

**PLANTING SCHEDULE**

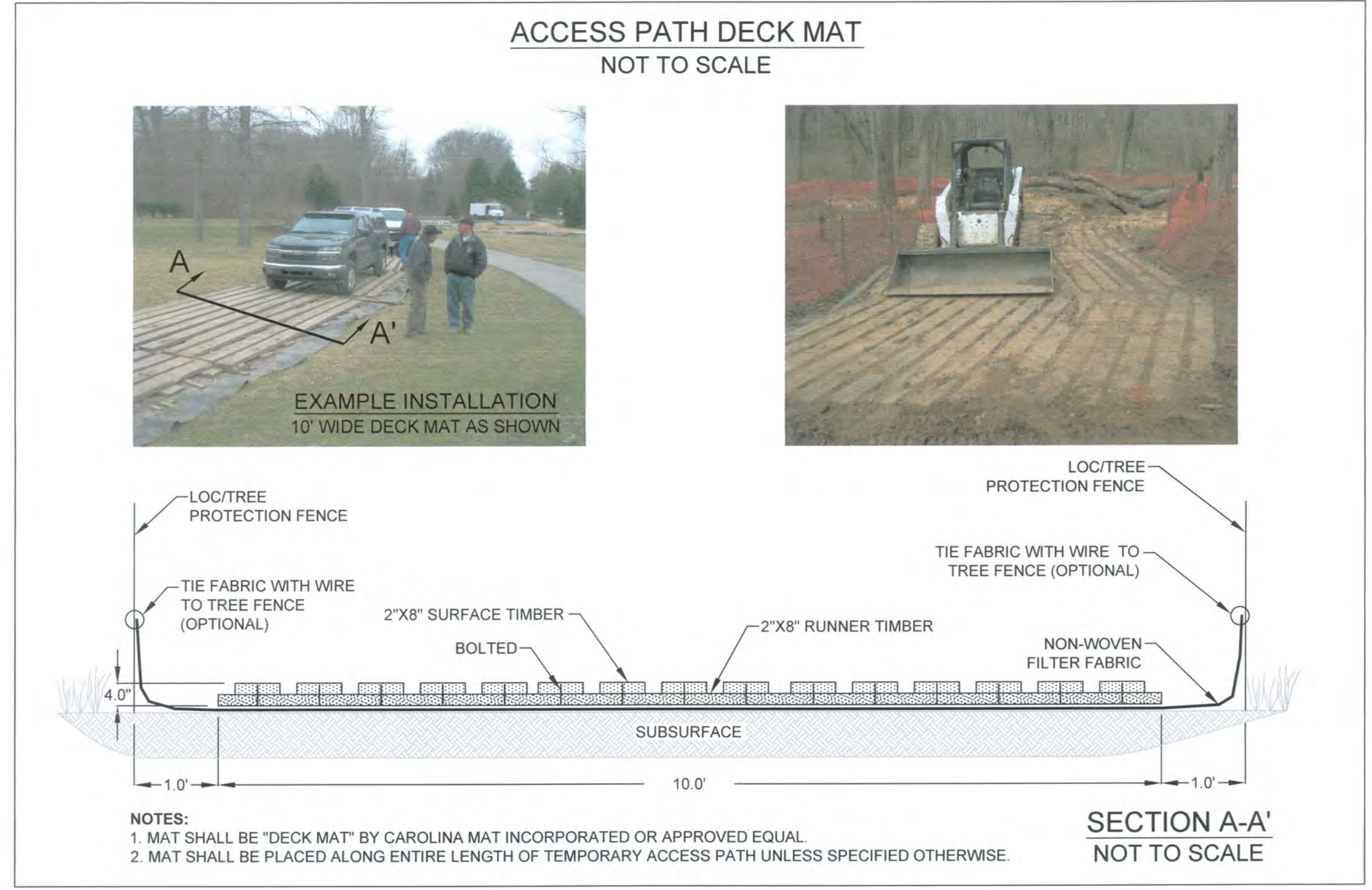
CONTAINER PLANTING ZONE	SPECIES GROUP <sup>1,2</sup>	SPECIES <sup>2</sup>	INDICATOR STATUS	PLANT SPACING <sup>3</sup>	CONTAINER SIZE, RATE, AND QUANTITY <sup>4</sup>
RIPARIAN FOREST	1	QUERCUS ALBA (WHITE OAK)	FACU-	SEE NOTE #3	300 ONE-GALLON TUBELINGS
		QUERCUS BICOLOR (SWAMP WHITE OAK)	FACW+	SEE NOTE #3	300 ONE-GALLON TUBELINGS
		QUERCUS PALustris (PIN OAK)	FACW-	SEE NOTE #3	600 TUBELINGS
		QUERCUS PHELLLOS (WILLOW OAK)	FAC+	SEE NOTE #3	600 TUBELINGS
		QUERCUS RUBRA (NORTHERN RED OAK)	FACU-	SEE NOTE #3	MIX AT 1:2 RATIO (SEE NOTE #4)
	2	ACER NEGUNDO (BOX ELDER)	FAC+	SEE NOTE #3	150 ONE-GALLON TUBELINGS
		ACER RUBRUM (RED MAPLE)	FAC	SEE NOTE #3	300 TUBELINGS
		BETULA NIGRA (RIVER BIRCH)	FACW-	SEE NOTE #3	300 TUBELINGS
		LIQUIDAMBAR STYRACIFULA (SWEET GUM)	FAC	SEE NOTE #3	MIX AT 1:2 RATIO (SEE NOTE #4)
		NYSSA SYLVATICA (BLACK GUM)	FACW+	SEE NOTE #3	MIX AT 1:2 RATIO (SEE NOTE #4)
	3	PLATANUS OCCIDENTALIS (AMERICAN SYCAMORE)	FACW-	SEE NOTE #3	100 ONE-GALLON TUBELINGS
		ILEX OPACA (AMERICAN HOLLY)	FACU+	SEE NOTE #3	200 TUBELINGS
					MIX AT 1:2 RATIO (SEE NOTE #4)
SHRUB LAYER	4	AMELANCHIER CANADENSIS (CANADIAN SERVICEBERRY)	FAC	SEE NOTE #3	150 ONE-GALLON TUBELINGS
		CERCIS CANADENSIS (EASTERN REDBUD)	FACU-	SEE NOTE #3	300 TUBELINGS
		CORNUS FLORIDA (FLOWERING DOGWOOD)	FACU-	SEE NOTE #3	300 TUBELINGS
		CORYLUS AMERICANA (AMERICAN HAZELNUT)	FACU-	SEE NOTE #3	MIX AT 1:2 RATIO (SEE NOTE #4)
		LINDERA BENZOIN (NORTHERN SPICEBUSH)	FACW-	SEE NOTE #3	MIX AT 1:2 RATIO (SEE NOTE #4)
		VIBURNUM DENTATUM (SOUTHERN ARROWWOOD)	FAC	SEE NOTE #3	
		VIBURNUM PRUNIFOLIUM (BLACK-HAW)	FACU	SEE NOTE #3	
<b>RIPARIAN FOREST QUANTITY SUBTOTALS</b>					<b>700</b>
STREAM BANK	5	ILEX VERTICILLATA (COMMON WINTERBERRY)	FACW+	SEE NOTE #3 (AVERAGES 3" O.C. FOR ONE-GALLON)	APPROX 4865 ONE-GALLON
		LINDERA BENZOIN (NORTHERN SPICEBUSH)	FACW-	SEE NOTE #3	9750 TUBELING
		SAMBUCUS CANADENSIS (ELDERBERRY)	FACW+	SEE NOTE #3	
		VIBURNUM DENTATUM (SOUTHERN ARROWWOOD)	FAC	SEE NOTE #3	
		VIBURNUM PRUNIFOLIUM (BLACK-HAW)	FACU	SEE NOTE #3	
<b>STREAM BANK QUANTITY SUBTOTALS</b>					<b>---</b>
STREAM EDGE	6	ALNUS SERRULATA (BROOKSIDE ALDER)	OBL	1' O.C. (SEE NOTES #5, #6)	N/A
		CORNUS AMOMUM (SILKY DOGWOOD)	FACW	SEE NOTE #3	
		SALIX NIGRA (BLACK WILLOW)	FACW+	SEE NOTE #3	
		VIBURNUM DENTATUM (SOUTHERN ARROWWOOD)	FAC	SEE NOTE #3	
<b>STREAM EDGE QUANTITY SUBTOTALS</b>					<b>---</b>

**SEEDING SCHEDULE**

SEED PLANTING ZONE	SPECIES GROUP <sup>1,2</sup>	SPECIES <sup>2</sup>	INDICATOR STATUS	SEEDING RATE (LBS/AC) <sup>3</sup>
RIPARIAN BUFFER SEED MIX	7	LOLIUM MULTIFLORUM (ANNUAL RYEGRASS)	NI	45.00
		SETARIA ITALICA (FOX TAIL MILLET) (OR ECHNOCHOLOA CRUSGALLIVAR FRUMENTACEA)	UPL	45.00
	8	CAREX SCOPARIA (BLUNT BROOM SEDGE)	FACW-	0.20
		CAREX SQUARROSA (SQUARROSE SEDGE)	NI	0.20
		CAREX VULPINOIDEA (FOX SEDGE)	OBL	0.20
		CYPERUS ESCULENTUS (CHUFA)	FACW-	0.20
		JUNCUS EFFUSUS (SOFT RUSH)	FACW+	0.20
	9	JUNCUS TENUIS (PATH RUSH)	FAC	0.20
		ELYMUS RIPARIUS (RIVERBANK WILD RYE)	FACW-	10.00
		ELYMUS VIRGINICUS (VIRGINIA WILD RYE)	FACW-	10.00
		PANICUM CLANDESTINUM (DEER TONGUE GRASS)	FAC+	10.00
		PANICUM DICHOTOMIFLORUM (SMOOTH PANIC GRASS)	FACW-	10.00
	10	ANEMONE VIRGINIANA (THIMBLEWEED)	NI	0.10
		ASTER NOVAE-ANGLIAE (NEW ENGLAND ASTER)	FACW-	0.10
		ASTER PILOSIUS (HEATH ASTER)	UPL	0.10
ASTER PRENANTHOIDES (ZIG ZAG ASTER)		FAC	0.10	
LILIUM SUPERBUM (TURKSCAP LILY)		FACW+	0.10	
11	SOLIDAGO JUNCEA (EARLY GOLDENROD)	UPL	0.10	
	EUPATORIUM PERFOOLIATUM (BONESET)	FACW-	0.10	
	EUTHAMIA GRAMMINIFOLIA (GRASS LEAVED GOLDENROD)	FAC	0.10	
	SOLIDAGO CANADENSIS (CANADIAN GOLDENROD)	FACU	0.10	
	SOLIDAGO SPECIOSA (SHOWY GOLDENROD)	UPL	0.10	
12	VERNONIA NOVEBORACENSIS (NEW YORK IRONWEED)	FACW+	0.10	
	ZIZIA AUREA (GOLDEN ALEXANDERS)	FAC	0.10	
	ASCLEPAS SYRIACA (COMMON MILKWEED)	UPL	0.20	
	BIDENS FRONDOSA (BEGGAR TICKS)	FACW-	0.20	
	HELENIUM AUTUMNALE (COMMON SNEEZEWEED)	FACW+	0.20	
13	HELIANTHUS ANGUSTRIFOLIUS (NARROW-LEAF SUNFLOWER)	FACW-	0.20	
	ONOCLEA SENSIBILIS (SENSITIVE FERN)	FACW-	0.20	
	PENSTEMON DIGITALIS (PENSTEMON)	FAC	0.20	
	VERBENA HASTATA (BLUE VERVAIN)	FACW+	0.20	
	VERBESINA ALTERNIFOLIA (WINGSTEM)	FAC	0.20	
14	COREOPSIS LANCEOLATA (LANCE LEAVED COREOPSIS)	FACU	0.20	
	HELIOPSIS HELIANTHOIDES (COKY SUNFLOWER)	UPL	0.20	
	POLYGONUM PENNSYLVANICUM (PA SMARTWEED)	FACW-	0.20	
	RUDBECKIA HIRTA (BLACK EYED SUSAN)	FACU-	0.20	
	SENNA HEBECARPA (WILD SENNA)	FAC	0.20	
15	AMELANCHIER CANADENSIS (CANADIAN SERVICEBERRY)	FAC	0.20	
	ARONIA MELANOCARPA (BLACK CHOKEBERRY)	UPL	0.20	
	HAMAMELIS VIRGINIANA (WITCH HAZEL)	FAC-	0.20	
	ILEX VERTICILLATA (WINTERBERRY)	FACW+	0.20	
	LINDERA BENZOIN (NORTHERN SPICEBUSH)	FACW-	0.20	
<b>SEEDING TOTALS</b>				<b>137.90</b>

**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. AT A MINIMUM, CONTRACTOR TO PROVIDE AT LEAST:
  - A) 3 OF THE 5 SPECIES IN GROUP 1,
  - B) 4 OF THE 6 SPECIES IN GROUP 2,
  - C) ALL OF GROUP 3,
  - D) 5 OF THE 7 SPECIES IN GROUP 4,
  - E) 3 OF THE 5 SPECIES IN GROUP 5,
  - F) 3 OF THE 4 SPECIES IN GROUP 6 (WITH SALIX NIGRA A REQUIRED SPECIES),
  - G) ALL OF GROUP 7,
  - H) 4 OF THE 6 SPECIES IN GROUP 8,
  - I) 3 OF THE 4 SPECIES IN GROUP 9,
  - J) 5 OF 6 SPECIES IN GROUP 10,
  - K) 5 OF 7 IN GROUP 11,
  - L) 6 OF 8 IN GROUP 12,
  - M) 4 OF 5 IN GROUP 13,
  - N) 5 OF 8 IN GROUP 14, AND
  - O) 5 OF 6 IN GROUP 15.
- SUBSTITUTIONS FOR SELECTED SPECIES BASED UPON AVAILABILITY SHALL BE REQUESTED IN WRITING TO ENGINEER DOCUMENTING THE LACK OF AVAILABILITY IF THE FLEXIBILITY INHERENT IN THE ABOVE SCHEDULE IS STILL NOT SUFFICIENT. ENGINEER IS UNDER NO OBLIGATION TO APPROVE SUBSTITUTIONS.
- THE PLANTED 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. EXCEPTION - GROUP 6 (STREAM EDGE) SHALL BE PLANTED IN ACCORDANCE WITH NOTE #5.
- GROUP 6 (STREAM EDGE) ZONE SHALL BE PLANTED WITH TUBELINGS (ONLY BETWEEN SEPTEMBER 30 AND MARCH 31), OR LIVESTAKES (SALIX NIGRA ONLY, AND ONLY BETWEEN FEBRUARY 1 AND MARCH 31). NO ONE GALLONS ARE 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 NOT BE PLANTED SUCH THAT EACH INDIVIDUAL SPECIES IN THESE ZONES IS PLANTED AT THESE RATES, RESULTING IN TIGHTER SPACING.
- ALL SEEDING RATES ARE EXPRESSED IN POUNDS OF PURE LIVE SEED (PLS).



**NORTHERN VIRGINIA STREAM RESTORATION BANK**  
COLVIN RUN - TALL OAKS

Fairfax County, Virginia

Preliminary Plan

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**REVISIONS**

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

DATE: MARCH 21, 2011    SCALE: 1" = 20'    C.I. = 0.5'

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Design	Draft	Approved
KLP	KLP	FRG

Sheet #  
**2 of 2**

Computer File Name: L:\WORKING\COLVIN RUN\PRELIMINARY PLAN 07.dwg

**DRAFT**  
March 21, 2011