



ADDITIONAL CLEARING FOR STORMWATER
MANAGEMENT MAINTENANCE ACCESS +0.19 AC

Afforestation Area 3 (revised 7/25/12)

REFORESTATION AREA NO. 1
AREA OF PROPOSED NATURAL REGENERATION

REFORESTATION AREA NO. 2

ADDITIONAL CLEARING AREAS
+0.56 AC & 2.54 AC

WOODLAND CONSERVATION DATA

GROSS TRACT	249.0 AC.
NET TRACT AREA	249.0 AC.
EXISTING WOODLAND	66.77 AC.
WOODLAND CLEARED	3.29 AC.
WOODLAND REPLACED	3.29 AC.

CONTROL LEGEND

POINT	DESCRIPTION	NORTH	EAST	ELEV.
HW1	TIP OF ISLAND	49305.272	137098.344	217.045
HW2	TOP AT END OF PIPE	482625.474	137060.242	194.912
HW3	CL DRIVE AT CL ROAD	49595.342	1370578.128	220.3
HW4	CL ROAD AT NEW OLD PAV	488570.824	136691348	204.41
HW5	END AND CENTER OF WALK	488925.174	1370801.604	216.765
HW7	NW CORN CORNERS	49595.342	1370578.128	186.418
HW8	END AT CL OF WALK START	488570.824	1374357.668	185.744

LEGEND

BRUSHLINE	MONUMENT
CABLE MARKER	POST
CATCH BASIN	RAILROAD TRACKS
DROP INLET	SWAMP
FENCE	TRAFFIC LIGHT
FIRE HYDRANT	TREE
GUARD RAIL	TREELINE
LIGHT POLE	UNIDENTIFIED OBJECT
MISCELLANEOUS POLE	UTILITY POLE
MONITORING WELL	VALVE
	WATER LINE

ABBREVIATIONS

AASPH	ASPHALT
A/C	AIR CONDITIONER
BR	BRICK
CB	CATCH BASIN
C CONC	CONCRETE
DI	DROP INLET
HOWL	HEAD WALL
MC	METAL COVER
MH	MANHOLE
TRANS	TRANSFORMER
U/C	UNDER CONSTRUCTION
W	WALL
WD	WOOD

LEGEND

EXISTING TREE LINE	
PROPOSED TREE LINE	
NATURAL REGENERATION AREA	
REFORESTATION AREA	
BOUNDARY LINE	
OPTION NO. 1 TREE PRESERVATION AREA	
OPTION NO. 2 TREE PRESERVATION AREA	

7/25/12 TCP2 revisions are as follows:
Removed Afforestation Areas 1 & 2
Add Afforestation Area 3
Revise Afforestation Planting Schedule

Revisions prepared by and certified by
JM Forestry Services, LLC
11552 Timberbrook Drive
Waldorf, MD 20601

This map compiled by photogrammetric methods
from aerial photography dated 11-10-93.
Vertical datum based on NGS Mean Sea Level
Contour interval 2 ft.
Grid based on MD State Plane
Coordinate System NAD 1983
Air Survey Corp. Project NO. 793106-12

Dashed contours indicate that ground is
partially obscured by vegetation or shadows.
These areas may not meet standard accuracy
and require field testing/completion.

QUALIFIED PROFESSIONAL CERTIFICATION

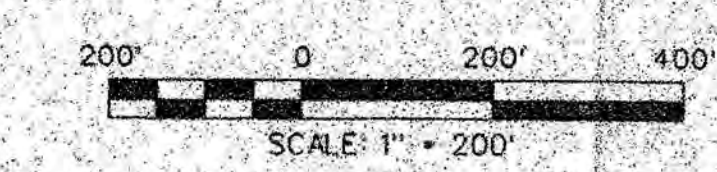
This plan complies with the current requirements of Subtitle 25 and
the Woodland and Wildlife Conservation Technical Manual.

Signed: *John P. Markovich* Date: *7/26/12*

John P. Markovich
JM Forestry Services, LLC
11552 Timberbrook Drive
Waldorf, MD 20601
(301) 645-4977
jmarkovich@comcast.net



TYPE II TREE CONSERVATION PLAN



M-NCPPC Prince George's County Planning Department Environmental Planning Section APPROVAL TREE CONSERVATION PLAN TCP2-009-96	
Approved by	Date
John P. Markovich	1/29/1996
01 Revision	<i>DF</i> <i>7/26/12</i>
02 Revision	
03 Revision	
04 Revision	
05 Revision	

LOIEDERMAN ASSOCIATES, INC.
CIVIL ENGINEERING LAND PLANNING LAND SURVEYING
15200 Shady Grove Road
Rockville, Maryland 20850
(301) 948-2750

4407 Forbes Boulevard
Lanham, Maryland 20706
(301) 794-7995

250 West Patrick Street
Frederick, Maryland 21701
(301) 696-1640
Metro (301) 831-4544

REV.	DATE	DESCRIPTION	DRN BY	APP BY
DATE:	JANUARY, 1994	PROJECT NO.	SCALE:	1" = 200'
DES BY:		PROJECT: SANDY HILL CREATIVE DISPOSAL PROJECT		
DRN BY:	GK	PRINCE GEORGE'S COUNTY, BOWIE, MARYLAND		
CHK BY:		SHEET TITLE:		
REV BY:		TYPE II TREE CONSERVATION PLAN		
APP BY:				

Waste Management Disposal Services of Maryland, Inc.

SHEET 1 OF 3
DRAWING NO.
A200-1

M-NCPPC Prince George's County Planning Department Environmental Planning Section	
APPROVAL TREE CONSERVATION PLAN TCP2-009-96	
Approved by	Date
John P. Markovich	1/29/1996
01 Revision	<i>John P. Markovich</i> 9/17/2012
02 Revision	
03 Revision	
04 Revision	
05 Revision	

ADDITIONAL CLEARING FOR STORMWATER
MANAGEMENT MAINTENANCE ACCESS ±0.19 AC.

REFORESTATION AREA NO. 1
AREA OF PROPOSED NATURAL REGENERATION

REFORESTATION AREA NO. 2

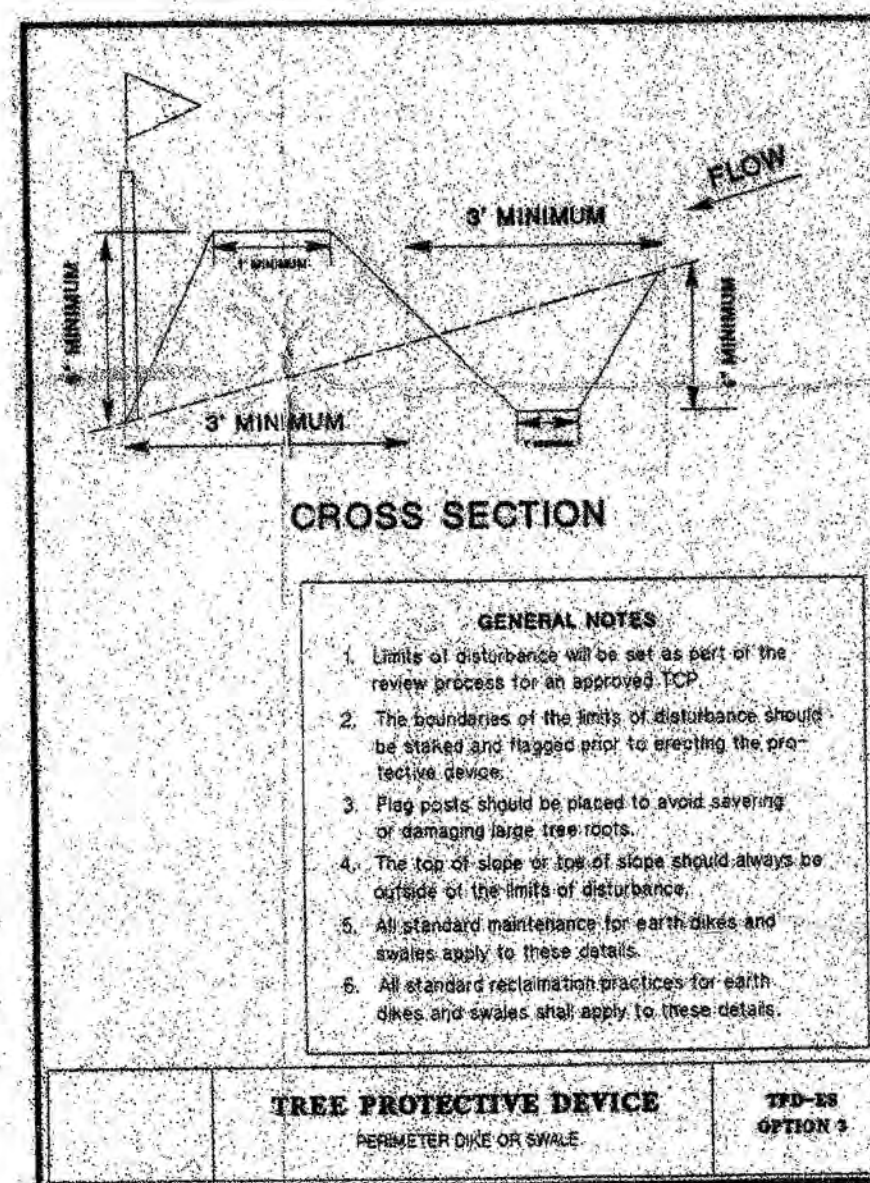
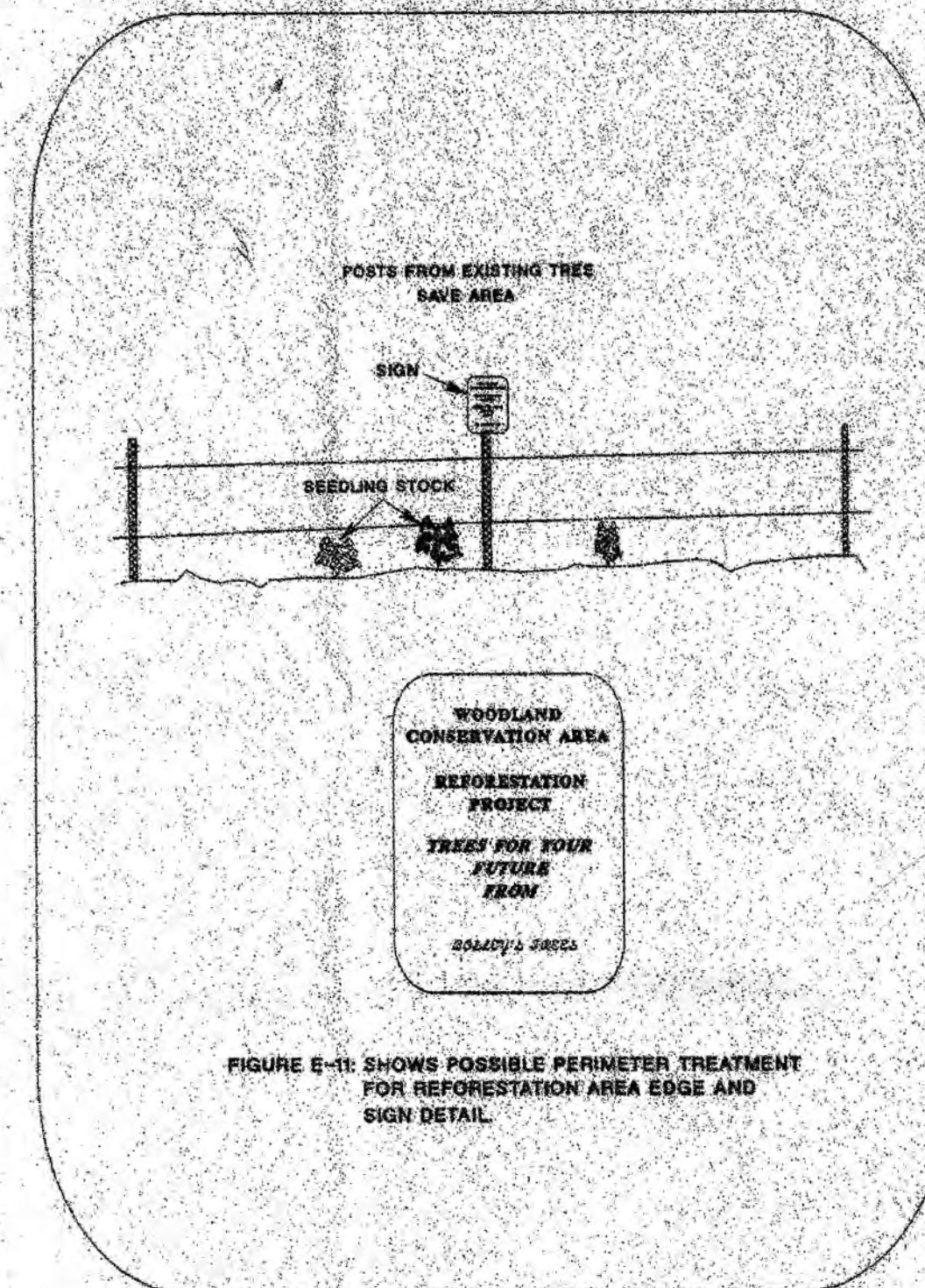
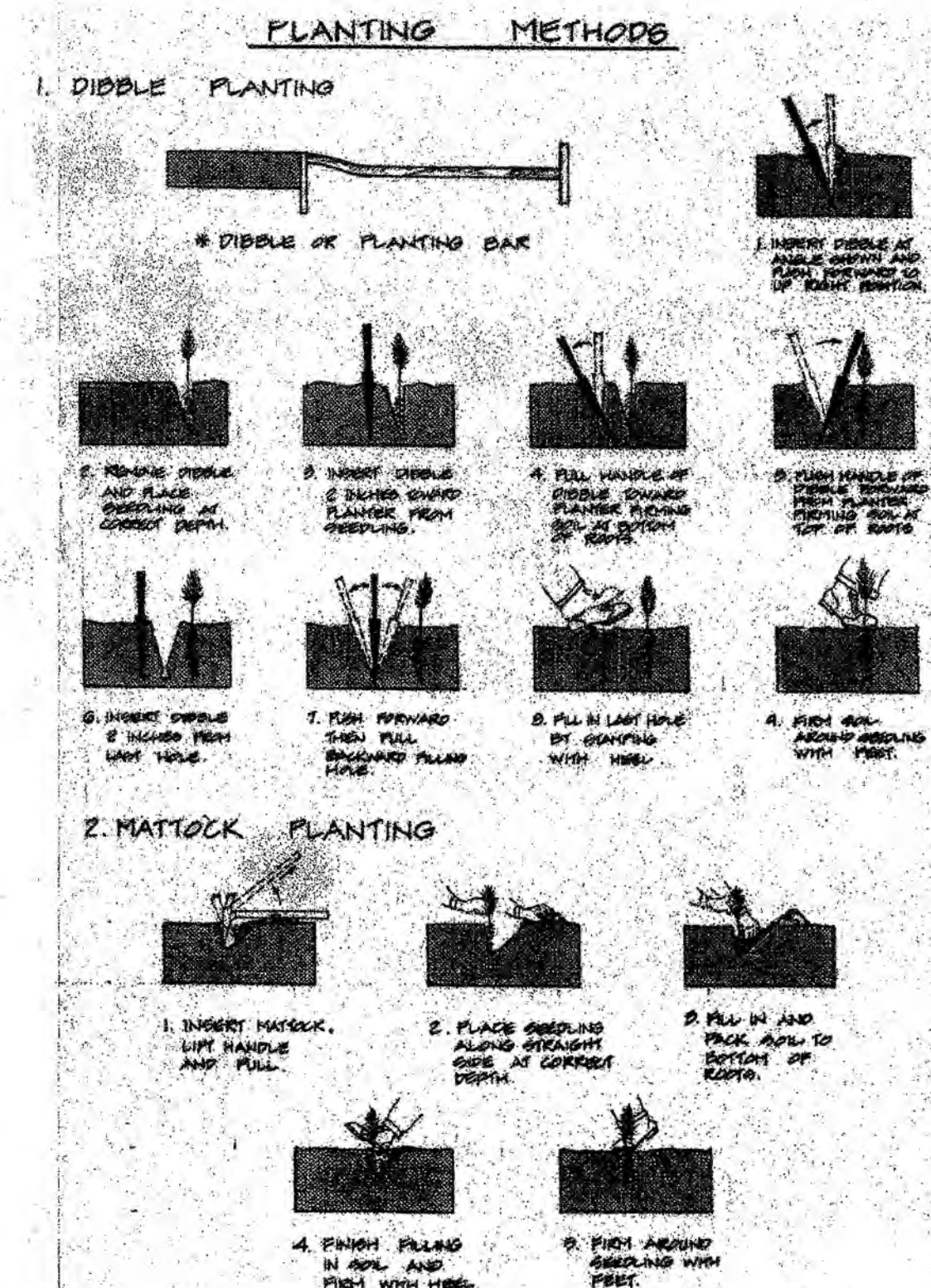
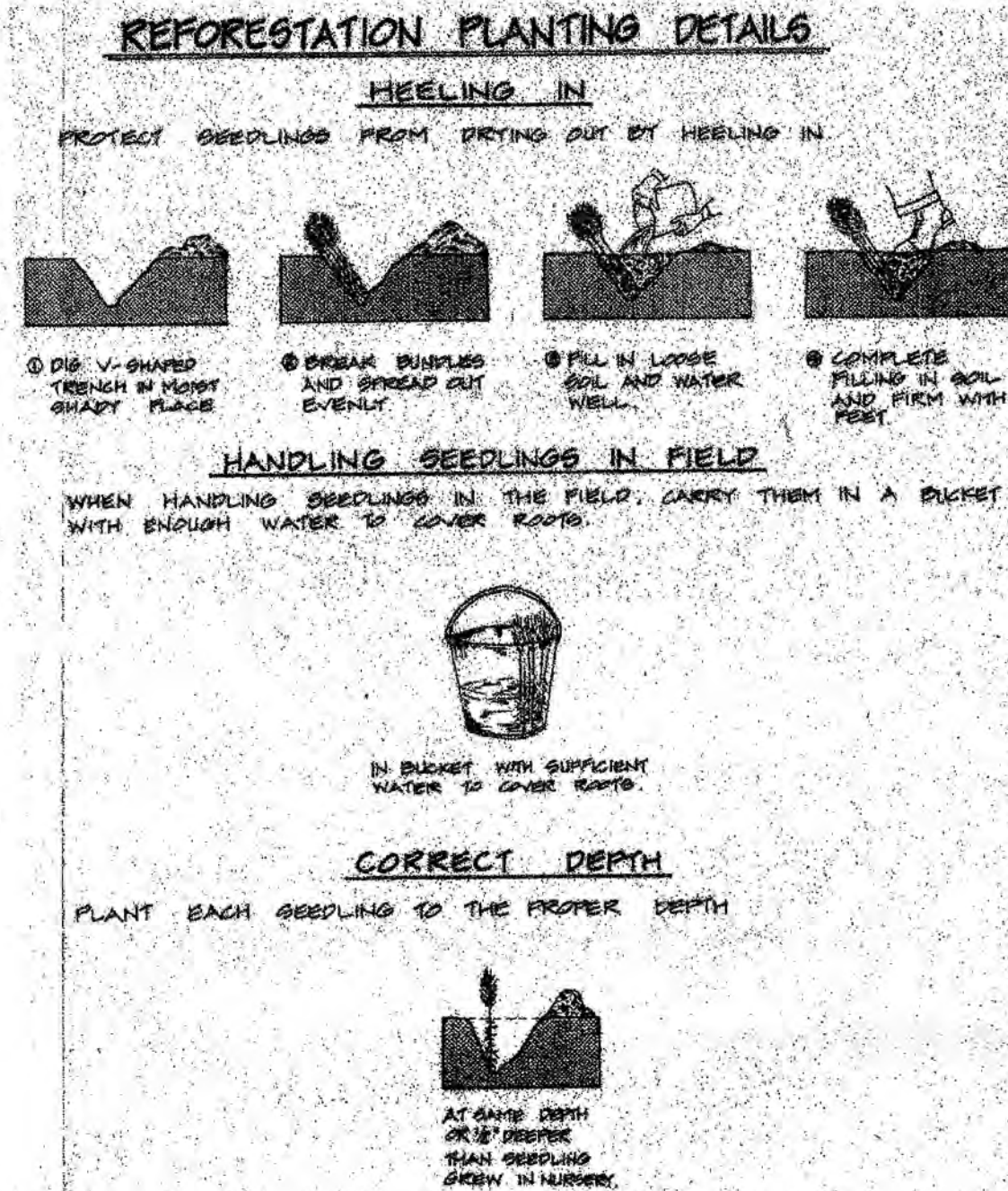
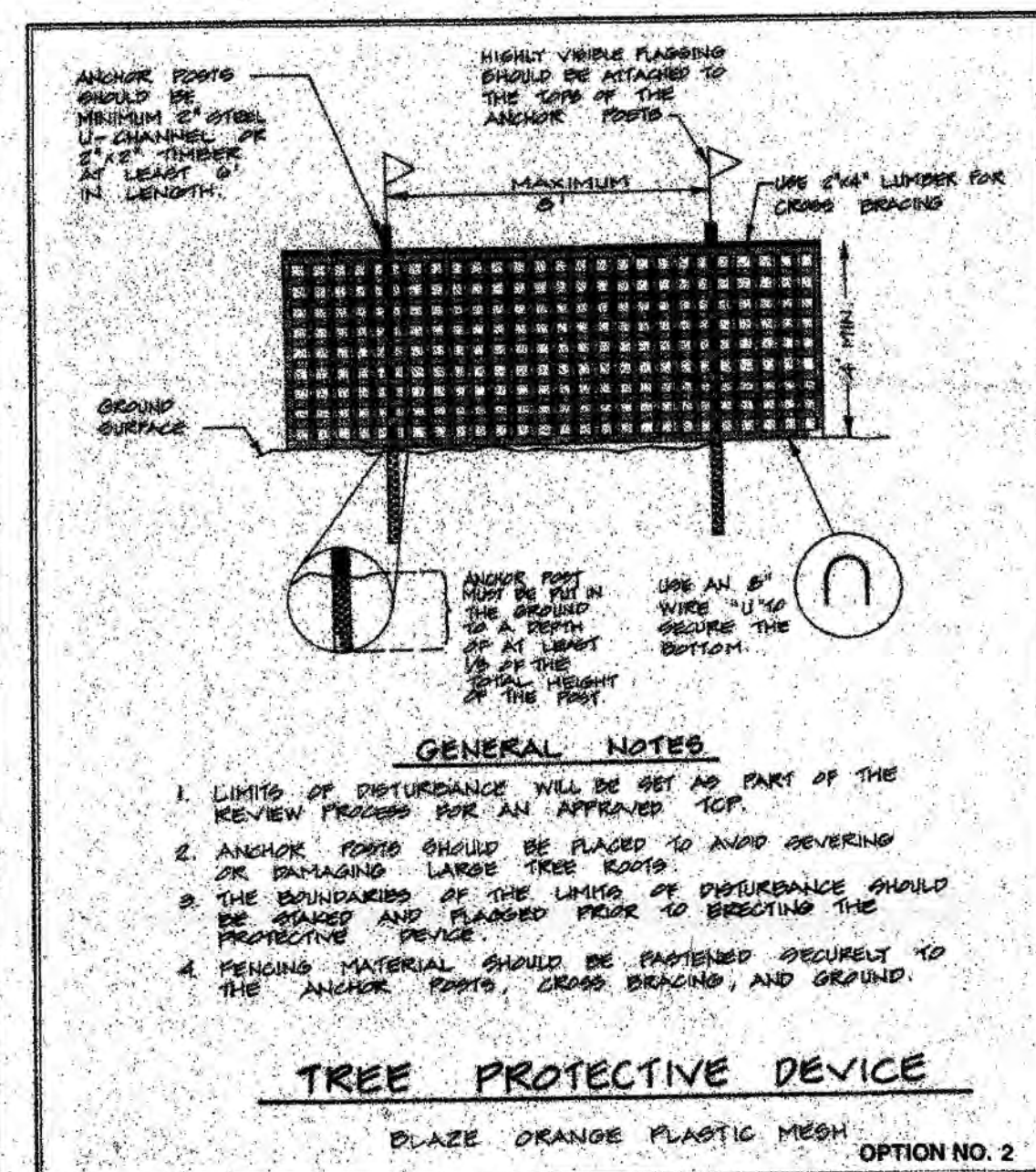
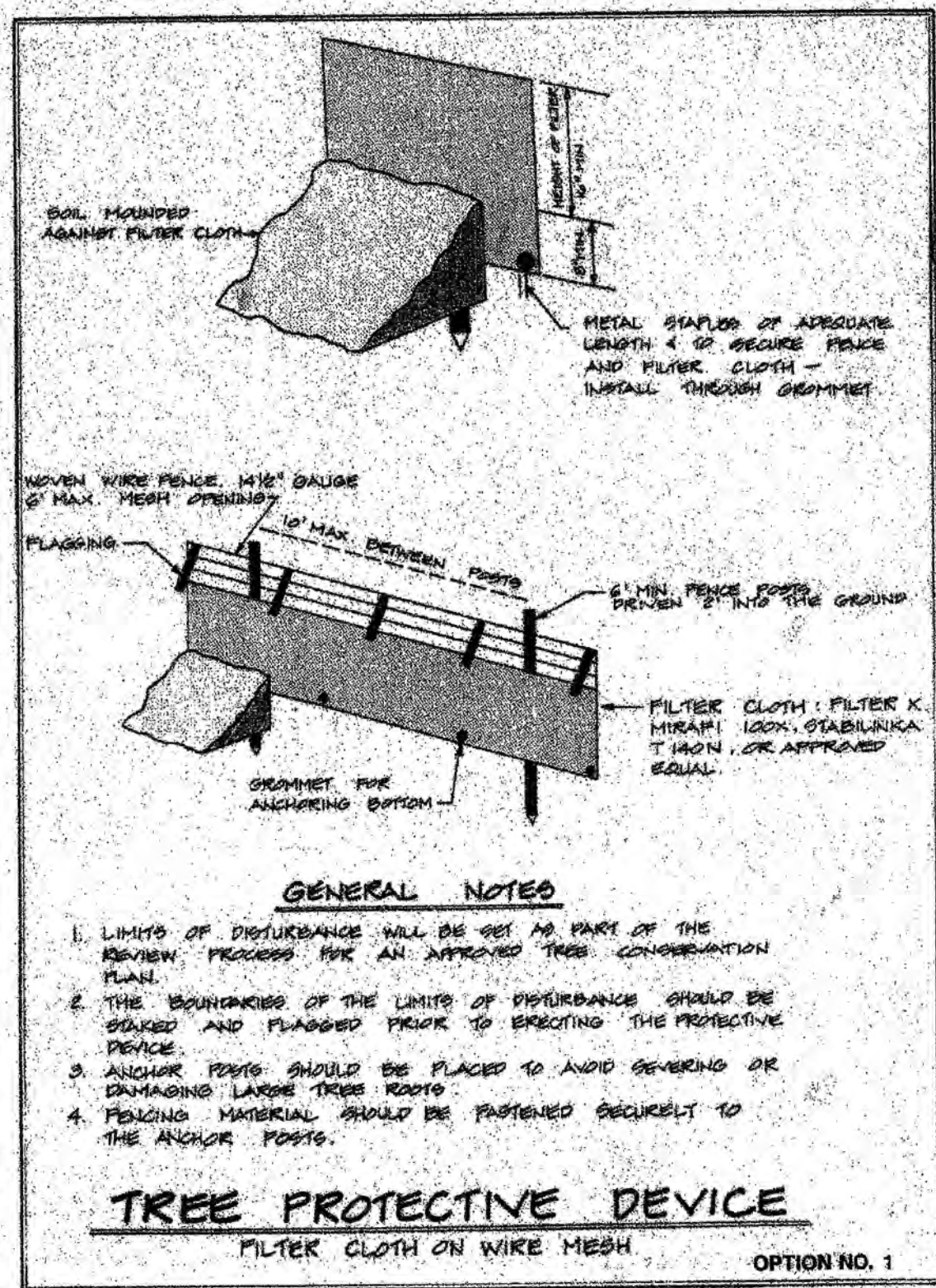
ADDITIONAL CLEARING AREAS
±0.56 AC. & 2.54 AC.

100 50 0 100 200
Feet
1 inch = 100 feet

QUALIFIED PROFESSIONAL CERTIFICATION
This plan complies with the current requirements of Subtitle 25 and the Woodland and Wildlife Conservation Technical Manual.
Signed: *John P. Markovich* Date: *7/26/12*
John P. Markovich
JM Forestry Services, LLC
11552 Timberbrook Drive
Waldorf, MD 20601
(301) 645-4977
jmarkovich@comcast.net



LOIEDERMAN ASSOCIATES, INC. CIVIL ENGINEERING LAND PLANNING LAND SURVEYING ENVIRONMENTAL STUDIES	
15800 Shady Grove Road, Rockville, Maryland 20850 (301) 948-2750 4407 Forbes Boulevard, Lanham, Maryland 20706 (301) 784-7595 228 West Patrick Street, Frederick, Maryland 21701 (301) 696-1240 Metro (301) 691-4544	
REV. DATE DESCRIPTION DATE: MAY, 1994 DES. BY DRN. BY GK CHK. BY REV. BY APP. BY	PROJECT NO. SCALE: 1" = 100' PROJECT: SANDY HILL CREATIVE DISPOSAL PRINCE GEORGE'S COUNTY, MARYLAND SHEET TITLE: TYPE II TREE CONSERVATION PLAN SHEET 2 OF 3 DRAWING NO. A100-2
Waste Management Disposal Services of Maryland, Inc.	



- WOODLAND CONSERVATION AREA**
- Cutting or clearing of woodland, not in conformance with this Plan or without the expressed written consent of the Planning Director or designee, shall be subject to a \$1.50 per square foot assessment fee.
 - The Forest Resources Unit of the Department of Environmental Resources (DER) must be contacted at 301/933-5820 prior to the start of any work on the site to address implementation of Tree Conservation measures shown on this Plan.
 - Upon the sale of the property, the owner/developer or owners representative, shall notify the purchaser of the property of any Woodland Conservation Areas.
 - The location of all Tree Protective Devices (TPDs) shown on this Plan, shall be flagged or staked in the field prior to the construction meeting with the Forest Resources Unit of DER. Upon approval of the flagged or staked TPD locations by the Forest Resources Unit, installation of the TPD's may begin. TPD installation shall be completed prior to installation of initial sediment controls. No cutting or clearing of trees may begin before final approval of TPD installation.
 - Since work on this project will be initiated in several phases, all TPD's required for a given phase shall be installed prior to any disturbance within that phase of work.
 - All field personnel, including equipment operators and supervisors, who might work or direct work in the vicinity of protected trees, are to be instructed in techniques for avoiding damage to these trees.
 - The layout of the construction site shall provide for special areas for fueling, oil changing and equipment maintenance, employee parking and materials storage and stockpiling. These areas shall be located as to prevent the deposit of oil or the washing or leaking of petroleum products or other harmful substances into the tree-save areas.
 - The use of signs visible to the public and to employees indicating the use of tree conservation practices, both on the construction site and at entrances to the site, is strongly encouraged.
 - Prior to any construction activity on-site, the identified trees and tree areas within the conservation area, which are to remain undisturbed shall be enclosed with a tree protective device as shown on the plan. The enclosed areas shall be recorded as off limits for construction activities.
 - The contractor shall diligently undertake to prevent the removal of or damage to any tree which is designated for preservation. Damage or destruction of any such tree shall be the responsibility of the contractor whether caused by the contractor, subcontractor, or contractor's employees or licensees. THE FOLLOWING, WHICH CAUSE DAMAGE AND DESTRUCTION TO TREES, ARE NOT ALLOWED WITHIN A TREE-SAVE AREA:
 - Storage or stockpiling of material and supplies in protected areas.
 - Felling trees into protected areas.
 - Placing backfill in protected areas.
 - Driving construction equipment into or through protected areas.
 - Depositing of refuse, construction debris, spoil, petroleum products, vehicle or equipment waste water.
 - Dumping of limbs, stumps, and other clearing debris.
 - Revised site grades which cause existing drainage patterns to change.
 - Conducting trenching operations within drip line of trees.
 - Grading within the drip line of trees.
 - Lighting of any fire, including cooking and warming fires, in or within close proximity of protected areas.
- THE CONTRACTOR SHALL INSURE THAT THE ABOVE PRACTICES DO NOT OCCUR.**
- All trees which are not to be preserved are to be removed in a manner that will not damage those trees and/or plans which are to remain. Any trees that are to remain that have been damaged during the clearing operation must be repaired in an approved manner by a Maryland Licensed Arborist (tree expert) as soon as final clearing has been completed.
 - Along the limit of disturbance, the contractor shall remove Virginia Spires that will not be expected to survive in healthy condition. This determination shall be made by the Professional Arborist. The contractor shall notify the engineer within one week after clearing operations are complete to provide direction.
 - Any trees inside the designated tree save areas that are effectively destroyed by construction activities shall be left in place until their condition has been verified by the Arborist and grading inspector. The contractor shall replace said trees per the direction of the Arborist and grading inspector.
 - Trees damaged unnecessarily shall be subject to mitigation at the rate of \$1.50 per square foot of the drip line or crown.
 - Upon completion of construction, the following must be done:
 - Removal of protected trees destroyed or seriously injured as the result of construction activities.
 - Treatment of tree wounds and removal of broken branches of protected trees injured by construction activities.
 - Removal of all delineation materials and temporary protective devices after approval by the Department of Environmental Resources of the condition of protected trees.
 - All surplus materials, trash, debris, and rubbish shall be removed from the site. All backfill shall be cleared of building material, stone, rubbish, and construction debris in general.

PLANTING AND MANAGEMENT OF REFORESTATION AREAS

- Seedlings for reforestation shall be 12" minimum height and shall be installed per details in random distribution pattern at the rate of 1,000 seedlings per acre. Seedlings shall be installed per the following quantities per acre:

Species/Tree Type	Quantity per Acre
White Oak (Quercus alba)	200
Red Oak (Quercus rubra)	200
Liquidambar (Liquidambar styraciflua)	150
American Sycamore (Platanus occidentalis)	100
Red Maple (Acer rubrum)	100
Flowering Dogwood (Cornus florida)	100
- Planting of seedlings should be completed in spring or fall, soon after site is prepared.
- Reforestation areas shall be checked by the client representative according to the following schedule:
 - 1st year: 3 field visits - spring, summer and fall.
 - 2nd & 3rd years: 2 field visits - spring and fall.
 - 4th & 5th years: 1 field visit - during growing season.
- Numbers of healthy planted seedlings will be collected during each visit and compiled to estimate total survival rates.
- A 75% seedling survival rate after 5 years is the goal of this management plan. Survival rates below 50% may require replacement or mitigation.
- Fertilization, watering, and other enhancement measures will be implemented on an "as needed" basis, dependent upon conditions of the seedlings.
- Reforestation areas shall receive perimeter fencing consisting of 2 strands of smooth wire and, if possible, posts recycled from existing tree save area protection devices. Signs indicating reforestation areas shall be placed at regular intervals of 50' and mounted on fence posts. Signs shall be oriented to the exterior. Smooth wire fencing and signage shall remain around reforestation areas for the entire 5 year management period. Fencing may be removed at the conclusion of the fifth year.
- Prior to planting operations any vegetation within 12' of the proposed seedling location shall be removed leaving a 24" diameter planting bed for each seedling. Immediately upon completion of the seedling planting operations a 3" thick layer of an approved wood mulch shall be installed covering the 24" diameter seedling planting bed.

Revised Planting Schedule (7/25/12) - Bare root seedlings	
2,300 Loblolly Pine (Pinus taeda)	
500 Sweetgum (Liquidambar styraciflua)	
400 Black Locust (Robinia pseudoacacia)	
100 Redbud (Cercis canadensis)	
3,300 Total seedlings	

Woodland Conservation Worksheet for Prince George's County Government Projects	
Property Description or Subdivision Name:	Sandy Hill Landfill
Zone:	R-O-S
Gross Tract:	249.00
Existing Woodland = WCT	85.77
Woodland Cleared	3.29
Total area of woodland cleared (subject to 1:1 replacement)	3.29
Woodland Conservation Requirement:	86.77
Woodland Conservation Provided:	63.48
Woodland preserved	3.29
Reforestation	
Prior Credit for Off-site Mitigation	
Current Credit for Off-site Mitigation	
Off-site Mitigation provided on this property	
Total Woodland Conservation Provided	86.77

QUALIFIED PROFESSIONAL CERTIFICATION

This plan complies with the current requirements of Subtitle 25 and the Woodland and Wildlife Conservation Technical Manual.

Signed: *John P. Markovich* Date: 7/26/12

John P. Markovich
JM Forestry Services, LLC
11552 Timberbrook Drive
Waldorf, MD 20601
(301) 645-4977
jpmarkovich@comcast.net

STATE OF MARYLAND
DEPARTMENT OF AGRICULTURE
BOARD OF FORESTERS

M-NCPPC Prince George's County Planning Department Environmental Planning Section	
APPROVAL TREE CONSERVATION PLAN TCP2-009-96	
Approved by	Date
John P. Markovich	1/29/1996
01 Revision	
02 Revision	
03 Revision	
04 Revision	
05 Revision	