SYMBOL	QTY	BOTANICAL NAME COMMON NAME	ROOT	SIZE	SPACING	REMARKS
TREES	 	<u> </u>				
	21	Betula nigra River Birch	B&B	10' Ht. Min.	AS SHOWN	3 STEMS MATCHING
	22	Gleditsia triocanthus var. Inermis Shademaster Honey Locust	B&B	2 ½" Cal	AS SHOWN	CLEAR LIMBED TO 6' MATCHING
Manual Committee of the	9	Juniperus virginiana Eastern Red Cedar	B&B	13'-14' Tall	AS SHOWN	MATCHING

SHRUBS						~~~
*		llex glabra inkberry		3 gal.	8, OC	FULL, HEAVY BRANCHED
O	317	Juniperus communis var. 'Depressia effusa' Common Juniper		3 gal.	4' OC	FULL
0	64	Rhododendron catawbiense Mountain Rosebay	B&B	24-30" Tall	AS SHOWN	FULL, HEAVY BRANCHED
0	22	Rhododendron maximum Rosebay Rhododendron	В&В	24-30" Tall	AS SHOWN	FULL, HEAVY BRANCHED
Ø	19	Viburnum nudum		3 gal.	AS SHOWN	FULL
GRASSES						
E LINE	472	Pennisetum alopecuroides 'Hameln' 'Hameln' Fountain Grass		1 gal.	4' OC	FULL
		Schizachyrium scoparium Little Bluestem		2" plug	1' OC	72 CELLS PER TRAY
لنستنت	CIMA	Little Didestelli		- 5.03		I .

LANDSCAPE PLANT KEY FOR BIORETENTION AREAS

SYMBOL	QTY	BOTANICAL NAME COMMON NAME	ROOT	SIZE	SPACING	REMARKS
TREES						
\bigcirc	24	Acer rubrum Red Maple	B&B	2 ½" Cal	AS SHOWN	SINGLE LEADE CLEAR LIMB TO 6' MATCHING
E STORY	8	Amelanchier canadensis Serviceberry	В&В	6'-7' Clump	AS SHOWN	3-5 STEMS 1" CAL./STEM
\Re	7	Chionanthus virginicus Fringe Tree	В&В	5'-6' Tall	AS SHOWN	MIN. 1" CAL. EACH TRUNK
SHRUBS	ļ		}	<u> </u>	}	
総	17	Cephalanthus occidentalis Buttonbush		1 gal.	AS SHOWN	FULL, WELL BRANCHED
	9	Cornus amomum Silky Dogwood		3 gal.	AS SHOWN	FULL, WELL BRANCHED
(V)	7	Lindera benzoin Common Spicebush		1 gal		FULL, WELL BRANCHED
\odot	11	Viburnum dentatum Arrowwood Viburnum		3 gal.		FULL, WELL BRANCHED
GRASSES						
***	212	Acorus calamus Sweet Flag		2" plug	3' OC	72 CELLS PER TRAY
举	133	Andropogon virginianus Broomsedge		2" plug	3' OC	72 CELLS PER TRAY
紫	200	Panicum virgatum Switchgrass		2" plug	3' OC	72 CELLS PER TRAY

TOTAL SITE AREA TO BE SEEDED = 15.2 ACRES TOTAL SITE AREA TO BE SODDED = .36 ACRE

- 1. LANDSCAPE CONTRACTOR TO VERIFY ALL PLANT QUANTITIES. QUANTITIES SHOWN GRAPHICALLY ON THE PLAN SHALL OVERRIDE PLANT LIST QUANTITIES.
- 2. ALL TREES AND SHRUBS SHALL CONFORM TO ANSI Z60.1 STANDARDS.
- 3. CONTRACTOR TO SUBMIT ANY PLANT SUBSTITUTIONS TO LANDSCAPE ARCHITECT FOR APPROVAL. NO SUBSTITUTIONS WILL BE PERMITTED WITHOUT THE APPROVAL OF THE LANDSCAPE ARCHITECT.

4. COORDINATE LANDSCAPING WITH SIGN LOCATIONS LANDSCAPE NOTES

1. ALL SAUCERS SHALL BE SOAKED WITH WATER AND MULCHED IMMEDIATELY FOLLOWING PLANTING.

2. PRUNING: ALWAYS RETAIN NORMAL PLANT SHAPE, NEVER CUT ANY TREE'S CENTRAL LEADER. PRUNING/THINING SHALL BE LIMITED TO ONLY DAMAGED PORTIONS OF FOLLIAGE. ALL PRUNING SHALL CONFORM TO ACCEPTED STANDARDS ESTABLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMAN.

3. THE TOP OF ALL ROOT BALLS SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE, AS BORN TO PREVIOUS GROWING CONDITIONS.

- 4. TOPSOIL SHALL BE PROVIDED BY LANDSCAPE CONTRACTOR AND USED FOR BACKFILLING ALL PITS FOR PLANTS.
- 5. ALL PLANTS SHALL BE GUARANTEED TO BE IN HEALTHY CONDITION FOR ONE (1) YEAR AFTER ACCEPTANCE BY OWNER OF ALL PLANT MATERIAL.
- 6. ALL PLANT MATERIAL SHALL BE MULCHED WITH A MINIMUM 4" LAYER OF SEASONED, WEED-FREE SHREDDED PINE BARK MULCH OR PINE STRAW.
- 7. ALL DISTURBED AREAS THAT ARE NOT PLANTED WITH LANDSCAPE MATERIAL SHALL BE SEEDED IN ACCORDANCE WITH THE WRITTEN SPECIFICATIONS.
- 8. PLANTING PLAN MAY REQUIRE MINOR FIELD ADJUSTMENTS DUE TO EXISTING SITE CONDITIONS.

9. LOCATE PLANT MATERIALS AS SHOWN ON PLANTING PLAN. FIELD LOCATE AS REQUIRED TO EXISTING SITE CONDITIONS. SOIL SHALL BE AMMENDED AS INDICATED BY SOIL TESTING TO PROVIDE SUFFICIENT FRIABLE TOPSOIL FOR HEALTHY AND VIGOUROUS GROWTH.

- 10. ALL TREES SHALL MEET OR EXCEED THE MINIMUM STANDARD SET BY THE U.S.D.A. STANDARD FOR NURSERY STOCK SPONSORED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC., WASHINGTON, D.C. ALL PLANT MATERIALS SHALL BE TRUE TO BOTANICAL NAME AND NOMENCLATURE, MEET MINIMUM HEIGHT AND SPREAD REQUIREMENTS, AND FREE OF ALL DISEASE AND INSECT INFESTATION.
- 11. LANDSCAPE CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS BEFORE PROCEEDING WITH WORK. THE LOCATION OF ALL UNDERGROUND STRUCTURES AND UTILITIES IS THE RESPONSIBLITY OF THE LANDSCAPE CONTRACTOR. FAILURE TO CONTACT LOCAL UTILITY PROVIDERS AND SUBSEQUENT DAMAGE IS ENTIRELY THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.
- 12. APPLY PRE-EMERGENT HERBICIDE TO ALL PLANTING AREAS PER MANUFACTURER'S SPECIFICATIONS. AFTER SUITABLE APPLICATION TIME, AUGER TREE HOLES TO TWICE THE DEPTH AND WIDTH OF TREE BALL. ROTO-TILL ALL PLANTING AREAS TO A MINIMUM 8" DEPTH. ANY ADDITIONAL TOPSOIL REQUIRED SHALL BE FULLY INCORPORATED BY ROTO-TILLING INTO EXISTING SOIL. ALL INSTALLED TREES WILL HAVE A SOIL "SAUCER" TO RETAIN MOISTURE AROUND THE TREE. SHRUBS IN CONTAINERS SHALL HAVE ROOT MASS BROKEN UP AND INSTALLED IN SLIGHTLY-MOUNDED PLANTING BEDS. ALL PLANTING AREAS SHALL BE TOP DRESSED WITH 4" OF CLEAN SHREDDED PINE BARK MULCH, PINE STRAW OR APPROVED EQUAL.
- 13. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR THE CARE AND MAINTENANCE OF NEWLY-INSTALLED PLANT MATERIALS UNTIL SUBSTANTIAL COMPLETION OR BENEFICIAL OCCUPANCY OF THE PROJECT, WHICHEVER OCCURS LAST. LANDSCAPE CONTRACTOR SHALL EXTEND A ONE YEAR REPLACEMENT WARRANTY ON ALL PLANT MATERIALS. ALL PLANT MATERIALS NOT EXHIBITING HEALTHY AND VIGOROUS GROWTH SHALL BE REPLACED BY THE LANDSCAPE CONTRACTOR WITH MATERIALS OF EQUAL SIZE. PHYSICAL DAMAGE TO PLANT MATERIALS OR OR LACK OF REQUIRED REGULAR MAINTENANCE WILL VOID CONTRACTOR WARRANTY.
- 14. THIS PLAN IS FOR PLANTING PURPOSES ONLY. FOR BUILDING, UTILITIES & LAYOUT REFER TO THOSE PLANS.
- 15. ANY SUBSTITUTIONS OF PLANT MATERIAL SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO THE SUBSTITUTION
- 16. ALL TREES WILL BE INSTALLED AS NOTED AND FITTED WITH A GATOR BAG IRRIGATION DEVICE.

PLANTING MIX:

STOCKPILE TOPSOIL FROM GRADING OPERATIONS AND REDISTRIBUTE AFTER FINAL GRADES ARE ATTAINED. PLANTING MIX SHALL BE NATURAL, FERTILE, AGRICULTURAL TOPSOIL, CAPABLE OF SUSTAINING VIGOROUS PLANT GROWTH. IT MAY BE DEVELOPED BY AMENDING THE EXISTING SOIL OR REMOVING THE EXISTING SOIL AND REPLACING WITH NEW SOIL. IT SHALL BE OF UNIFORM COMPOSITION THROUGHOUT, WITH ADMIXTURE OF SUBSOIL. FREE OF STONES, LUMPS, LIVE PLANTS AND THEIR ROOTS, STICKS, AND ORGANIC OR OTHER EXTRANEOUS MATTER. PLANTING MIX SHALL NOT BE USED WHILE IN A FROZEN OR MUDDY CONDITION. UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS THE PLANTING MIX SHALL CONTAIN THE FOLLOWING SPECIFIED PERCENTAGES OF CONSTITUENTS:

CLAY - MINIMUM 10% - MAXIMUM 20% CLAY (RED CLAY, WELL PULVERIZED); CLAY SHALL BE STERILE. SILT - MINIMUM 30% - MAXIMUM 50%.

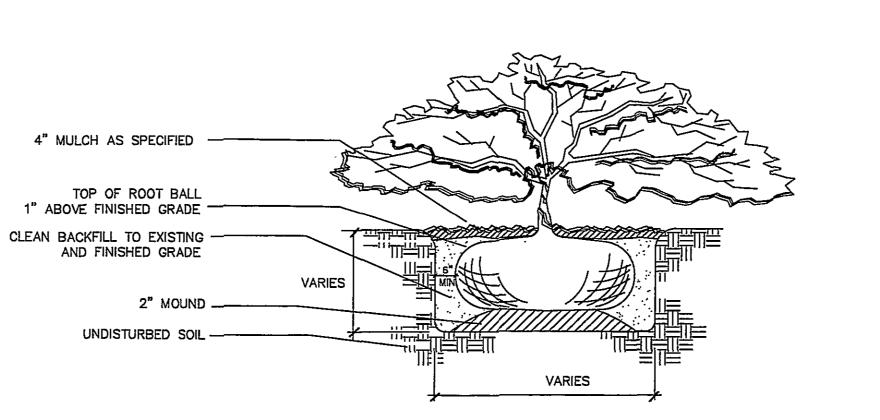
COARSE SAND - MINIMUM 50% - MAXIMUM 75%. (COARSE SAND AND FREE OF ROCK, 1.0mm TO 0.5mm IN DIAMETER).

ORGANIC MATERIAL - MINIMUM 5% - 8%

ORGANIC MATERIAL IS DEFINED AS COMPOST/HUMUS SUCH AS SAWDUST OR LEAF MOLD THAT HAS COMPLETED THE DECOMPOSITION PROCESS. PERCENTAGE OF ORGANIC MATTER SHALL BE DETERMINED BY LOSS ON IGNITION, OF MOISTURE FREE SAMPLES DRIED AT 65 DEGREES.

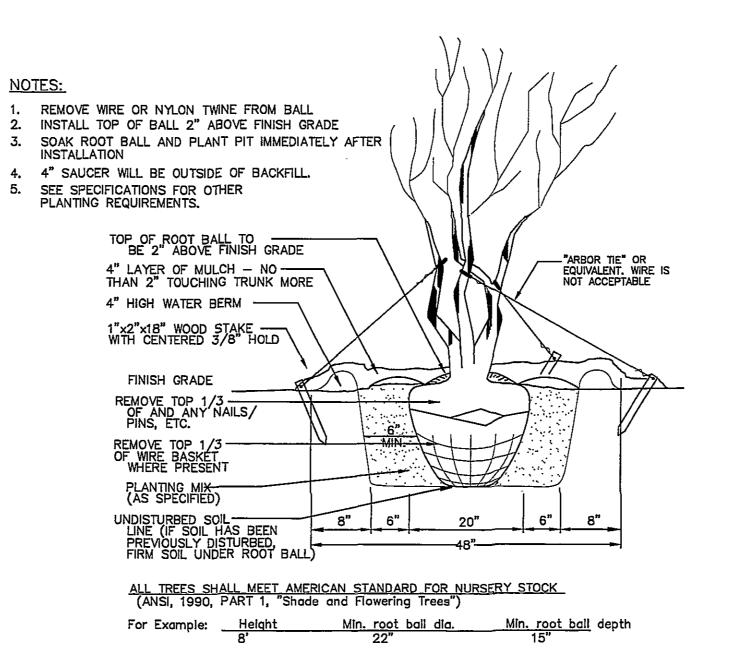
PLANT MIX SHALL HAVE AN ACIDITY RANGE OF PH 5.5 TO-PH 7.0 ELEMENTS - THE PLANTING MIX SHALL HAVE THE FOLLOWING NUTRIENTS AT THE SPECIFIED PERCENT BASE SATURATION, TO BE DETERMINED BY SOIL TEST.

> CALCIUM - 55% TO 80% MAGNESIUM - 10% TO 30% POTASSIUM - 5% TO 8%



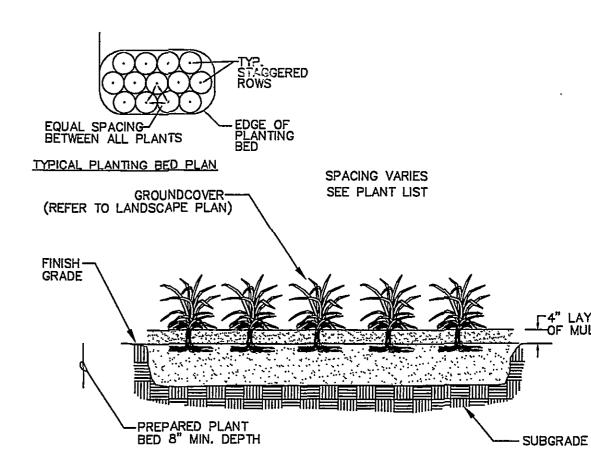
SHRUB PLANTING DETAIL

NO SCALE



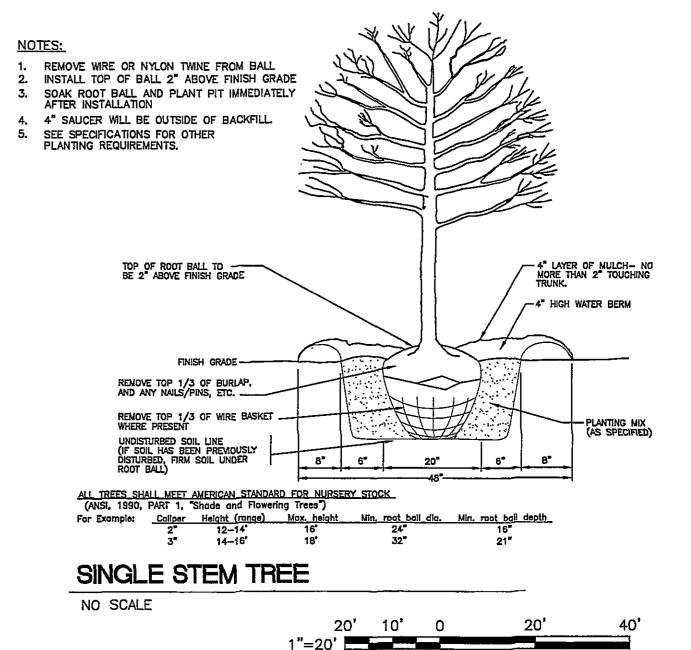
MULTI- STEM TREE

NO SCALE



GROUNDCOVER PLANTING

NO SCALE

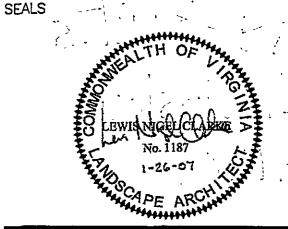


GRAPHIC SCALES

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ARCHITECTS ENGINEERS PLANNERS

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David E. Musacchio & Associate Cookeville, Tennessee

WESTERN VIRGINIA REGIONAL JAIL

WESTERN VIRGINIA REGIONAL JAIL AUTHORITY

	ROANOKE	COUNTY, VIRGINIA	
REV	DATE	DESCRIPTION	Ī
1	10/02/06	ADDENDUM 1	J
4	11/14/06	REVIEW COMMENTS	
5	01/29/07	GENERAL REVISIONS	
			┼╴ ┼╴
COMM	NO: 100	75	
ISSUE	DATE: FEBI	RUARY 1, 2007	
DESIG	NED BY:	RBC DRAWN BY:	F
CHEC	KED BY:	RJH SUBMITTED BY:	
		MATTERN & MATTERN, IS RESERVED.	IN

Land Planning

Landscape Details, Notes and Plant Key

LP104