBAY MAGNOLIA	1 1/2" - 2" MIN. CAL., B&B @ 15' O.C.	YES	250 SF	3,750 SF
21	TC	PRUNUS CERASIFERA	'THUNDERCLOUD' PLUM	1 1/2" - 2" MIN. CAL., B&B @ 15' O.C.	NO	250 SF	1,250 SF
28	CC	CERCIS CANADENSIS	EASTERN REDBUD	1 1/2" - 2" MIN. CAL., B&B @ 15' O.C.	YES	250 SF	7,000 SF
							28,000 SF
LARGE SHRUBS							
61	IV	ILEX VERTICILLATA	WINTERBERRY	24" - 30" MIN. HT. & SPD., #3 CONT. @ 5' O.C.	YES	10 SF	610 SF
61	MP	MYRICA PENNSYLVANICA	NORTHERN BAYBERRY	24" - 30" MIN. HT. & SPD., #3 CONT. @ 5' O.C.	YES	10 SF	610 SF
							1220 SF
SMALL SHRUBS							
34	CWG	CARYOPTERIS 'WORCESTER GOLD'	'WORCESTER GOLD' CARYOPTERIS	24" - 30" MIN. HT. & SPD., #3 CONT. @ 5' O.C.	NO	5 SF	170 SF
94	ICGL	ILEX CRENATA 'GREEN LUSTRE'	'GREEN LUSTRE' JAPANESE HOLLY	24" - 30" MIN. HT. & SPD., #3 CONT. @ 5' O.C.	NO	5 SF	340 SF
6	ICST	ILEX CRENATA 'SOFT TOUCH'	'SOFT TOUCH' JAPANESE HOLLY	24" - 30" MIN. HT. & SPD., #3 CONT. @ 5' O.C.	NO	5 SF	30 SF
18	JCE	JUNIPERUS CHINENSIS 'EXPANSA'	PARSON'S JUNIPER	24" - 30" MIN. HT. & SPD., #3 CONT. @ 5' O.C.	NO	5 SF	90 SF
12	JCNC	JUNIPERUS CHINENSIS 'NICK'S COMPACT'	'NICK'S COMPACT' JUNIPER	24" - 30" MIN. HT. & SPD., #3 CONT. @ 5' O.C.	NO	5 SF	60 SF
33	NDFP	NANDINA DOMESTICA 'FIRE POWER'	'FIRE POWER' NANDINA	24" - 30" MIN. HT. & SPD., #3 CONT. @ 5' O.C.	NO	5 SF	165 SF
39	SJNF	SPIREA JAPONICA 'NEON FLASH'	'NEON FLASH' JAPANESE SPIREA	24" - 30" MIN. HT. & SPD., #3 CONT. @ 5' O.C.	NO	5 SF	195 SF
50	CARS	CLETHRA ALNIFOLIA	'RUBY SPICE' SWEET PEPPERBUSH	24" - 30" MIN. HT. & SPD., #3 CONT. @ 5' O.C.	YES	5 SF	250 SF
28	ICBN	ILEX CORNUTA	DWARF BURFORD HOLLY	24" - 30" MIN. HT. & SPD., #3 CONT. @ 5' O.C.	NO	5 SF	140 SF
10	SJLP	SPIRAEA JAPONICA	'LITTLE PRINCESS' SPIREA	24" - 30" MIN. HT. & SPD., #3 CONT. @ 5' O.C.	NO	5 SF	50 SF
							1490 SF
GROUNDCOVERS							
4,643	SY	SODDED AREAS (See Note #22)	SOD	UNITS: 41,787 SF = 4,643 SY = 0.96 ACRE	N/A	N/A	N/A
11,890	SY	SEEDED AREAS (See Note #16)	SEED	UNITS: 107,010 SF = 11,890 SY = 2.46 ACRE	N/A	N/A	N/A



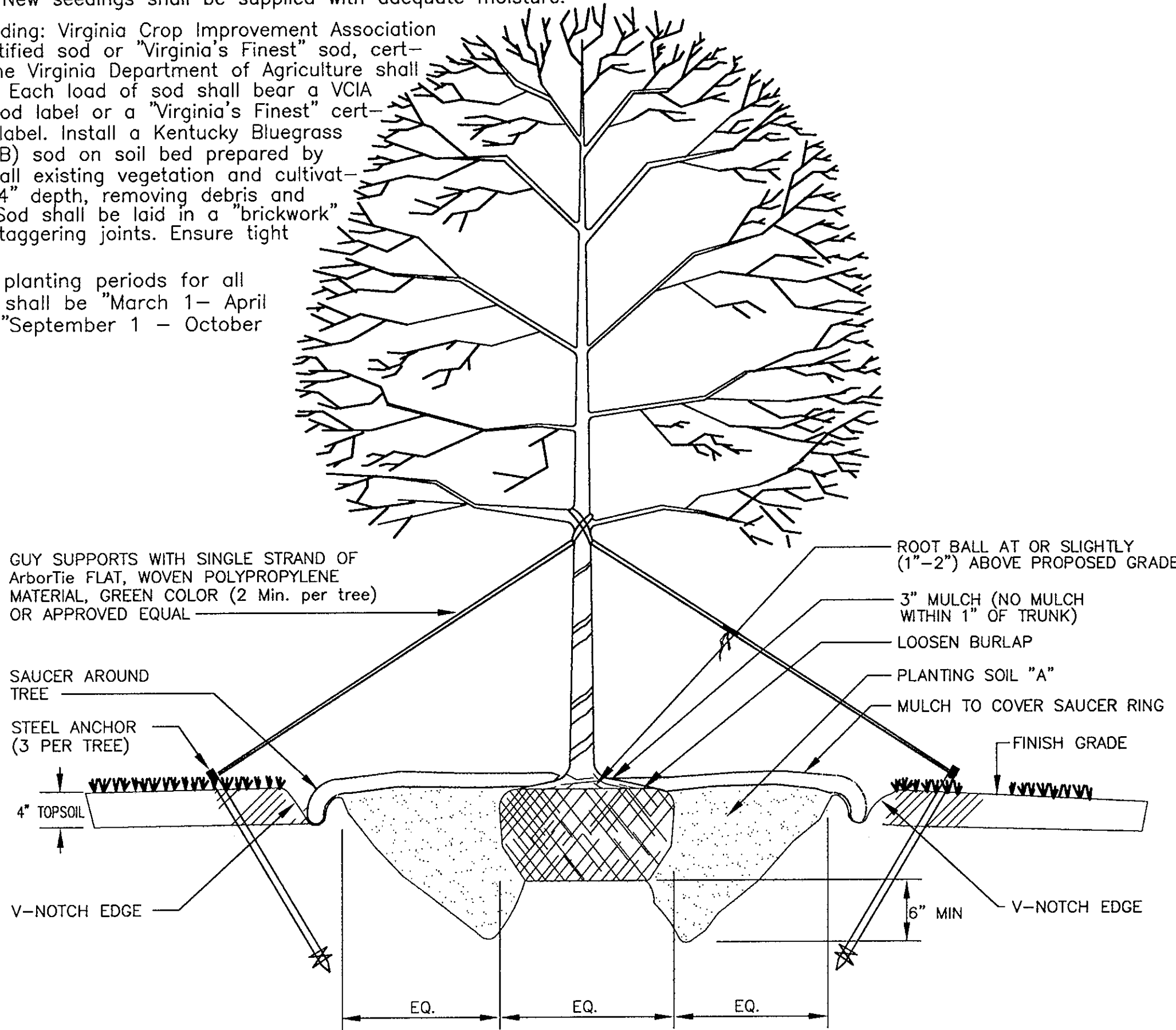
PLANTING BED EDGING

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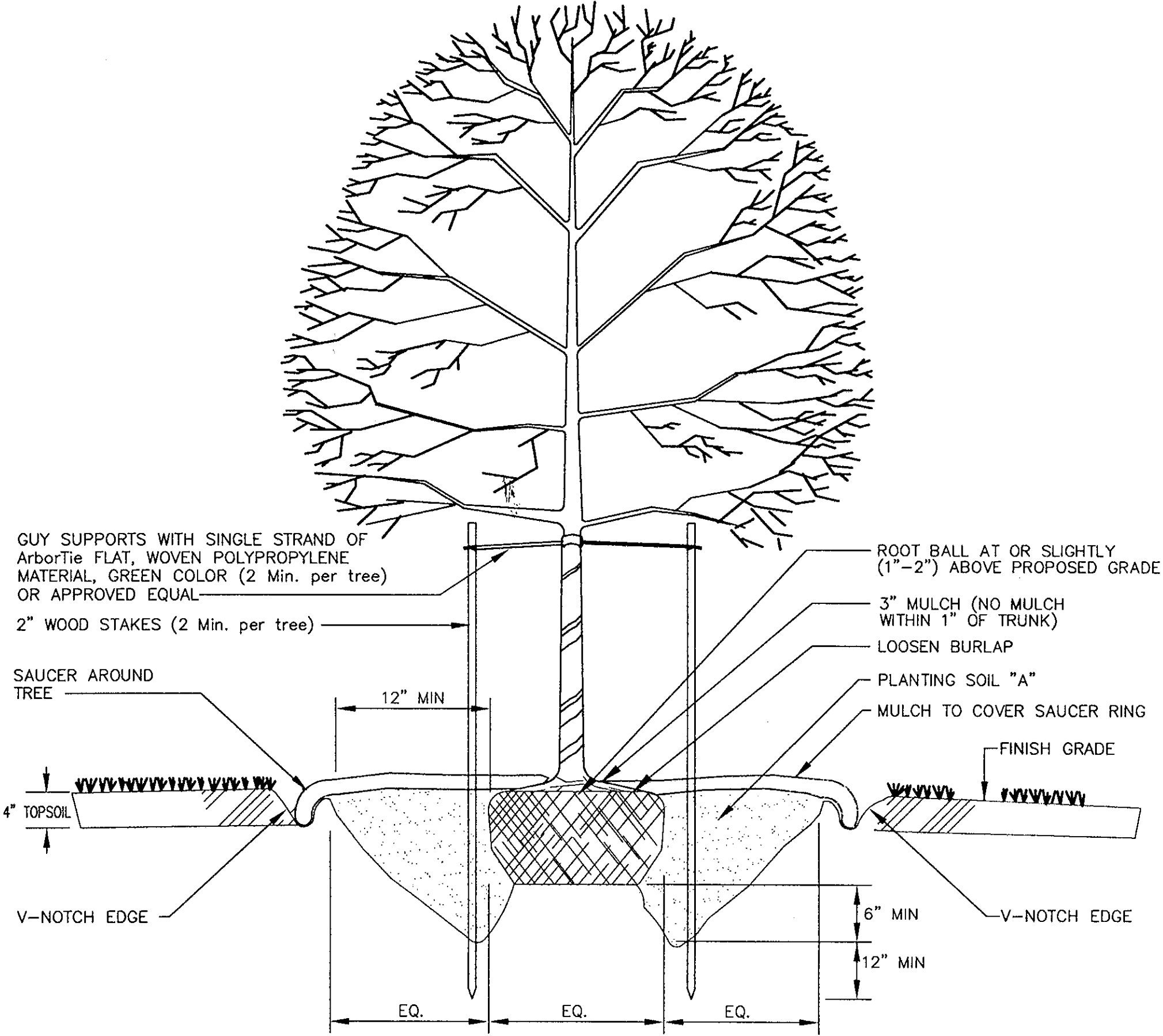
GROUND COVER & SHRUB PLANTING BED

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TREE PLANTING DETAIL OVER 2-1/2" CALIPER

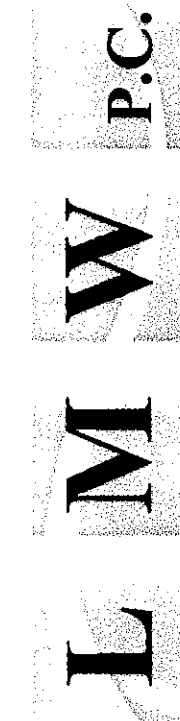
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TREE PLANTING DETAIL UNDER 2-1/2" CALIPER

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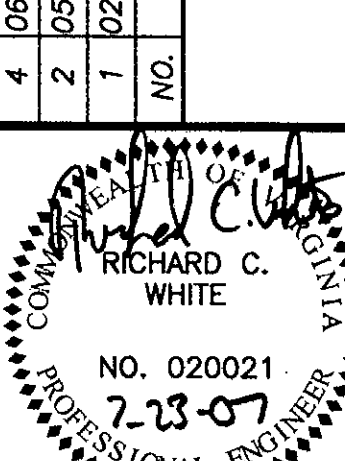
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Engineering  
Architecture  
Surveying  
Landscape Design

NEW STORE SITE: R-391  
VINTON MAGISTERIAL DISTRICT  
ROANOKE COUNTY, VIRGINIA

NO.	DATE	DESCRIPTION	BY
4	06/10/07	Per VDOT	MCP
2	05/25/07	Per Kroger Comments	MCP
1	02/28/07	Per Roanoke County Comments	MBH
NO.	DATE	DESCRIPTION	BY



Designed By	MBH
Drawn By	MBH
Checked By	RCW
Approved By	RCW
Submitted By	RCW
Drawing	3155A_Landscape details R5Y4.dwg
Date	11/20/06
Scale	1"=50'
Commission No.	3155A