

REVISIONS				Rev. By	App. By
No.	Date	Description			

Computer File Name:
 DATE: JULY 2012 SCALE: 1" = 50'



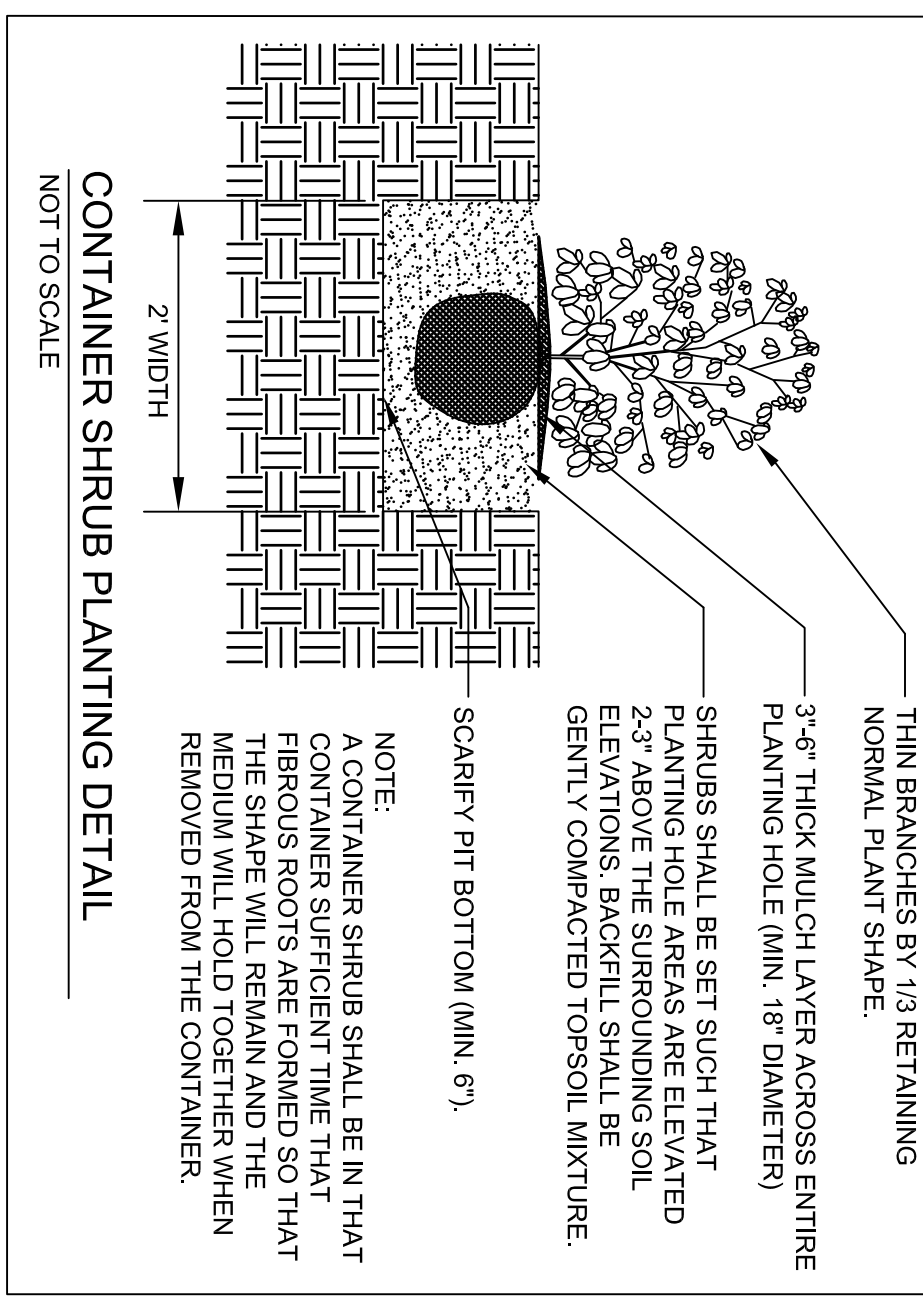
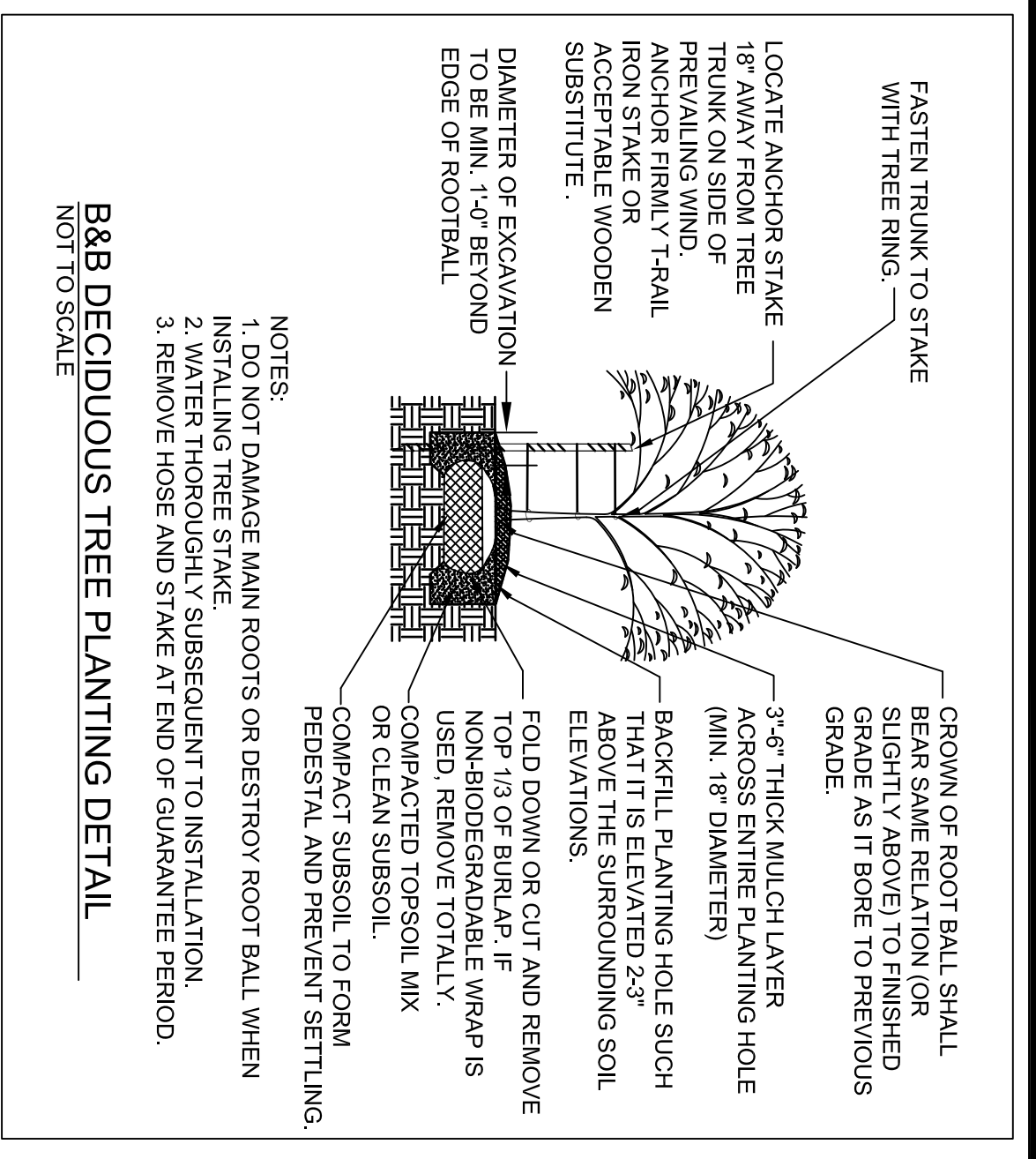
Northern Virginia Stream Restoration Bank
 Colvin Run - Baron Cameron Park
 Fairfax County, Virginia

Overall Site Exhibit

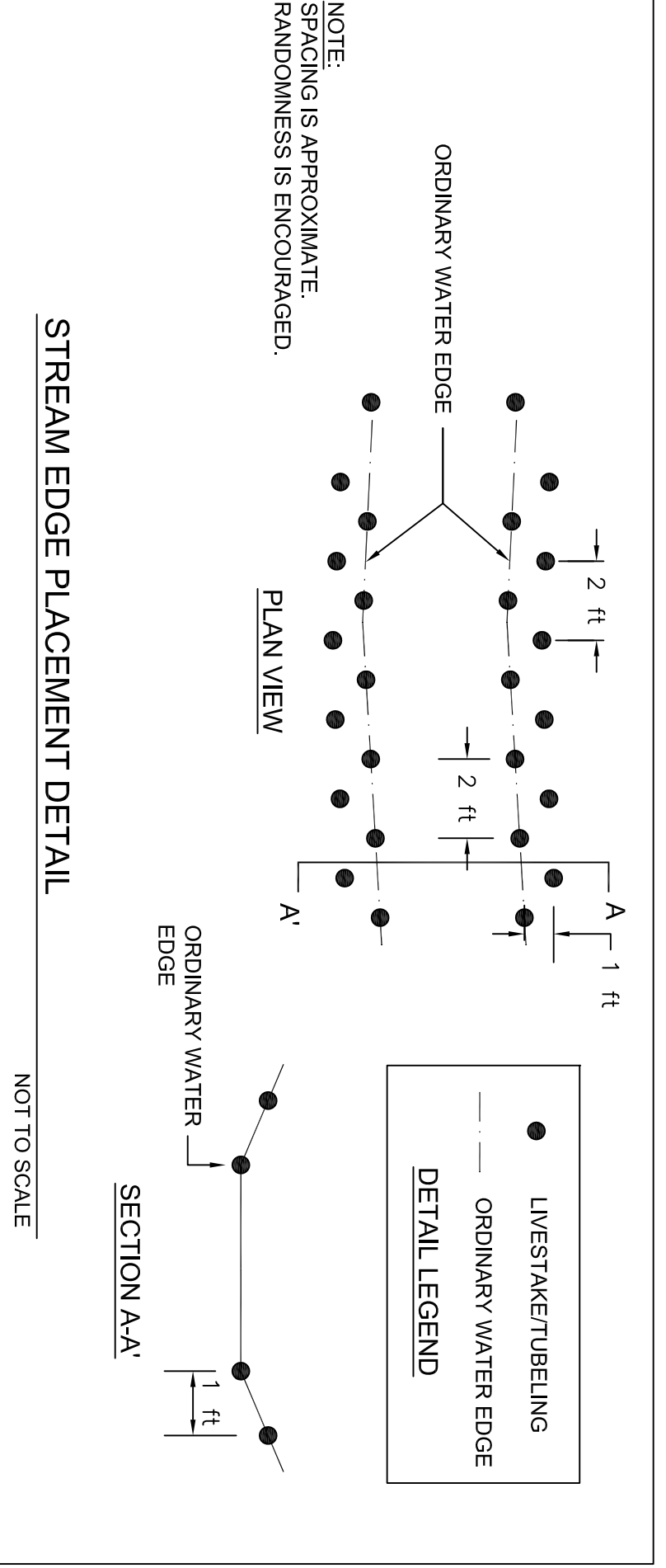
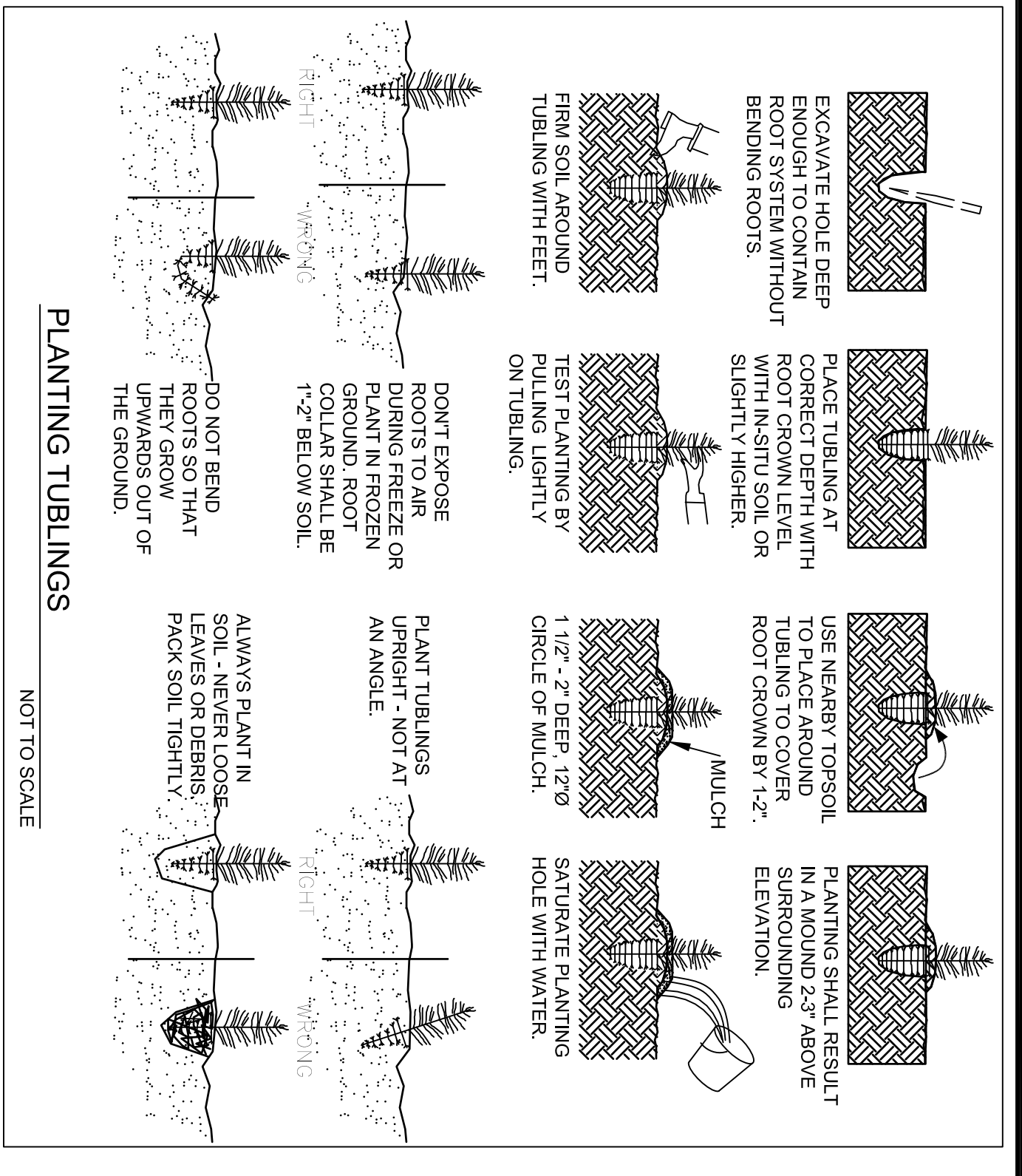
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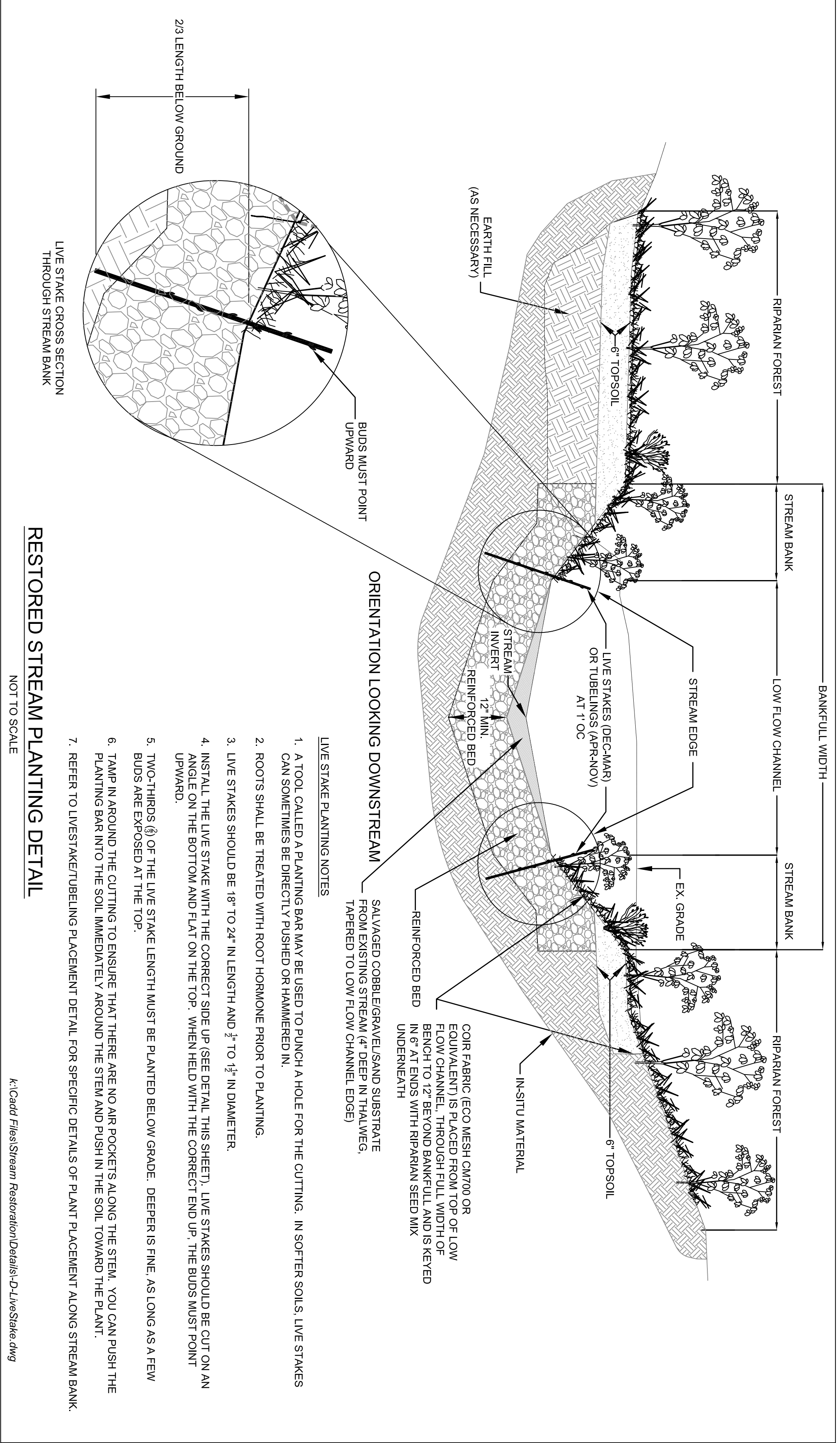
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THIS PLAN IS FOR PLANTING PURPOSES ONLY.



PLEASE REFER TO PLANTING PLAN SHEETS FOR LEGEND



RESTORED STREAM PLANTING DETAIL
NOT TO SCALE

PLANTING SPECIFICATIONS

1. PLANT DETAILS ARE INCORPORATED INTO THIS SPECIFICATION BY REFERENCE.
2. THE SUPPLIER OF ALL SEEDS AND/OR VEGETATION SHALL CERTIFY THAT THE ORIGIN OF THE SEEDS FROM WHICH THE PLANTS OR SEEDS WERE PRODUCED IS FROM HARDINESS ZONES 6 AND 7 FROM THE EASTERN OR CENTRAL PORTIONS OF THE U.S. PRIOR TO PLANTING.
3. ANY NURSERY SUPPLYING THE STOCK SHALL PROVIDE A CURRENT NURSERY INSPECTION CERTIFICATE FROM THE STATE DEPARTMENT OF AGRICULTURE AND SO PRODUCE THE BEST THIRTY DAYS NOTICE FOR FIELD AND SOIL TESTING. IN MASS INSPECT THE PLANT SOURCE AREAS AT NURSERY DISCRETION, ANY SUCH INSPECTION IS NOT DEEMED APPROVAL OF THE PLANT MATERIALS.
4. ALL PLANTS SHALL BE SET STRAIGHT, OR PLUMB.
5. PLANTING SHALL ONLY BE PERMITTED BETWEEN SEPTEMBER 30 AND MARCH 30. NO PLANTING SHALL OCCUR WHEN THE SOIL IS FROZEN. SEEDING SHALL BE COMPLETED DURING MARCH THROUGH MAY OR SEPTEMBER THROUGH NOVEMBER. THESE TIME LIMITS MAY NOT BE MODIFIED UNLESS APPROVED BY WETLAND STUDIES AND SOLUTIONS, INC. IN ADVANCE WITH THE BURNI BURNS SOLELY BY THE CONTRACTOR.
6. PLANTING HOLES FOR BARE ROOT TREES SHALL BE 1-2\"/>

1. SEED SHALL HAVE BEEN COLLECTED THE SAME YEAR OF SEEDING. A SEED GERMINATION AND PURITY RATE OF 75% IS REQUIRED. EVIDENCE OF SUCH SHALL BE PROVIDED TO OWNERS REPRESENTATIVE PRIOR TO PLANTING.
2. THE SPECIFIED SEED SHALL BE BROADCAST IN AREAS SPECIFIED ON THE PLANTING PLAN. FOLLOWING SEEDING, MECHANICALLY SOW SEED TO A DEPTH OF 1/8TH OF AN INCH BY THE USE OF A HAND RAKE.
3. THE LANDSCAPE CONTRACTOR SHALL INSPECT THE AREAS AND CONDITIONS UNDER WHICH THE SEEDING WORK IS TO BE PERFORMED PRIOR TO COMMENCING WORK. IF CONDITIONS ARE DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK, HE/SHE SHALL NOTIFY THE OWNERS REPRESENTATIVE VERBALLY AND IN WRITING AND POSTPONE COMMENCING WORK UNTIL THE UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
4. PRIOR TO SEEDING, THE TOP SOIL SHALL BE RAKED SMOOTH AND CLEARED OF ALL STONES LARGER THAN 5\"/>

REVISIONS

No.	Date	Description

DATE: JULY 2012 SCALE: N/A

Horizontal Datum: N/A
Vertical Datum: N/A
Boundary and Topo Source: N/A

Design	
NAS	

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Northern Virginia Stream Restoration Bank
Colvin Run - Baron Cameron Park
Fairfax County, Virginia

Planting Notes and Details

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BARON CAMERON VEGETATION SCHEDULE

CONTAINER PLANTING ZONE	SPECIES GROUP ^{1,2}	SPECIES ³	INDICATOR STATUS	FUNCTIONS	PRIMARY SPECIES	PLANT PART	SEASON	PLANT SPACING ²	CONTAINER SIZE RATE AND QUANTITY ³	PLANTING QUANTITIES (BASED ON ONE-GALLON SIZE) ¹						
										A	B	C	D			
RIPARIAN FOREST	1	QUERCUS ALBA (WHITE OAK)	FAOV	Food	Blue jays, woodpeckers, turkey vultures, crows, sparrows, other small mammals	N/A	Fall, Winter	SEE NOTE #3	ONE-GAL PLANTS	171	86	39	135			
		QUERCUS FLETCHERS (PIN OAK)	FAOV	Food												
	2	ACER RUBRUM (RED MAPLE)	FAOV	Food	Fringes, chickadees, sparrows, robins, goldfinches, other birds	Seeds, buds, flowers, fruit	Spring, summer	SEE NOTE #3	TUBES (BASED ON ONE-GAL)	86	208	18	68			
		BETULA NIGRA (SWAMP BIRCH)	FAOV	Food												
	3	LEUCOPHYA (AMERICAN HOLLY)	FAOV	Food cover, reproductive areas	Robins, Mockers, nuthatches, veery thrush	Fruit, plant	All	SEE NOTE #3	TUBES (BASED ON ONE-GAL)	57	208	12	45			
		AMELANCHIER CANADENSIS (CANADIAN SERVICEBERRY)	FAOV	Food cover												
	4	CORNUS FLORIDA (FLOWERING DOGWOOD)	FAOV	Food	Worm-eating caterpillars, robins, towhee, wood thrush, nuthatches	Fruit, plant	Spring, summer	SEE NOTE #3	ONE-GAL PLANTS	150	208	18	68			
		CORNUS AMERICANA (AMERICAN HAZELNUT)	FAOV	Food cover												
	5	CORNUS STYRACIFLUA (SWEET GUM)	FAOV	Food	Fringes, chickadees, chickadees, sparrows, sparrows	Seeds, plant	Summer, fall, winter	SEE NOTE #3	ONE-GAL PLANTS	100	208	12	45			
		LIBANURUS STRYACIFLUA (BLACK-HAW)	FAOV	Food cover												
	RIPARIAN FOREST QUANTITY SUBTOTALS											400	400	84	318	
	STREAM BANK	6	CORNUS MARSHALLI (SPINY DOGWOOD)	FAOV	Food	Cardinal, thrasher, thrushes, cedar waxwings, nuthatches	Fruit	Summer, fall, winter	SEE NOTE #3	ONE-GAL PLANTS	0	208	208	450		
			LEX VERNICOLA (COMMON WINTERBERRY)	FAOV	Food cover, reproductive areas	Blue jays, woodpeckers, turkey vultures, crows, sparrows, other small mammals	Fruit, plant	All	SEE NOTE #3	ONE-GAL PLANTS	205	208	18	68		
	STREAM EDGE QUANTITY SUBTOTALS												205	208	18	68
													413	589	208	450
	SEEDING SCHEDULE											1213	625	889	2025	

SEED PLANTING ZONE	SPECIES GROUP ^{1,2}	SPECIES ³	INDICATOR STATUS	FUNCTIONS	PRIMARY SPECIES	PLANT PART	SEASON	SEEDING RATE (LBS/AC)	AREA (S/F)	SEEDING QUANTITIES				
										A	B	C	D	
RIPARIAN BUFFER SEED MIX	7	LOQUUM MULTIFLORUM (ANNUAL REGENT GRASS)	FAOV	Food	Sparrows, finches, small mammals	Seeds	Summer, fall	4500	0.81	27.45	0.90	5.40	20.25	
		CAREX SCOPARIA (BLUNT BROOM SEDGE)	FAOV	Food cover										
	8	CAREX VILLOSA (FOX SEDGE)	FAOV	Food	Song birds, wetland	Seeds	Summer, fall	0.20	0.81	0.11	0.00	0.02	0.09	
		CYPERUS ESCULENTUS (CHIFFA)	FAOV	Food										
	9	ELIUS SPERMIS (PEREKAK WILD RICE)	FAOV	Food	Song birds, small mammals	Seeds, stems	Summer, fall	1000	0.81	6.10	0.20	1.20	4.50	
		ELIUS SPERMIS (PEREKAK WILD RICE)	FAOV	Food										
	10	ASTER NOVAE-ANGLAE (NEW ENGLAND ASTER)	FAOV	Food	Butterflies, song birds	Seeds	Summer, fall	0.10	0.81	0.06	0.00	0.01	0.05	
		ASTER PREMIATIFLOUS (20-ZIG ASTER)	FAOV	Food										
	11	ELIUS SPERMIS (PEREKAK WILD RICE)	FAOV	Food	Butterflies, song birds	Seeds	Summer, fall	0.10	0.81	0.06	0.00	0.01	0.05	
		ELIUS SPERMIS (PEREKAK WILD RICE)	FAOV	Food										
	12	HELIUM ANTHALMUM (COMMON SNEEZEWEED)	FAOV	Food	Butterflies, song birds	Seeds	Summer, fall	0.20	0.81	0.11	0.00	0.02	0.09	
		HELIUM ANTHALMUM (COMMON SNEEZEWEED)	FAOV	Food										
	13	HELIUM ANTHALMUM (COMMON SNEEZEWEED)	FAOV	Food	Butterflies, song birds	Seeds	Summer, fall	0.20	0.81	0.11	0.00	0.02	0.09	
		HELIUM ANTHALMUM (COMMON SNEEZEWEED)	FAOV	Food										
	14	HELIUM ANTHALMUM (COMMON SNEEZEWEED)	FAOV	Food	Butterflies, song birds	Seeds	Summer, fall	0.20	0.81	0.11	0.00	0.02	0.09	
		HELIUM ANTHALMUM (COMMON SNEEZEWEED)	FAOV	Food										
15	HELIUM ANTHALMUM (COMMON SNEEZEWEED)	FAOV	Food	Butterflies, song birds	Seeds	Summer, fall	0.20	0.81	0.11	0.00	0.02	0.09		
	HELIUM ANTHALMUM (COMMON SNEEZEWEED)	FAOV	Food											
16	HELIUM ANTHALMUM (COMMON SNEEZEWEED)	FAOV	Food	Butterflies, song birds	Seeds	Summer, fall	0.20	0.81	0.11	0.00	0.02	0.09		
	HELIUM ANTHALMUM (COMMON SNEEZEWEED)	FAOV	Food											
SEEDING TOTALS											12190	8371	280	1838

SEED PLANTING ZONE	SPECIES	SEEDING RATE (LBS/AC)	AREA (S/F)	QUANTITY (PLANTS)
TURFGRASS AREA SEEDING SCHEDULE	KENTUCKY 31 OR TURF-TRE FILL FESCUE	9000	0.34	6480
	PERFORATED PERENNIAL RENOGRASS	500	0.34	170
	KENTUCKY BLUEGRASS	500	0.34	170
	SEEDING TOTALS		2000	8370

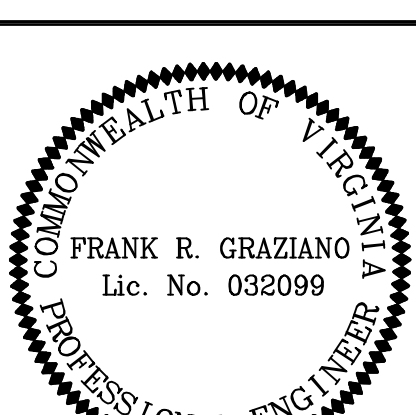
SEEDING NOTES:

- Substrates for selected species based upon availability shall be requested in writing to the contractor.
- Seeds shall not be planted if they are not certified by the state or approved by the contractor.
- Seeds shall be stored in a cool, dry place and shall be protected from moisture and rodents.
- Seeds shall be stored in a cool, dry place and shall be protected from moisture and rodents.
- Seeds shall be stored in a cool, dry place and shall be protected from moisture and rodents.

PLANTING AND SEEDING NOTES:

- It is expected and preferred that all species in each of the Species Groups are planted. The tolerances listed in this note are intended to incorporate flexibility according to species availability. A minimum Contractor to be provided is as follows:
 - 3 of the 4 species in Group 1,
 - 3 of the 4 species in Group 2,
 - 3 of the 4 species in Group 3,
 - 3 of the 4 species in Group 4,
 - 3 of the 4 species in Group 5,
 - 3 of the 4 species in Group 6,
 - 3 of the 4 species in Group 7,
 - 3 of the 4 species in Group 8,
 - 3 of the 4 species in Group 9,
 - 3 of the 4 species in Group 10,
 - 3 of the 4 species in Group 11,
 - 3 of the 4 species in Group 12,
 - 3 of the 4 species in Group 13,
 - 3 of the 4 species in Group 14, and
 - 3 of the 4 species in Group 15.
- Substrate for selected species based upon availability shall be requested in writing to the contractor.
- If the seedling is not available, the contractor shall be notified in writing to the contractor.
- The planned trees and shrubs shall be randomly spaced and species mixed throughout the planting areas.
- Container rates and quantities shown for one gallon size. For purposes of substitution, two tubelings are the equivalent of one 1-gallon container plant. In this schedule, Contractor may provide a mix of container and tubeling sizes for each species requirement, provided the ratio of tubelings to containers is not less than 2:1. Exceptions -- Group 6 (Stream Edge) shall be planted in accordance with Note #5; only between February 1 and March 31. No one gallon are required to be used for any of this Group's species.
- Stream Bank and Stream Edge zones shall be planted such that the combined mix of species is spaced approx. 3' O.C. and 1' O.C., respectively. These zones shall be planted such that each individual species in these zones is planted at these rates, resulting in lighter spacing.
- All seedling rates are expressed in pounds of pure live seed (PLS).

Northern Virginia Stream Restoration Bank
Colvin Run - Baron Cameron Park
Fairfax County, Virginia
Vegetation Schedule



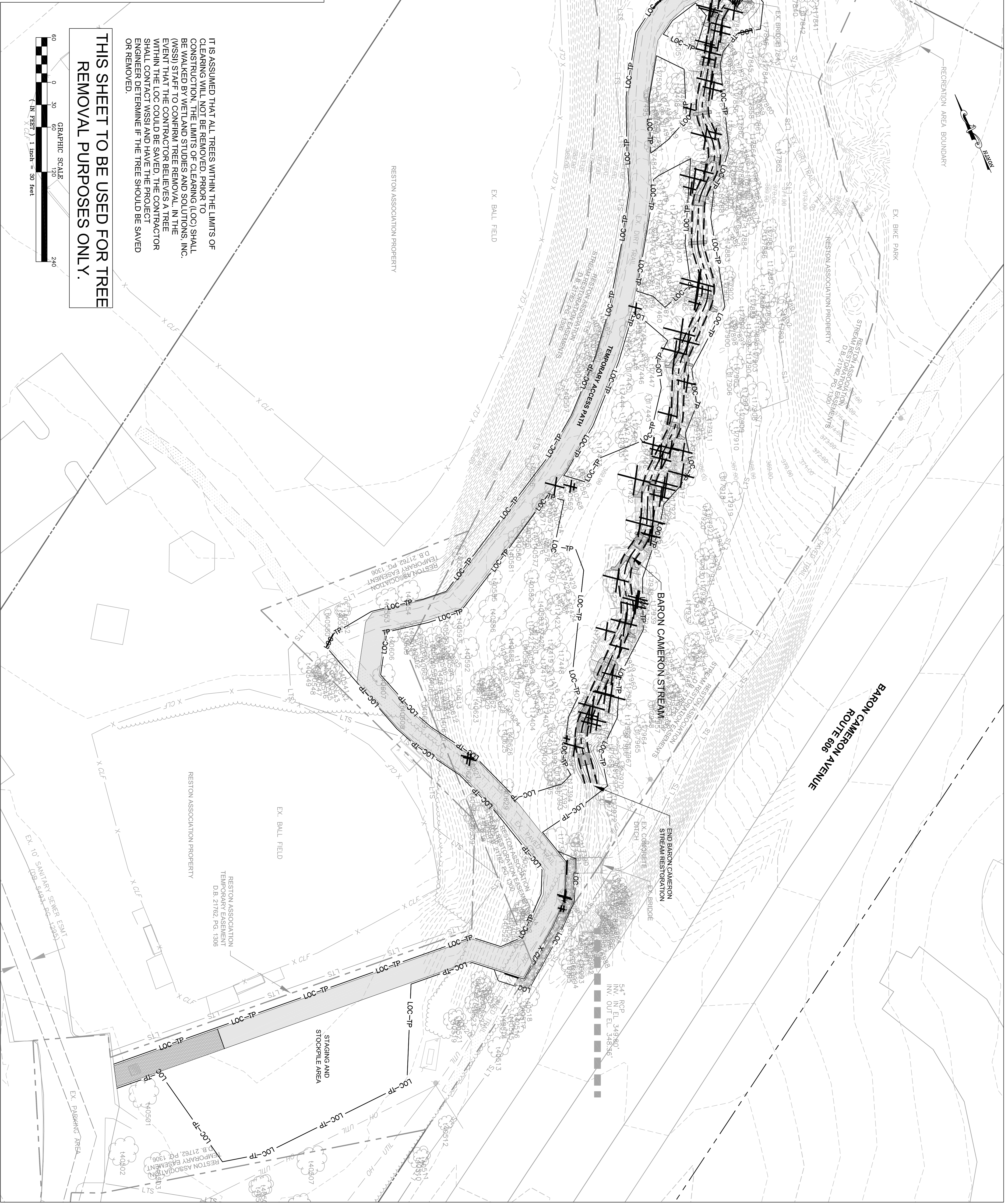
Rev. No.	Date	Description	App. By	App. Date

DATE: JULY 2012 SCALE: N/A

Design		
Drawn	JLS	Approved
Checked		
Sheet #	14 of 38	

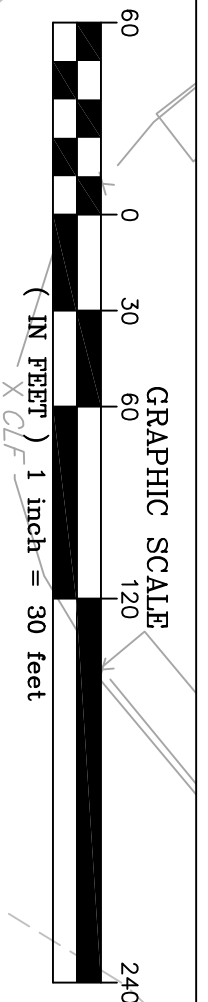


TREE REMOVAL LEGEND	
---	PROPERTY BOUNDARY
---	COMBINED STREAM ESMNT, TEMP GRADING & CONST./INGRESS-EGRESS ESMNT & PROPERTY BOUNDARY
---	COMBINED STREAM ESMNT AND TEMP GRADING & CONST./INGRESS-EGRESS ESMNT
---	COMBINED TEMP GRADING & CONST./INGRESS-EGRESS ESMNT AND PROPERTY BOUNDARY
---	TEMPORARY GRADING AND CONSTRUCTION EASEMENT AND INGRESS-EGRESS EASEMENT
---	STREAM EASEMENT
---	EXISTING CONTOURS (0.5')
---	PROPOSED CONTOURS (0.5')
---	PROPOSED STREAM CENTRALLINE
---	LIMITS OF CLEARING
---	LIMITS OF CLEARING/TREE PROTECTION
---	LIMITS OF TREE SURVEY
---	PROPOSED TOP OF BANK
---	PERENNIAL STREAM (EXISTING TOP OF BANK)
---	NONPERENNIAL STREAM (EXISTING TOP OF BANK)
---	TREES TO BE REMOVED



IT IS ASSUMED THAT ALL TREES WITHIN THE LIMITS OF CLEARING WILL NOT BE REMOVED. PRIOR TO CONSTRUCTION THE LIMITS OF CLEARING (LOC) SHALL BE WALKED BY WETLAND STUDIES AND SOLUTIONS, INC. (WSS) STAFF TO CONFIRM TREE REMOVAL. IN THE EVENT THAT THE CONTRACTOR BELIEVES A TREE WITHIN THE LOC COULD BE SAVED, THE CONTRACTOR SHALL CONTACT WSS AND HAVE THE PROJECT ENGINEER DETERMINE IF THE TREE SHOULD BE SAVED OR REMOVED.

THIS SHEET TO BE USED FOR TREE REMOVAL PURPOSES ONLY.



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DATE: JULY 2012 SCALE: 1" = 30'



Northern Virginia Stream Restoration Bank
 Colvin Run - Baron Cameron Park
 Fairfax County, Virginia

Tree Removal Plan

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