



**Upton Hill Regional Park
Reforestation Plan**
Arlington County, Virginia
Reforestation Plan

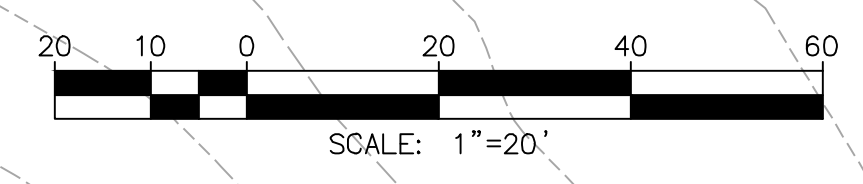


No.	Date	Description	App. By	Rev. By

Horizontal Datum:	N/A	
Vertical Datum:	N/A	
Boundary and Topo Source:	N/A	
Design	Draft	Approved
DMC	DMC	FRG
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PLANTING LEGEND

- PROPOSED OVERSTORY PLANTING
- PROPOSED SUBSTORY/UNDERSTORY PLANTING
- PROPOSED SHRUB PLANTING
- PROPOSED OVERSEEDING AREA
TOTAL: 26,080 SF (0.60 ACRE)
(SEE SEEDING SCHEDULE FOR SEED MIX COMPOSITION)

PIN: 0514 01 0333B
SAINT ALBANS HOUSING CORP.
DB. 17445 PG. 0778

RPQ: 12-042-106
SAINT ALBANS HOUSING
HARTLAND BANK
DB. 3860 PG. 1232

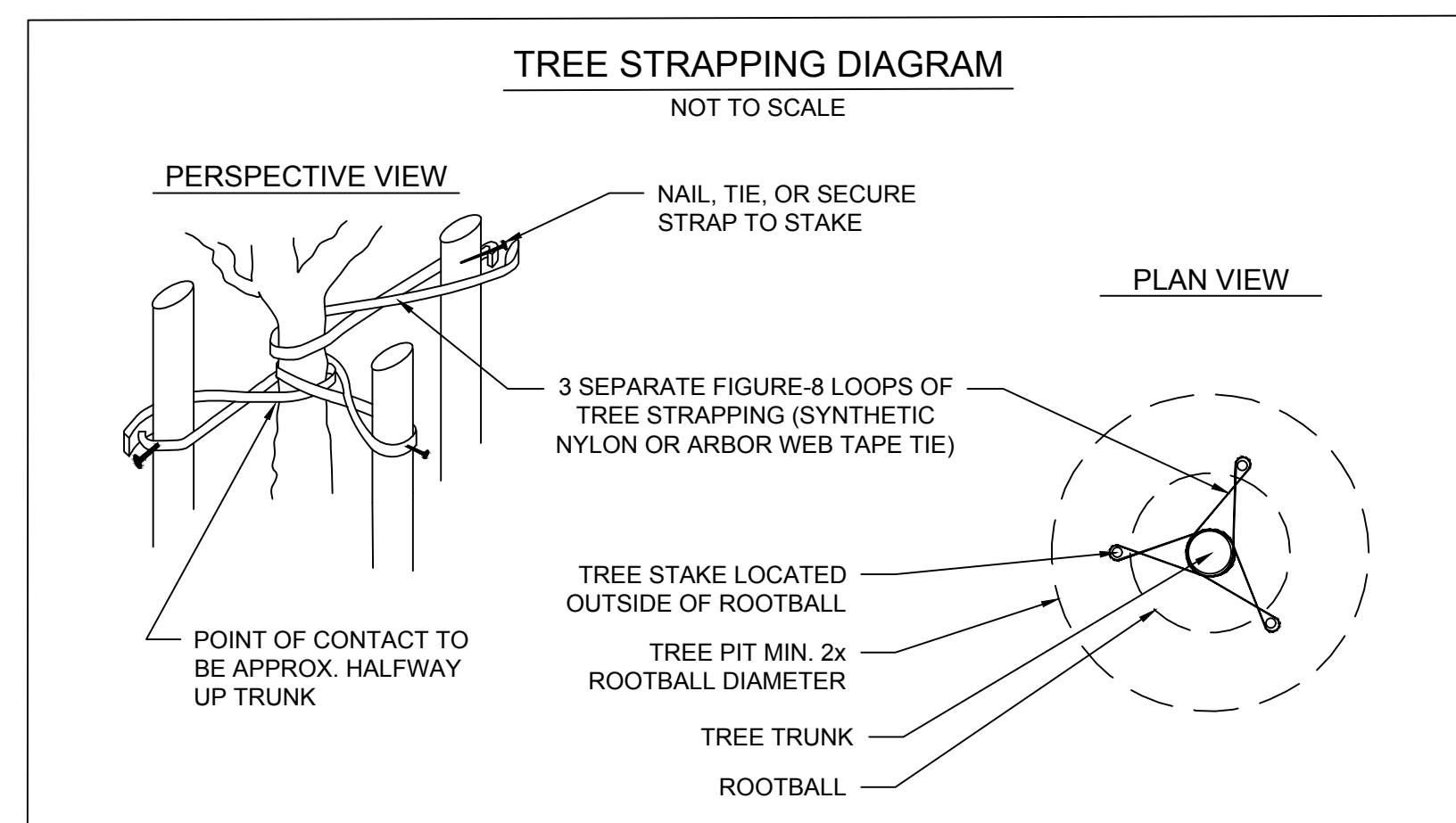
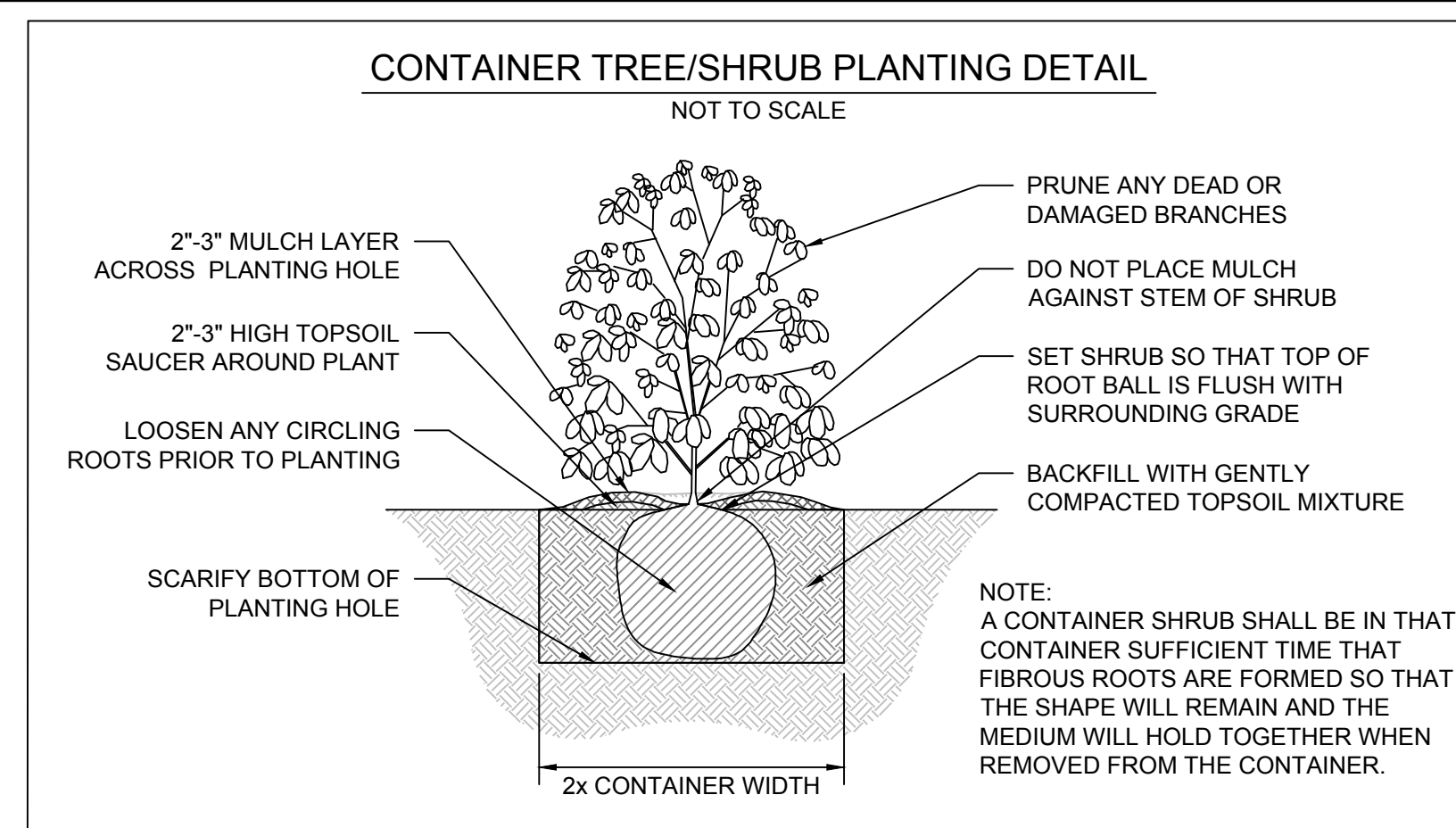
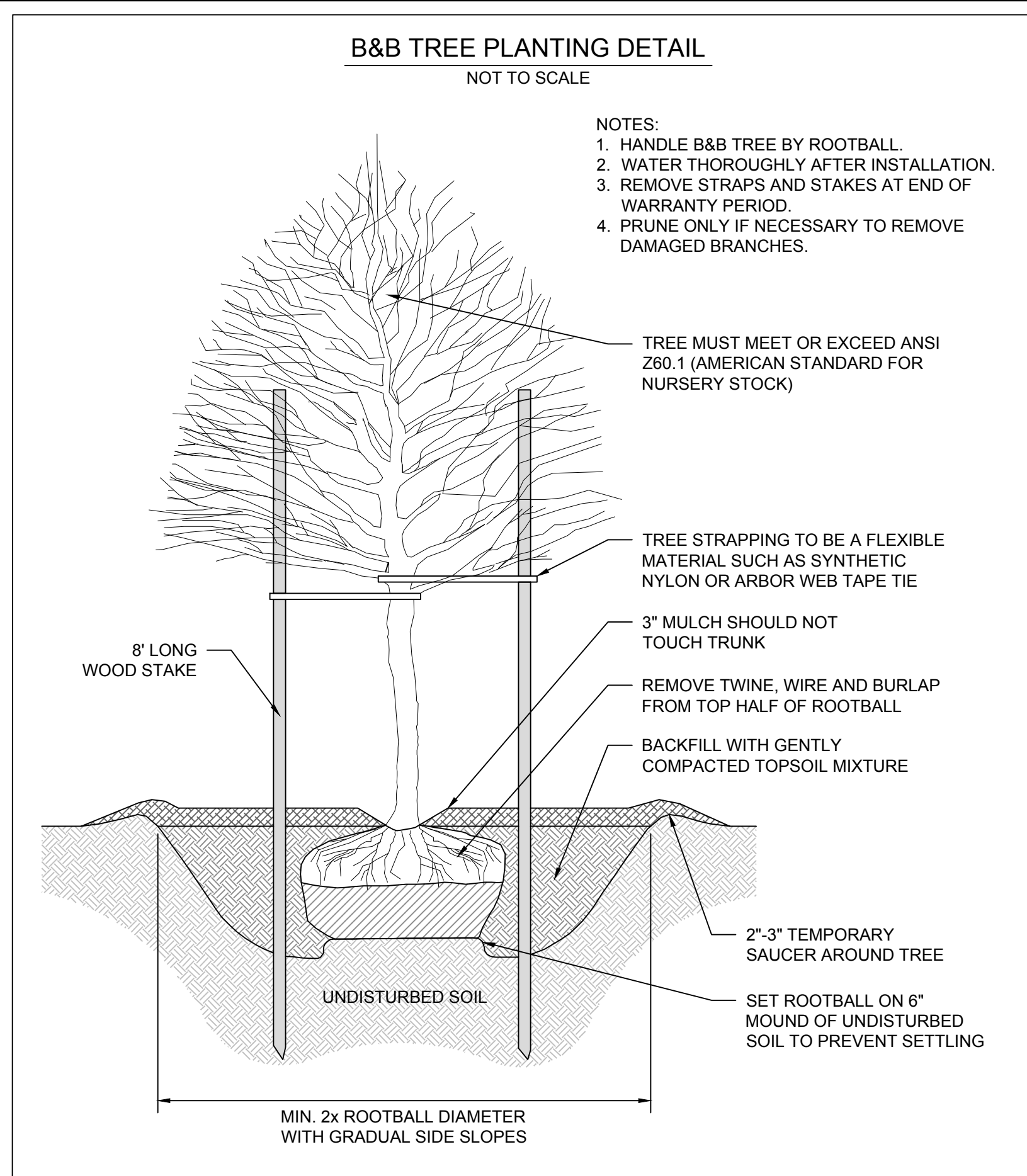
DO NOT PLANT WITHIN
SEWER LINE OFFSET

REFORESTATION AREA VEGETATION SCHEDULE					
PLANTING SCHEDULE					
SPECIES GROUP	SYMBOL	SPECIES	QUANTITY	PLANT SIZE	PLANT SPACING
OVERSTORY LAYER	CATO	CARYA TOMENTOSA (MOCKERNUT HICKORY)	5	2" CALIPER	PER PLAN
	LITU	LIRIODENDRON TULIPIFERA (TULIP POPLAR)	5	2" CALIPER	PER PLAN
	NYSY	NYSSA SYLVATICA (BLACK GUM)	5	2" CALIPER	PER PLAN
	PRSE	PRUNUS SEROTINA (BLACK CHERRY)	5	2" CALIPER	PER PLAN
	QUAL	QUERCUS ALBA (WHITE OAK)	5	2" CALIPER	PER PLAN
	QUCO	QUERCUS COCCINEA (SCARLET OAK)	5	2" CALIPER	PER PLAN
	QUMO	QUERCUS MONTANA (CHESTNUT OAK)	5	2" CALIPER	PER PLAN
	QUVE	QUERCUS VELUTINA (BLACK OAK)	5	2" CALIPER	PER PLAN
OVERSTORY SUBTOTAL			40		
SUBCANOPY/ UNDERSTORY LAYER	ACRU	ACER RUBRUM (RED MAPLE)	8	3 GALLON	PER PLAN
	CECA	CERCIS CANADENSIS (EASTERN REDBUD)	8	3 GALLON	PER PLAN
	ILOP	ILEX OPACA (AMERICAN HOLLY)	8	3 GALLON	PER PLAN
	VIPR	VIBURNUM PRUNIFOLIUM (BLACK-HAW)	8	3 GALLON	PER PLAN
SUBCANOPY/UNDERSTORY SUBTOTAL			32		
SHRUB LAYER	CAPU	CASTANEA PUMILA (AMERICAN CHINQUAPIN)	15	1 GALLON	PER PLAN
	HAVI	HAMAMELIS VIRGINIANA (WITCH HAZEL)	15	1 GALLON	PER PLAN
	LIBE	LINDERA BENZOIN (NORTHERN SPICEBUSH)	15	1 GALLON	PER PLAN
	VIAC	VIBURNUM ACERIFOLIUM (MAPLE-LEAF VIBURNUM)	15	1 GALLON	PER PLAN
SHRUB SUBTOTAL			60		
REFORESTATION AREA QUANTITY TOTAL			132		

REFORESTATION AREA SEEDING SCHEDULE						
SEEDING SCHEDULE						
SEEDING ZONE	SPECIES GROUP	SPECIES	SEEDING RATE (LBS/AC)	SEEDING AREA (AC)	QUANTITY (LBS)	
REFORESTATION AREA SEED MIX	1	LOLIUM MULTIFLORUM (ANNUAL RYEGRASS)	10.00	0.60	6.00	
		SETARIA ITALICA (ITALIAN BRISTLE GRASS)	10.00	0.60	6.00	
	2	COREOPSIS LANCEOLATA (LANCE-LEAVED COREOPSIS)	8.00	0.60	4.80	
		DICHANTHELIUM CLANDESTINUM (DEER TONGUE GRASS)	8.00	0.60	4.80	
		PANICUM VIRGATUM (SMITCHGRASS)	8.00	0.60	4.80	
		SORGHASTRUM NUTANS (INDIANGRASS)	8.00	0.60	4.80	
	3	TRIDENS FLAVUS (PURPLETOP)	8.00	0.60	4.80	
		ASCLEPIAS TUBEROSA (BUTTERFLY MILKWEED)	0.10	0.60	0.06	
		APOCYNUM CANNABINUM (INDIANHEMP)	0.10	0.60	0.06	
		EUPATORIUM PERFOOLIATUM (BONESET)	0.10	0.60	0.06	
		EUTHAMIA CAROLINIANA (SLENDER GOLDENTOP)	0.10	0.60	0.06	
	4	ANDROPOGON VIRGINICUS (BROOMSEDGE BLUESTEM)	0.10	0.60	0.06	
		ASCLEPIAS SYRIACA (COMMON MILKWEED)	0.20	0.60	0.12	
		JUNCUS TENUIIS (PATH RUSH)	0.20	0.60	0.12	
		PENSTEMON DIGITALIS (PENSTEMON)	0.20	0.60	0.12	
	5	VERBESINA ALTERNIFOLIA (WINGSTEM)	0.20	0.60	0.12	
		HELIOPSIS HELIANTHOIDES (OXEYE SUNFLOWER)	0.20	0.60	0.12	
		RUDBECKIA HIRTA (BLACK EYED SUSAN)	0.20	0.60	0.12	
	6	SENNA HEBECARPA (WILD SENNA)	0.20	0.60	0.12	
		AMELANCHIER CANADENSIS (CANADIAN SERVICEBERRY)	0.50	0.60	0.30	
		HAMAMELIS VIRGINIANA (WITCH HAZEL)	0.50	0.60	0.30	
	7	VIBURNUM DENTATUM (SOUTHERN ARROW WOOD)	0.50	0.60	0.30	
		VIBURNUM PRUNIFOLIUM (BLACK-HAW)	0.50	0.60	0.30	
		ACER RUBRUM (RED MAPLE)	0.50	0.60	0.30	
		CARPINUS CAROLINIANA (MUSCLEWOOD)	0.50	0.60	0.30	
		CERCIS CANADENSIS (EASTERN REDBUD)	0.50	0.60	0.30	
	SEEDING TOTALS			66.90	0.60	40.14

SEEDING SCHEDULE 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:
 - all of Group 1,
 - 4 of the 5 species in Group 2,
 - 4 of the 5 species in Group 3,
 - 3 of the 4 species in Group 4,
 - 2 of the 3 species in Group 5,
 - 3 of the 4 species in Group 6,
 - 5 of the 6 species in Group 6,
- The planted trees and shrubs shall be randomly spaced and species mixed throughout the planting areas.
- All seeding rates are expressed in pounds of pure live seed (PLS).



PLANTING SPECIFICATIONS

- ANY NURSERY SUPPLYING THE STOCK SHALL PROVIDE A CURRENT NURSERY INSPECTION CERTIFICATE FROM THE STATE DEPARTMENT OF AGRICULTURE, OR PROVIDE AT LEAST THIRTY DAYS ADVANCE NOTICE FOR OWNER TO INSPECT THE PLANT SOURCE AREAS AT OWNER'S DISCRETION. ANY SUCH INSPECTION IS NOT DEEMED APPROVAL OF THE PLANT MATERIALS.
- ALL PLANTS SHALL BE SET STRAIGHT, OR PLUMB.
- PLANTING HOLES FOR CONTAINER GROWN PLANTS SHALL BE ONE FOOT (1') DEEP PLUS THE CONTAINER DEPTH IN WHICH THE PLANT HAS BEEN GROWN AND TWO FEET (2') WIDER THAN CONTAINER.
- BACKFILL THE PLANTING HOLES WITH THE IN-SITU SOIL MATERIALS REMOVED FOR PLANTING AFTER REMOVING ALL STONES, ROOTS, AND OTHER DEBRIS GREATER THAN 1-1/2" IN DIAMETER.
- FOLLOWING THE BACKFILLING, WATER TO THE POINT OF SOIL SATURATION AND TAMP TO COMPACT THE BACKFILL MIXTURE. ADD EXISTING SOIL TO BRING THE FINAL GRADE IN THE PLANTING HOLE TO THE SURROUNDING SOIL SURFACE. RAKE THE UNUSED EXISTING SOIL OUTSIDE THE PLANTING HOLES, TAKING CARE NOT TO MOUND THE SOIL OR TO SIGNIFICANTLY ALTER THE EXISTING GRADES AND THEN PLACE MULCH (MIN. 2" THICK) ATOP ENTIRE PLANTING HOLE. THE PLANTING HOLE AREAS MUST NOT BE DEPRESSED BELOW THE SURROUNDING SOIL SURFACE ELEVATIONS. SAID AREAS SHALL BE SLIGHTLY RAISED (2-3"), RELATIVE TO THE SOIL SURFACE.
- THE SHRUBS THAT ARE SPECIFIED AS CONTAINER GROWN SPECIMENS SHALL BE BETWEEN 15" AND 18" IN HEIGHT. THEY SHALL BE HEALTHY, VIGOROUS, WELL ROOTED AND ESTABLISHED IN THE PLANTING CONTAINER IN WHICH THEY ARE GROWING. A CONTAINER SHRUB SHALL BE IN THAT CONTAINER A SUFFICIENT TIME THAT FIBROUS ROOTS ARE FORMED SO THE SHAPE WILL REMAIN AND THE MEDIUM WILL HOLD TOGETHER WHEN REMOVED FROM THE CONTAINER (REFER TO AMERICAN STANDARD FOR NURSERY STOCK).
- DO NOT REMOVE PLANTS FROM CONTAINERS UNTIL IMMEDIATELY BEFORE PLANTING. EXAMINE THE ROOTS TO SEE IF THEY ARE POT BOUND. CAREFULLY SEPARATE ANY POT BOUND OR CRAMPED ROOTS AND SPREAD THEM OUT WHEN PLACING THE PLANT SO THAT THE ROOTS CAN GROW WITHOUT FURTHER CONSTRICTION OF THE ROOT BALL.
- FERTILIZE EACH PLANT WITH A 20 GRAM TABLET OF FERTILIZER. GENERALLY, FOR EACH 12 TO 18 INCHES OF PLANT HEIGHT OR FOR EACH 1/2" OF TREE DIAMETER AT THE BASE, USE 20 GRAMS FOR SLOW GROWING PLANTS OR 40 GRAMS FOR FAST GROWING PLANTS OR POOR SOIL SITUATIONS. SAID FERTILIZER TABLETS SHALL BE AGRIFORM 20-10-5 OR APPROVED EQUIVALENT, APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR REPLACING NON-SURVIVING TREES AND SHRUBS DURING THE CARE AND REPLACEMENT PERIOD (12 MONTHS, UNLESS OTHERWISE SPECIFIED IN CONTRACT DOCUMENTS) OR UNTIL FINAL ACCEPTANCE, WHICHEVER IS THE SHORTEST, AS REQUIRED BY THE TERMS OF THE SURVIVAL WARRANTY SPECIFIED HEREIN AND/OR IN CONTRACT DOCUMENTS. THE SPECIFICATIONS FOR THE REPLACED PLANTS SHALL BE THOSE PROVIDED IN THE PLANT LIST.
- REFER TO APPLICABLE DETAILS WITHIN THIS PLAN SET FOR ADDITIONAL GUIDANCE ON PLANTING REQUIREMENTS.

PLANTING SURVIVAL WARRANTY

- LANDSCAPE CONTRACTOR SHALL GUARANTEE A MINIMUM SURVIVAL RATE OF EACH VEGETATION SPECIES AFTER 12 MONTHS OF 85% FOR B&B AND CONTAINER GROWN STOCK.
- IF SURVIVAL RATES ARE LESS THAN THE ABOVE WARRANTY RATES, THEN LANDSCAPE CONTRACTOR SHALL REPLACE THE QUANTITY OF DEAD PLANTS WITHIN THE NEXT PLANTING WINDOW FOLLOWING THE END OF THE APPLICABLE WARRANTY PERIOD.

SEEDING SPECIFICATIONS

- 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 OWNER PRIOR TO PLANTING.
- 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 OWNER VERBALLY AND IN WRITING AND POSTPONE COMMENCING WORK UNTIL THE UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
- CARE SHOULD BE EXERCISED TO INSURE UNIFORM SEED COVERAGE IS OBTAINED. SEED SHALL BE APPLIED AT THE RATE SPECIFIED ON THE PLANTING SCHEDULE.
- THE SPECIFIED SEED SHALL BE OVERSEEDDED IN THE DESIGNATED AREA AS SHOWN ON THE PLANTING PLAN.

PRODUCT HANDLING, STORAGE, AND DELIVERY

- HANDLE PLANTS AT ALL TIMES SO THAT ROOTS OR BALLS ARE ADEQUATELY PROTECTED FROM BREAKAGE OF BALLS, FROM SUN AND DRYING WINDS. PLANTS WITH DRIED OUT TOPS OR ROOTS SHALL BE REJECTED.
- ALL PLANT MATERIALS SHALL BE STORED AND DELIVERED IN SUCH A FASHION AND FOR TIME INTERVALS CONSISTENT WITH SOUND SILVICULTURAL PRACTICES.
- PLANT MATERIAL WILL BE TRANSPORTED FROM THE NURSERY TO THE PLANTING AREAS BY SUCH MEANS AS TO AVOID WIND DAMAGE, OVER-CROWDING, OR OTHER MECHANISMS BY WHICH PHYSICAL DAMAGE MAY RESULT TO THE PLANTS.
- PLANT MATERIAL MAY BE RANDOMLY INSPECTED BY THE OWNER UPON ARRIVAL AT EACH PLANTING AREA AND DURING PLANTING ACTIVITIES. MATERIAL FOUND TO BE UNACCEPTABLE WILL BE REJECTED AND THE CONTRACTOR WILL BE REQUIRED TO SUPPLY REPLACEMENT MATERIAL WITHIN A REASONABLE TIME FRAME (I.E. 1-WEEK). UNACCEPTABLE MATERIAL IS TO BE DEFINED AS THE FOLLOWING:
 - PLANTS WITH BENT TRUNKS OR MULTIPLE LEADERS, UNLESS CHARACTERISTIC FOR THE SPECIES;
 - PLANTS WITH DISEASED TRUNKS, STEMS, OR LEAVES;
 - PLANTS WITH PEST-INFESTED TRUNKS, STEMS, OR LEAVES;
 - PLANTS OF INSUFFICIENT SIZE (LESS THAN A SPECIFIED HEIGHT OR CALIPER);
 - PLANTS OF THE WRONG SPECIES/SUB-SPECIES;
 - PLANTS HAVING ROOT GIRDLING IN THE CONTAINER;
UNLESS OTHERWISE APPROVED BY THE OWNER. JUSTIFICATION FOR USE OF TENTATIVELY REJECTED MATERIAL MAY BE PRESENTED TO THE OWNER.

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Upton Hill Regional Park
Reforestation Plan
Arlington County, Virginia
Planting Schedule & Details
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COMMONWEALTH OF VIRGINIA
DILLON M. CONNER
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LANDSCAPE ARCHITECT

REVISONS		App. By	Rev. By	Date
No.	Description			

DATE: April 2018 SCALE: N/A

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

Design	Draft	Approved
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