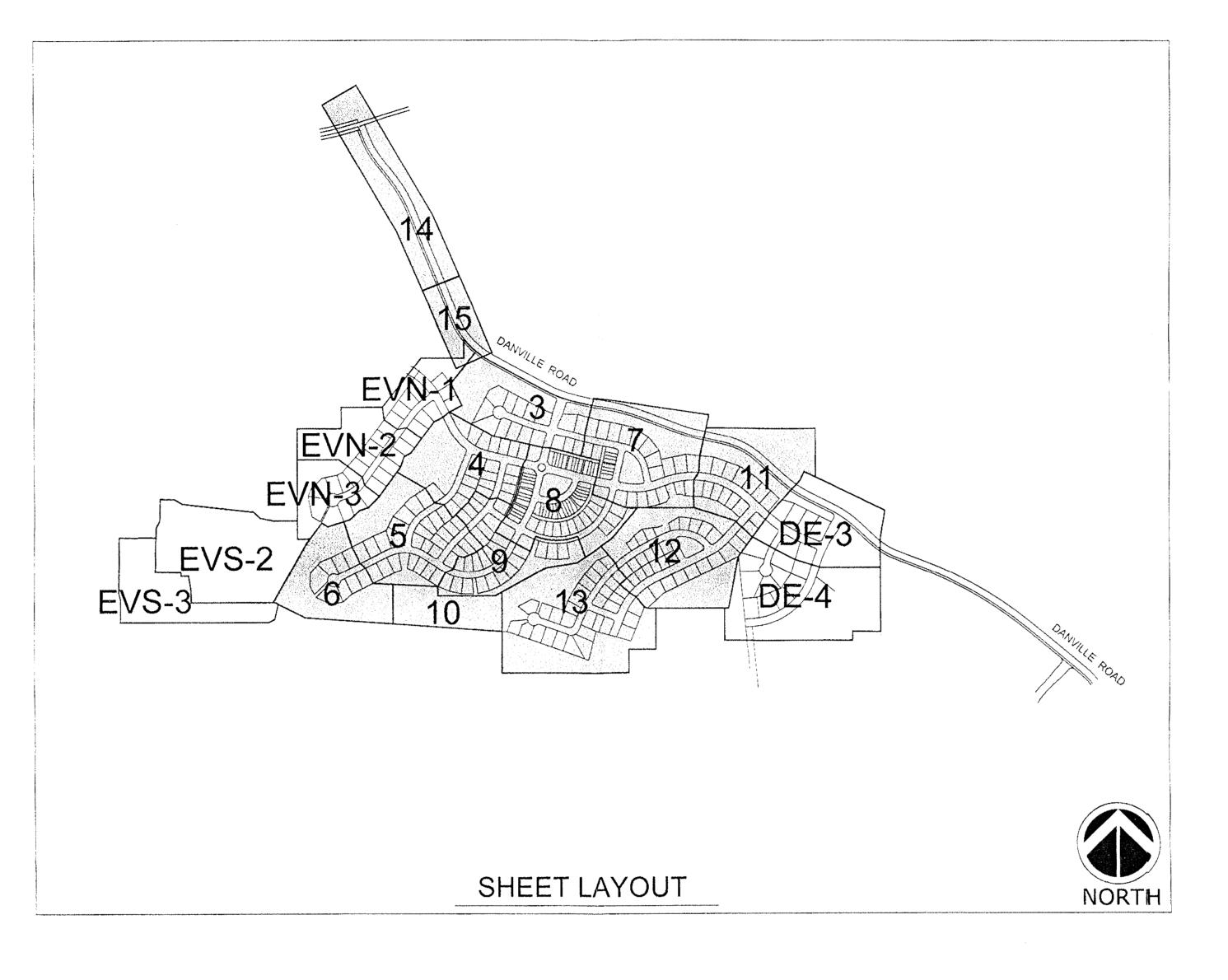
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PROPOSED TREE PRESERVATION		
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PROPOSED REFORESTATION		
TREE PROTECTION SIGNAGE		
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Prince	<b>M-NCPPC</b> Prince George's County Planning Department Natural Resources Division <b>APPROVAL</b> TREE CONSERVATION PLAN			
TCP =				
Prince	M-NCPPC George's County Planning De Environmental Planning Secti APPROVAL TREE CONSERVATION PLA? TCPII - 068-64	on		
	JL STASZ	12/12/04		
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# TYPE II TREE CONSERVATION PLAN THE PRESERVE AT PISCATAWAY LUSBYVILLAGEWEST&LUSBY VILLAGEEAST

Fifth (5th) Election District Prince George's County, Maryland

# April 5, 2004

Revised September 30, 2004 Revised May 10, 2007 Revised August 12, 2014 Revised October 27, 2014 Revised December 16, 2014

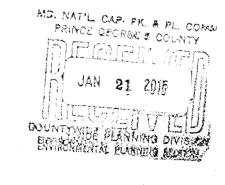
PREPARED BY: **Environmental** Systems Analysis, Inc. 48 Maryland Avenue Annapolis Maryland 21401 410.267.0495 esa www.esatoday.com

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PREPARED FOR: BAILEY'S ASSOCIATES, L.P. C/O GREENVEST L.C. 8614 WESTWOOD CENTER DRIVE SUITE 900 VIENNA, VIRGINIA 22182



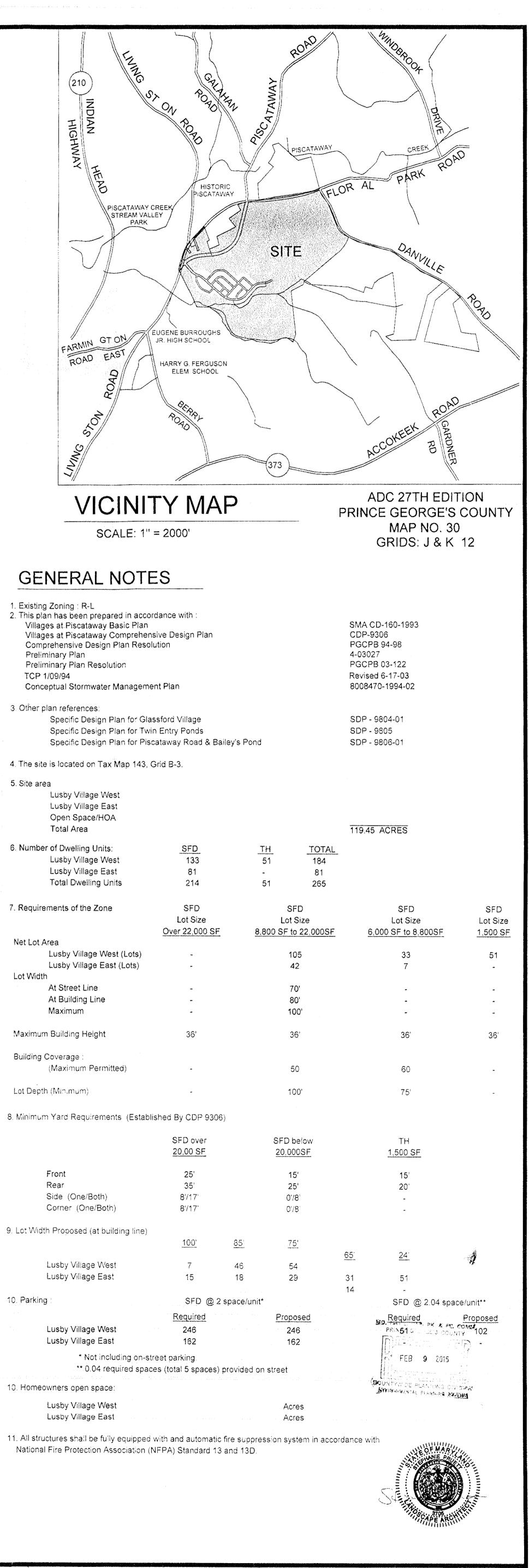




## ENGINEER:

GUTSCHICK, LITTLE, & WEBER P.A.

CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS 3909 National Drive, Suite 250, Burtonsville, Marylandi 20866



### **GENERAL NOTES**

- Preliminary Plan Resolution
- TCP 1/09/94
- Specific Design Plan for Glassford Village Specific Design Plan for Twin Entry Ponds Specific Design Plan for Piscataway Road & Bailey's Pond
- 4. The site is located on Tax Map 143, Grid B-3.

5	5. Site area			
	Lusby Village West			
	Lusby Village East			
	Open Space/HOA Total Area			
	Total Alea			
6	Number of Dwelling Units:	SFD	TH	TOTA
	Lusby Village West	133	51	184
	Lusby Village East	81	-	81
	Total Dwelling Units	214	51	265
7	. Requirements of the Zone	SFD	SF	'n
		Lot Size	Lot S	
		Over 22,000 SF	8,800 SF to	
	Net Lot Area	n an		
	Lusby Village West (Lots)	-	10	)5
	Lusby Village East (Lots)	-	4)	2
	Lot Width			
	At Street Line	**	70	)'
	At Building Line	-	80	)'
	Maximum	-	10	0'
1	Maximum Building Height	36'	36	6'
	Building Coverage :			
	(Maximum Permitted)	-	5	0
	Lot Depth (Minimum)	-	10	0'

8. Minimum Yard Requirements (Established By CDP 9306)

		,,,	- /	
		SFD over 20,00 SF		SFD below 20,000SF
	Front Rear Side (One/Both) Corner (One/Both)	25' 35' 8'/17' 8'/17'		15' 25' 0'/8' 0'/8'
9. Lot Wi	dth Proposed (at building li	ne) <u>100'</u>	85	75'
	Lusby Village West Lusby Village East	7 15	46 18	54 29
10. Parki	ing :	SFD @ 2	space/unit	
	Lusby Village West Lusby Village East	<u>Required</u> 246 162		<u>Proposed</u> 246 162
	** 0.04 required	on-street parking spaces (total 5 spaces)		n street.
10. Hom	eowners open space:	na na su innin su comu		
	Lusby Village West Lusby Village East			Acres Acres

#### Standard Type II T.C.P. Notes

#### Notes to include with all Plans:

1. 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 mitigation fee.

2. The Department of Environmental Resources (DER) must be contacted prior to the start of any work on the site to address implementation of Tree Conservation measures shown on this Plan.

3. Property owners shall be notified by the Developer or Contractor of any Woodland Conservation Areas (Tree Save Areas, Reforestation Areas, Afforestation Areas, or Selective Clearing Areas) located on their lot or parcel of land and the associated fines for unauthorized disturbances to these areas. Upon the sale of the property the owner / developer or owners representative shall notify the purchaser of the property of any Woodland Conservation Areas. 4. All appropriate bonds will be posted with the Building Official prior to the issuance of any permits. These bonds will be retained as surety by the Building Official until all required activities have been satisfied.

#### Notes to include on Plans when appropriate;

5. The location of all Tree Protective Devices (TPD's) shown on this Plan shall be flagged or staked in the field prior to the pre-construction meeting with the Sediment and Erosion Control Inspector from DER. Upon approval of the flagged or staked TPD locations by the Inspector, 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. 7. 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. 8. Woodland Conservation - Tree Save Areas and/or Reforestation Areas shall be posted as shown at the same time as Tree Protective Device installation and/or start of reforestation activities. These signs shall remain in place for a period of two (2) years.

#### General Type II T.C.P. Notes

#### NARRATIVE

This Type II Tree Conservation Plan has been prepared for the 119.45 acre Lusby Village East & West Property which is part of the Preserve at Piscataway development located in Prince George's County, Maryland. The plan identifies 81.93 acres of existing forest to be cleared for the placement of infrastructure and proposed single family residential housing. The remaining forested areas (21.40 acres) will be preserved. 2.29 acres of reforestation has been provided. The goals of forest preservation at the Preserve at Piscataway property include:

- -provide a biofiltering buffer for the existing wetlands -provide a visual screen for the adjacent residential communities
- -preserve wildlife habitat
- -protect steep slopes GENERAL NOTES

1. This reforestation plan is provided in accordance with the requirements of the Prince George's County Woodland Conservation and Tree Preservation Acts (CB-106-1992 and CB-107-1992).

2. These Type II plans are to be used for Tree Conservation purposes only.

3. No tree cutting or clearing shall take place on this site without the expressed written consent of the Prince George's County Planning Board, its designee, or the approval of this Type II Tree Conservation Plan (TCP).

4. The Prince George's County Department of Environmental Resources (DER) is in charge of enforcement of the Tree Conservation Plan. Any violation of the approved Type II TCP may result in the issuance of a stop work order and/or a mitigation fee of \$1.50 per square foot of woodland area destroyed unless otherwise agreed to by both DER and the Maryland-National Capital Park & Planning Commission (M-NCPPC). TREE PROTECTION

1. Following approval of the Type II TCP and prior to construction, the Limits of Disturbance (LOD) will be marked in the field. 2. The Owner's representative will hold a pre-construction meeting before any grading or clearing activities. This meeting will include the construction manager, the chief equipment manager and operator, a representative of the Department of Environmental Resources Permits and Review Division/Inspection & Code Compliance Section (301-731-8790), and any other personnel involved in construction activities within 100 feet of the Limits of Disturbance (LOD). During this meeting, the LOD will be inspected and the location of all tree protection devices will finalized. Adjustments to the LOD may be made at this time. In addition, the following items will be covered by the owner's representative; -the importance and overall goal of the Tree Conservation Program

-the critical role of construction personnel in the success of the Tree Conservation Program

-the reasons for tree protection devices -construction methods to ensure the protection of Woodland Conservation Areas

3. Tree Protection Devices for this site will consist of orange safety fence with temporary tree protection signs. These devices will be installed along the LOD boundary prior to any disturbance or clearing activity. Typical details and installation methods for these devices appear on this sheet. Tree protection signs shall be freestanding and not attached in any fashion to existing trees. The installation of tree protection signs and tree protection devices is the responsibility of the general

contractor. 4. No equipment, vehicles, machinery, waste, or construction materials shall be stored or dumped within the Woodland Preservation Areas. Moreover, no disturbance to these areas shall be allowed. In the event of a violation of this approved Type II TCP, fines may be levied and/or enforcement action taken by the Prince George's County Department of Environmental Resources as specified above.

5. The general contractor shall provide a "WASH-OUT" area for concrete trucks on site. This area shall be selected so that no run-off from this area may enter the Woodland Conservation Areas. The location of this "WASH-OUT" area shall be identified by the contractor during the pre-construction meeting.

6. The owner's representative shall monitor the general contractor's construction from time to time to ensure the proper protection of the Woodland Conservation Areas and adherence to these plans and specifications. The owner may issue a "Stop Work Order" if, in the opinion of his representative, the general contractor is exercising procedures that are detrimental to the vitality of the trees within the Woodland Conservation Areas. At that time, the County Inspector shall determine if any trees have been damaged beyond repair. If the contractor has damaged trees beyond repair, then the general contractor shall be responsible for all forest mitigation required by the Prince George's County Department of Environmental Resources. 7. All trees to be removed within 50 feet of designated Woodland Conservation Areas shall be felled away from Woodland Conservation Areas to avoid any damage to preserved trees. The stumps of trees removed within this 50 foot zone shall be ground out with a stump grinder or other method in order to minimize damage to root systems of trees to be preserved. This

work shall be completed by a Maryland Licensed Tree Expert. 8. Unless otherwise approved by Prince George's County, Tree Protection Devices shall be maintained in place until construction completion and final inspection by the Department of Environmental Resources Permits & Review Division.

9. If damage to woodland preservation areas is found during final inspection, the owner may be required to perform the following:

-stress reduction measures (e.g., root pruning)

-tree or limb removal -replacement planting

SPECIMEN TREES

There are no specimen trees located in Lusby Village West or Lusby Village East.

REFORESTATION

A total of 49.25 acres of Woodland Conservation is required under this Type II Tree Conservation Plan for the clearing of existing forest at Lusby Village East and West. Woodland Conservation will be provided by conserving 21.40 acres on-site and providing 2.29 acres of reforestation. The remaining 25.56-acres of required conservation will be addressed on future TCPII's for the Preserve at Piscataway project.

LONG TERM MANAGEMENT PLAN FOR WOODLAND PRESERVATION AREAS

1. The objective of woodland preservation is to allow the forest community to develop naturally with little or no interference by man. Activities within these areas shall be limited to passive recreation 2. Any disturbance to these areas following construction must first be approved by Prince George's County Planning Director.

Cutting or clearing of these areas without approval shall be subject to a \$1.50 per square foot mitigation fee. 3. Upon the sale of each lot, the owner/developer or the owner's representative shall be responsible for notifying the purchaser

of any Woodland Conservation Areas and the associated fines for unauthorized disturbances to these areas.

Container Planting Detail	Tree Protection Fence
Not to Scale	Blaze Orange Plastic Fence
Tree Saucer 3" Mulch	Anchor posts should be minimum 2' steel to channel or 2'x 2' timber at kest 6' in length MAXIVUM 8 FEET MAXIVUM 1 MAXIVUM 8 FEET 1 MAXIVUM 1 1 MAXIVUM 1 MAXIVU
<ul> <li>Scarify sides of root pa'l and planting site.</li> <li>Planting hole is twice the diameter of the root bal</li> <li>Root ball to be planted at the same depth as grown in the nursery.</li> <li>In wet greas, plant with 1/4 of root ball above the ground.</li> </ul>	<ol> <li>FOREST PROTECTION DEVICE ONLY</li> <li>RETENTION AREA WILL BE SET AS PART OF THE REVIEW PROCESS.</li> <li>BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED PRIOR TO INSTALLING DEVICE.</li> <li>ROOT DAMAGE SHOULD BE AVOIDED.</li> <li>PROTECTIVE SIGNAGE MAY ALSO BE USED.</li> <li>DEVICE SHOULD BE MAINTAINED THROUGHOUT CONSTRUCTION.</li> </ol>

	Woodland (	Conservation Works	heet								
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Weedland Conservation Collectation         Net Tract         Pulsophan         OP-Size Impacts           Sector (3) Note (2)         114 00         4.42         Herrory           Sector (3) Note (2)         25.53         Herrory         4.42         Herrory           Sector (3) Note (2)         25.53         U.03         2.00           Weedland Clearly glasses of the Policy         6.00         Adversary         4.42           Weedland Clearly glasses of the Policy         81.63         U.03         2.00           Model of Clearly glasses of the Policy         6.00         Adversary         4.42           Model of Clearly glasses of the Policy         6.00         Adversary         4.42           Model of Clearly glasses of the Policy         0.00         = \$0.00         Adversary           Adversary         9.00         3.07         Adversary         Adversary           Adversary         1.00         2.85         Adversary         Adversary           Adversary         1.00         Adversary         1.00         Adversary           Adversary         1.00         Adversary         1.00         Adversary           Adversary         1.00         1.00         1.00         1.00           The Preservation Areas <td>Subdivision Na</td> <td>ame:</td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td>	Subdivision Na	ame:					-				
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TCP Revision Number:         2         0         2         0         0         1         1           TCP Approximation Date         42         0         0         2         0         0         1         1         5           SDP Pass on Number         SDP Ass on Number         SDP Ass on Number         3         4         1         5	Woodland above WC			364.85 Glassford							Open Space
SDP Revision Number         4         2         1         6         2         3         4         1           SDP Approxal Date         SDP Approxal Date         34/2020         In Review         7/2/2011         51/2012         1         50/2012         1         60/2012         1         50/2012         1         50/2012         1         50/2012         1         60/2012         1         1         60/2012         1         60/2012         1         1         1         1         1         1         1         1         1	TCP Approval Date:			4/29/2004	2/16/1999	6/15/2005	4/4/2012	0 12/28/2004	0 12/28/2004	1 4/10/2006	1 3/5/2008
SDP Certification Date         2/28/2025         In Review.         2/28/2025         In Review.         Certifies         Pending         In Review.         Certifies         Pending         In Review.         Certifies         Certifies         Pending         In Review.         Certifies         Certifies         Pending         In Review.         Certifies	SDP Approval Date			4	2	1 3/4/2004	6	2 In Review	3 1/28/2011	4 5/10/2012	1
Total Area in the application (area:       79.66       11.11       22.96       303.02       54.20       20.27       303.05         Net Tract area in the application (area:       0.33       0.00       0.00       82.25       3.33       54.20       22.07       303.05         Woodland on the Net Tract for this phase faces:       17.65       0.96       5.32       76.45       141.26       11.11       22.07       230.2       22.07       230.2       22.07       303.02       22.47       22.07       303.02       22.76       230.6       22.76       230.6       22.76       230.6       22.76       230.6       22.76       230.6       22.76       230.6       22.77       14.6       22.77       14.6       22.77       14.6       22.77       24.6       22.77       230.6       22.77       14.6       22.77       14.6       22.77       230.77       14.6       23.3       34.3       0.25       12.24       20.00       0.30       22.47       20.77       11.1       46.58       74.73       85.56       0.30       22.46       20.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00       0.00	SDP Certification Dat SDP Certification Sta	e: tus				2/28/2005		In Review	1/28/2011	9/25/2012	
Woodland on the Net Tract for this phase (series)         17.86         0.96         9.32         76.45         141.26         10.015         20.44           Woodland Cleared on Net Tract for this phase         0.03         0.00         0.00         51.46         3.33         3.43         C.25         15.22           Woodland Cleared in Floodplain for this phase         0.02         0.00         0.00         0.11         66.1         0.41         0.25         1.72           Offsite Woodland Cleared in Floodplain for this phase         0.00	Floodplain area in this	application (acres)	- - - -	79.66 0.03	1: 11 0.00	29 98 0.00	169.92 62.25	145.32 3.33	114.82 3.43	23 01 0.25	304.90 16 38
Woodland Cleared on Net Tract for this phase         10.27         0.77         1.11         46.58         74.73         55.96         0.30         24.68           Woodland Cleared in Floodplain for this phase         0.00         0.00         0.01         0.61         0.41         0.22         1.79           Off-site Woodland Presence for Magnetic acres of Net Tract Woodland cleared (e)         0.00 <t< td=""><td>Woodland on the Net Woodland in the Floor</td><td>Tract for this phase (acres) dpiain for this phase</td><td>       </td><td>17.86 0.03</td><td>0.96</td><td>9.32</td><td>76.45</td><td>141.26</td><td>110.15</td><td>0.35</td><td>204 54</td></t<>	Woodland on the Net Woodland in the Floor	Tract for this phase (acres) dpiain for this phase	     	17.86 0.03	0.96	9.32	76.45	141.26	110.15	0.35	204 54
Off-site Woodland Preservation/Regeneration provided on this property Cummulative acres of Net Tract Woodland cleared (e)         0.00	Woodland Cleared in	Floodplain for this phase		0.00	0.77 0.00	1.11 0.00	46.58 0.11	74.73 0.61	85.96 0.41	0.30 0.25	24.58 1.79
Cummulative acres of Floodplain woodland cleared         0.00         0.00         0.00         0.00         0.11         0.72         1.13         1.38         3.17           Smaller of d or e         Woodland Clearing below WCT         10.27         11.04         12.15         58.73         133.46         219.42         219.72         244.30           Woodland Clearing below WCT         0.00	Off-site Woodland Pre Cummulative acres of	eservation/Regeneration provided on th Net Tract Woodland cleared (e)	is property	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Replacement for clearing above the WCT (0.25 : 1)         2.57         2.76         3.04         14.68         33.37         54.86         54.93         61.08           Replacement for clearing below the WCT (2 : 1)         0.00 <t< td=""><td>Cummulative acres of Smaller of d or e</td><td>Floodplain woodland cleared</td><td></td><td>0.00 10 27</td><td>0.00 11.04</td><td>0.00 12.15</td><td>0.11 58.73</td><td>0.72 133.46</td><td>1.13 219.42</td><td>1.38 219.72</td><td>3.17 244.30</td></t<>	Cummulative acres of Smaller of d or e	Floodplain woodland cleared		0.00 10 27	0.00 11.04	0.00 12.15	0.11 58.73	0.72 133.46	1.13 219.42	1.38 219.72	3.17 244.30
Afforestation Threshold (AFT) =       19.85%       0.00 </td <td>Replacement for clea Replacement for clea</td> <td>ring above the WCT (0.25 : 1) ring below the WCT (2 : 1)</td> <td></td> <td>2.57 0.00</td> <td>2.76 0.00</td> <td>3 04 0.00</td> <td>14.68</td> <td>33.37</td> <td>54.86</td> <td>54.93</td> <td>61.08</td>	Replacement for clea Replacement for clea	ring above the WCT (0.25 : 1) ring below the WCT (2 : 1)		2.57 0.00	2.76 0.00	3 04 0.00	14.68	33.37	54.86	54.93	61.08
Woodland Conservation Provided           Preservation         7.00         0.19         8.21         29.41         30.25         21.26         0.05         179.79           Afforestation/Reforestation         0.00			·	0.00 <b>198.69</b>	0.00 198.88	0.00 199.16	0.00 <b>214.42</b>	0:00 <b>234.94</b>	0.00	0.00	0.00
Afforestation/Reforestation       0.00	Preservation			~~~~~			-		21.26	0.05	179 79
Cred t for Off-site Mitigation on another property       0.00	Afforestation/Reforestation/Reforestation			0.00 0.00	0.00 0.00	0 00 0.00	0.00 0.00	0.00 0.00	2 29 0 00	0.00 0.00	0.00 81.32
Off-site Afforestation/Reforestation provided on this property       0.00       <	Credit for Off-site Mitig Off-site Preservation p	gation on another property provided on this property		0.00	0.00	0 0 0	0.00	C.00	0.00	0.00	0.00
Existing Net Tract Woodland in later phases         543.03         542.07         532.75         456.3         315.04         204.89         204.54         179.96           Shortage /Surplus:	Off-site Afforestation/F	Reforestation provided on this property		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shortage /Surplus: 20100 20100 1000 2010	Existing Net Tract Wo	-								}	
	Minimum Woodland C		f Net Tract								

#### Reforestation Planting Schedule

#### 0.76 acres of reforestation = 33,105 sq.ft. 10 o.c. plant spacing = 331 total plants

Quantity	Common Name	Botanical Name	Size
26	Red Maple	Acer rubrum	24-36"
26	White Oak	Quercus alba	24-36"
26	Sweetgum	Liquidambar styraciflua	24-36"
26	Sycamore	Platanus occidentalis	24-36"
26	Pin Oak	Quercus palustris	24-36"
26	Serviceberry	Amelanchier arborea	24-36"
25	Eastern Redbud	Cercis canadensis	24-36"
25	Flowering Dogwood	Cornus florida	24-36"
25	Eastern Red Cedar	Juniperus virginiana	24-36"
25	Blackhaw Viburnum	Viburnum prunifolium	24-36"
25	Winterberry	İlex verticillata	24-36"
25	Elderberry	Sambucus canadensis	24-36"
	A		

Viburnum dentatum

#### **REFORESTATION ENHANCEMENT**

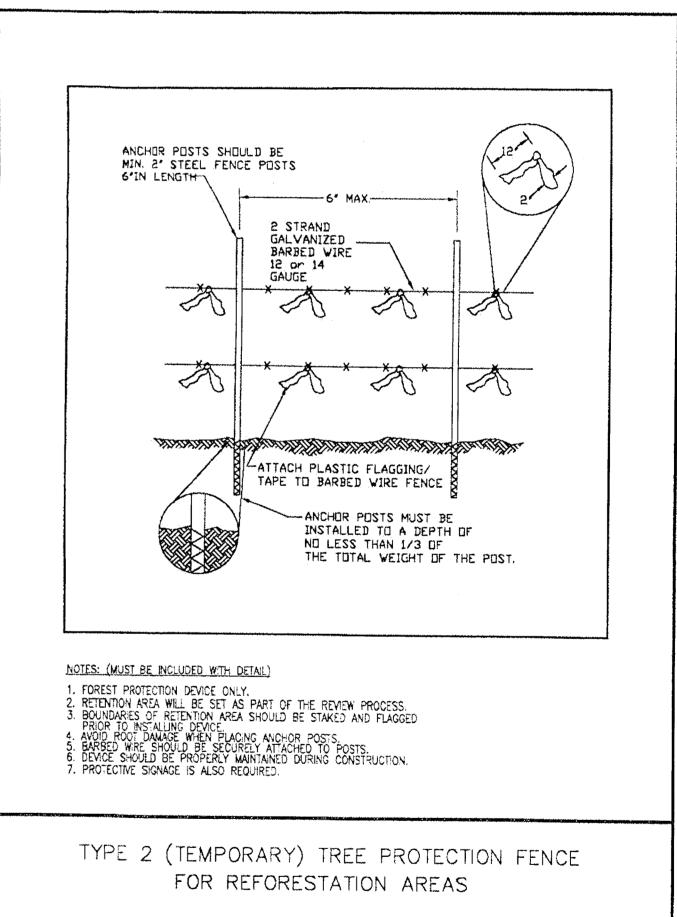
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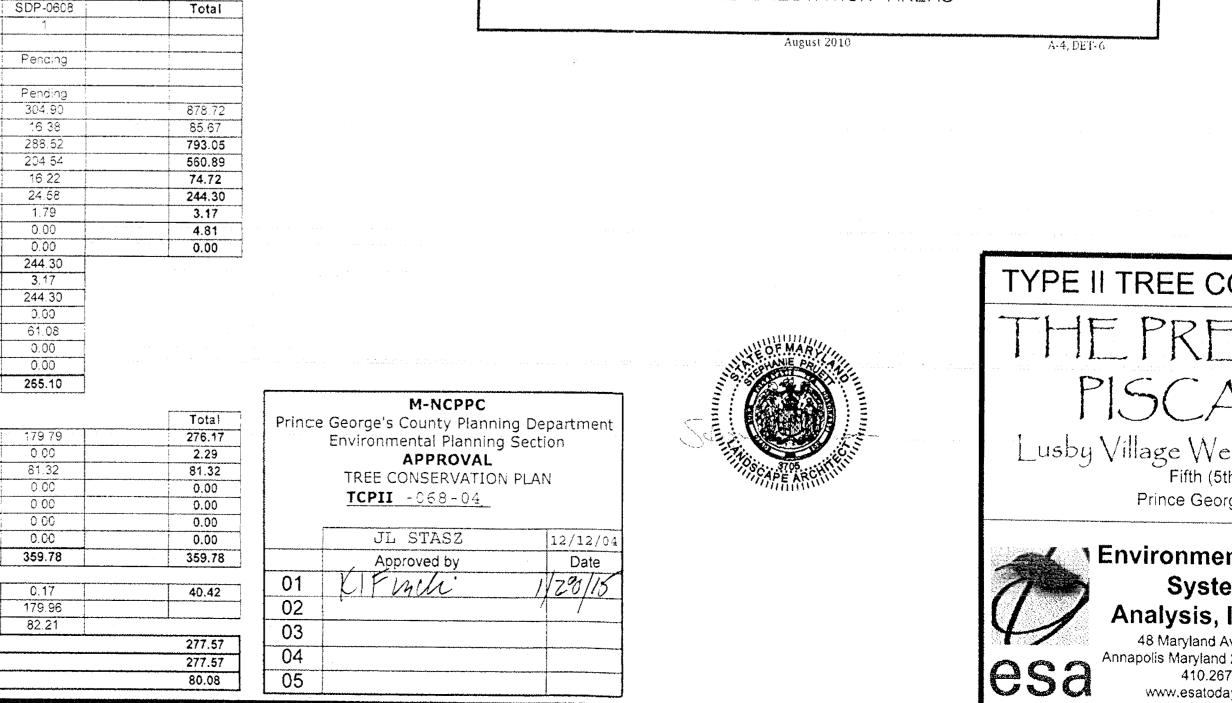
Arrowwood

1.53 acres of reforestation = 66,493 sq.ft. 12' o.c. plant spacing = 461 total plants

Quantity	Common Name	Botanical Name	Size
52 52 51 51 51 51 51 51	Willow Oak White Oak Flowering Dogwood White Fringetree Eastern Redbud Sweet Pepperbush Southern Arrowwood Winterberry Red Chokeberry	<i>Quercus phellos Quercus alba Cornus florida Chionanthus virginicus Cercis canadensis Clethra alnifolia Viburnum dentatum Ilex laevigata Aronia arbutifolia</i>	4-5' 4-5' 3-4' 3-4' 24-36'' 24-36'' 24-36''

#### Type 2 (Temporary) Tree Protection Fence





Container

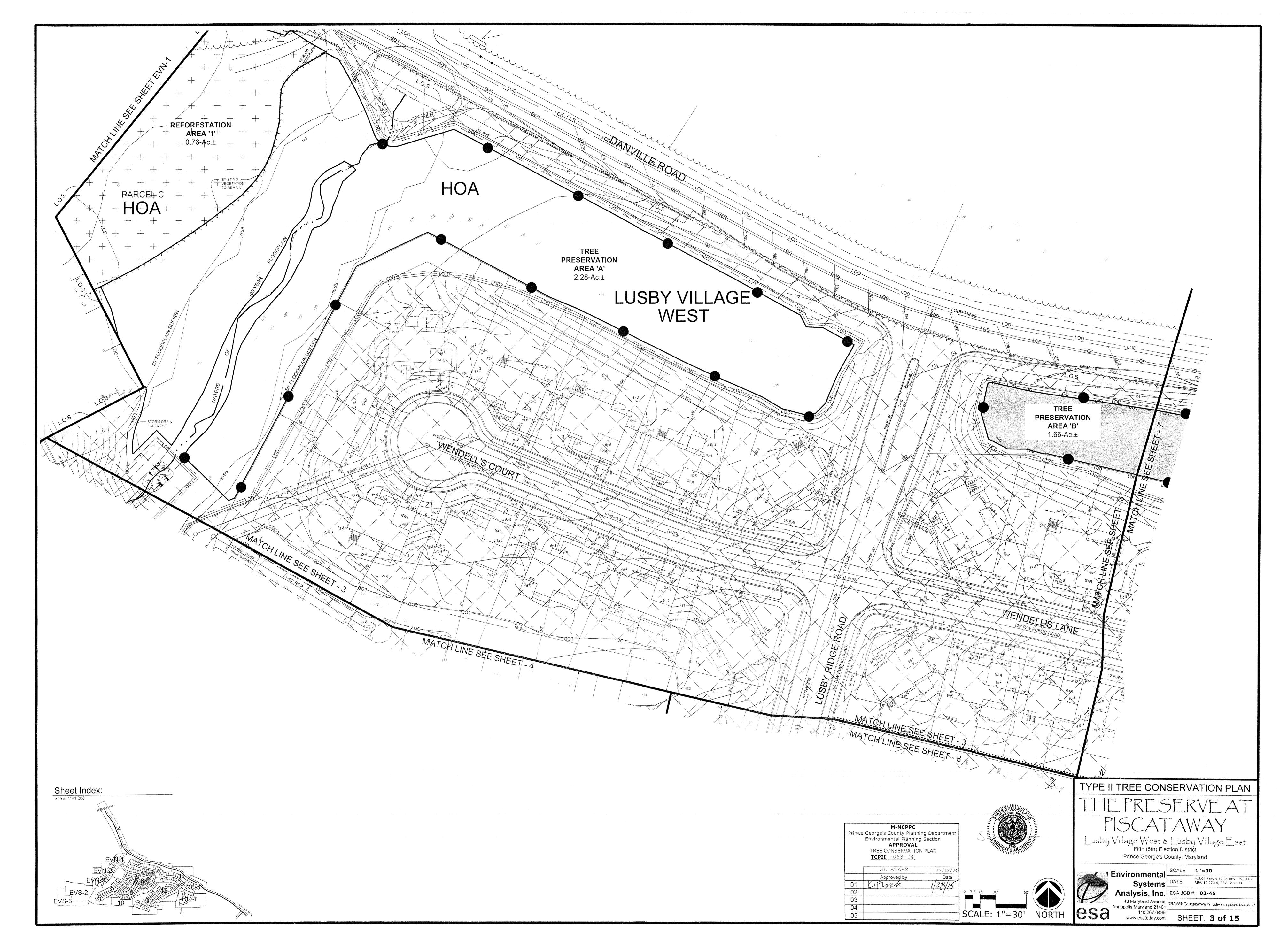
1	gal.
1	gal.

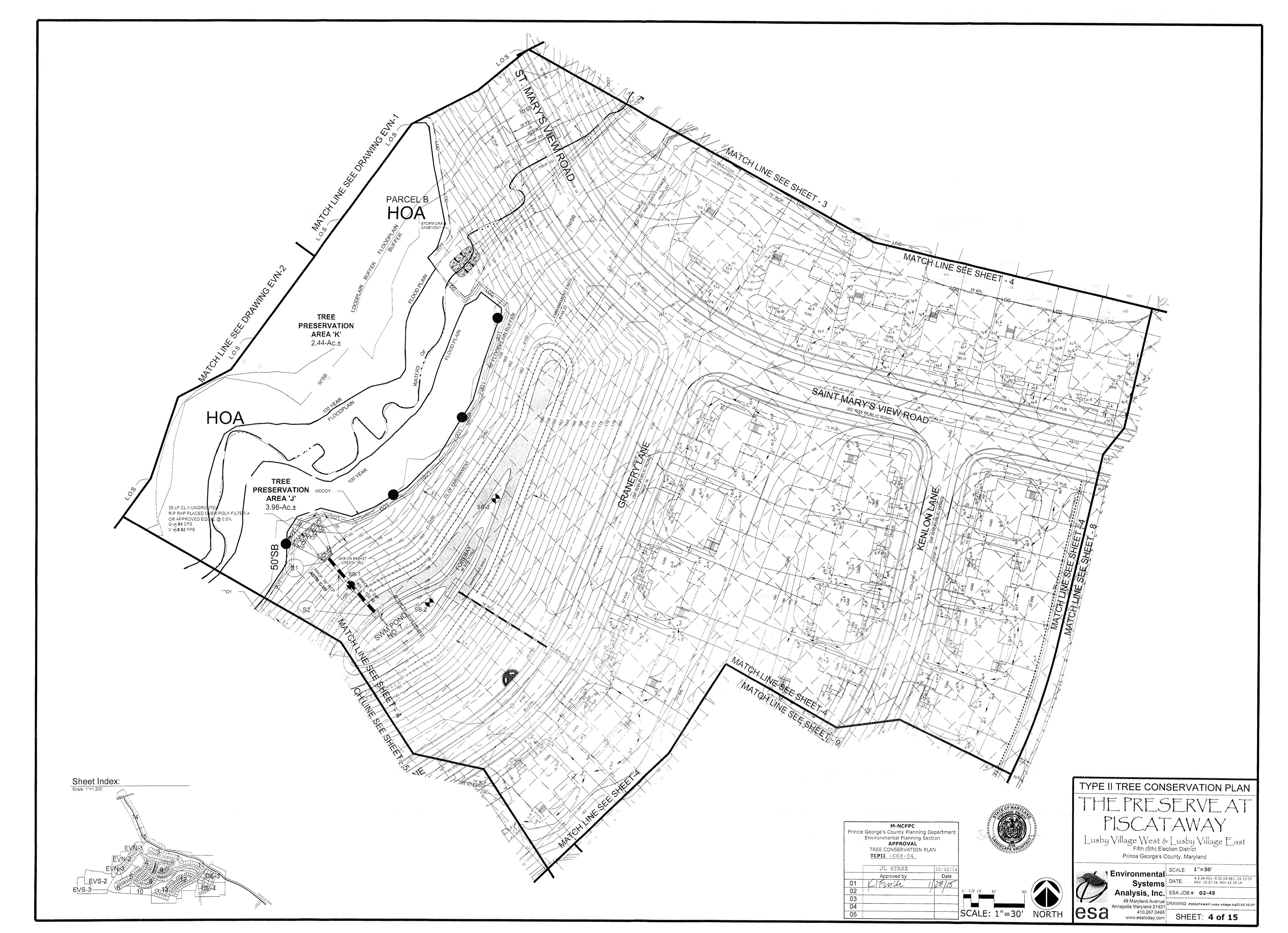
24-36"

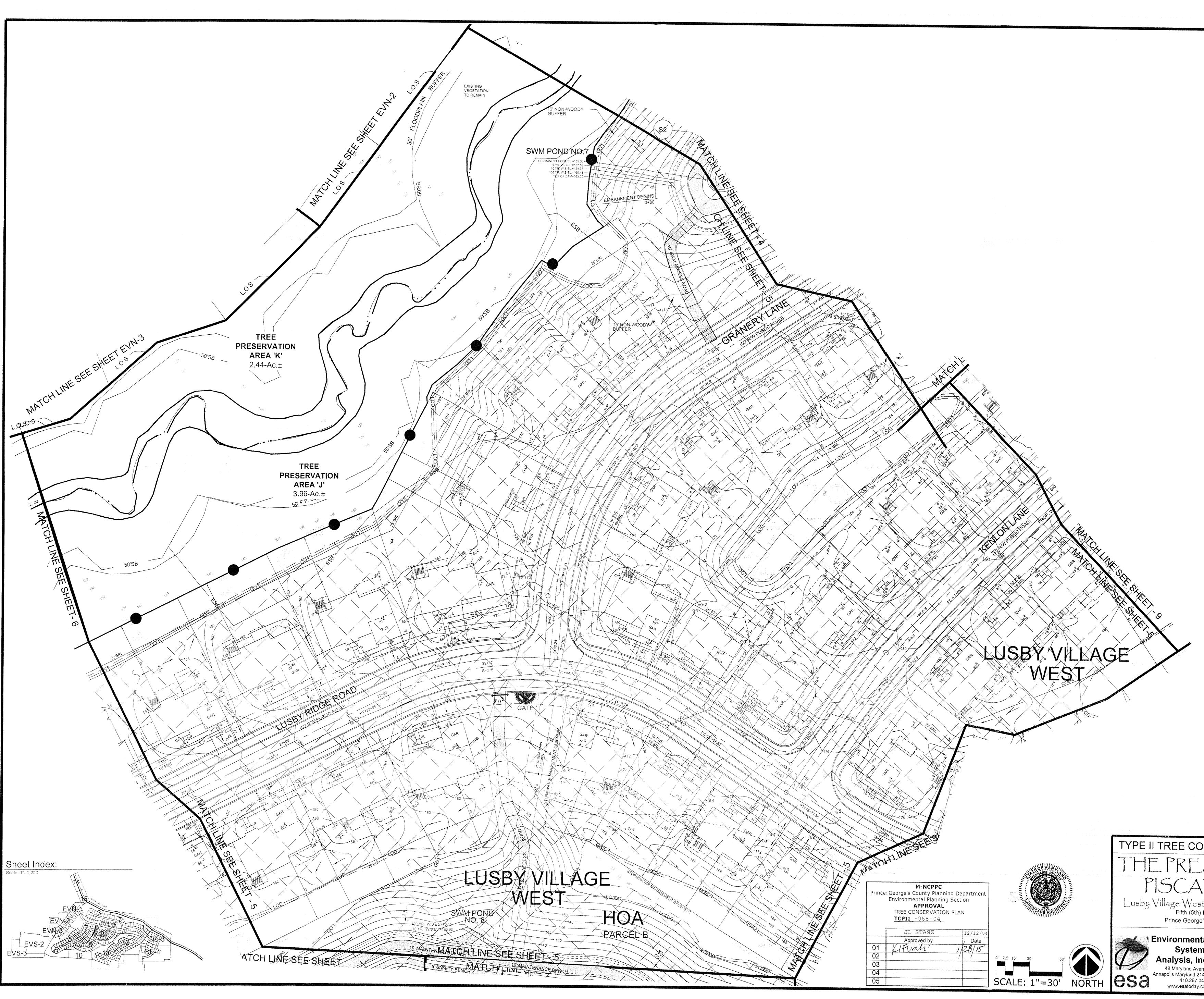
#### Container

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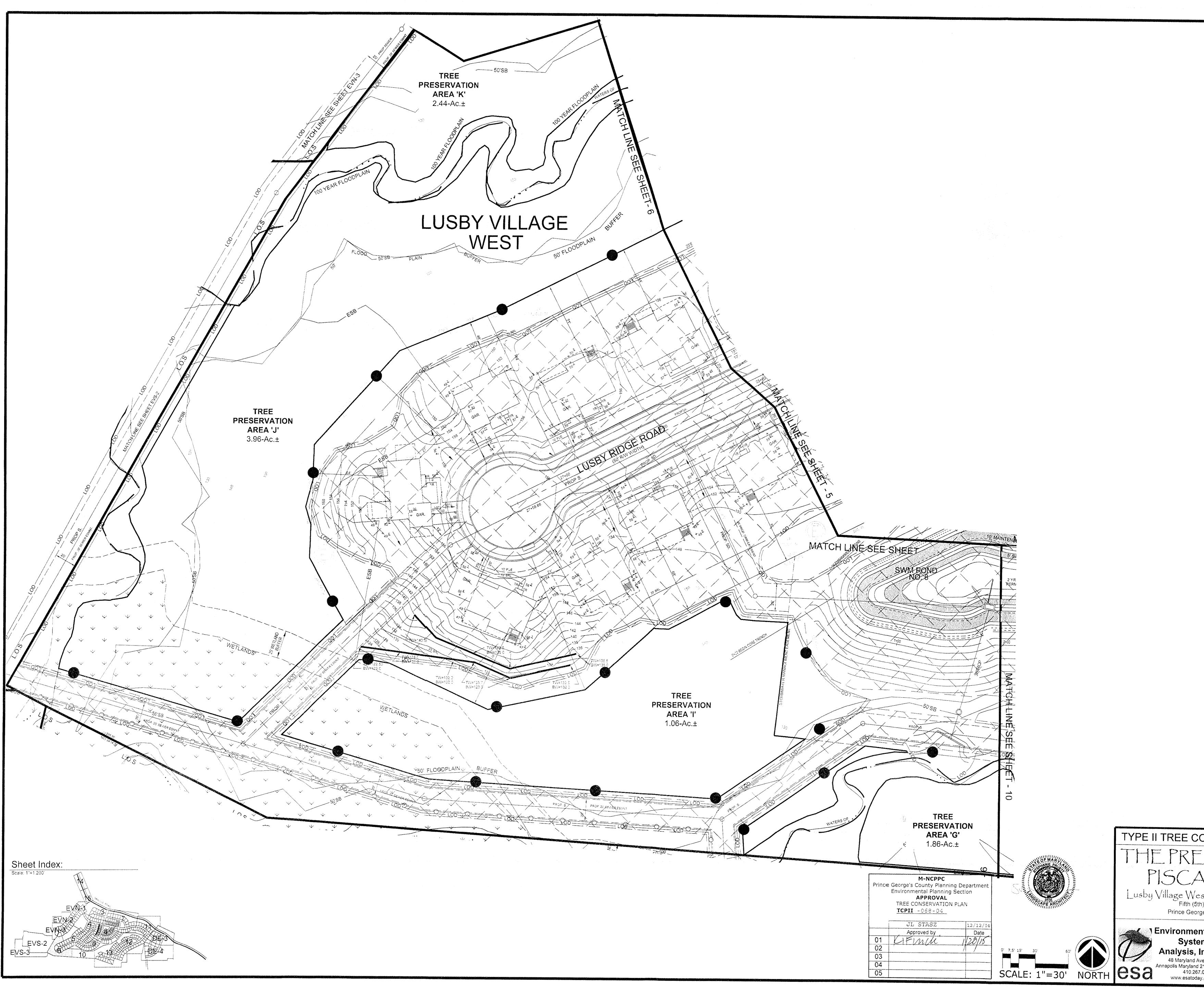
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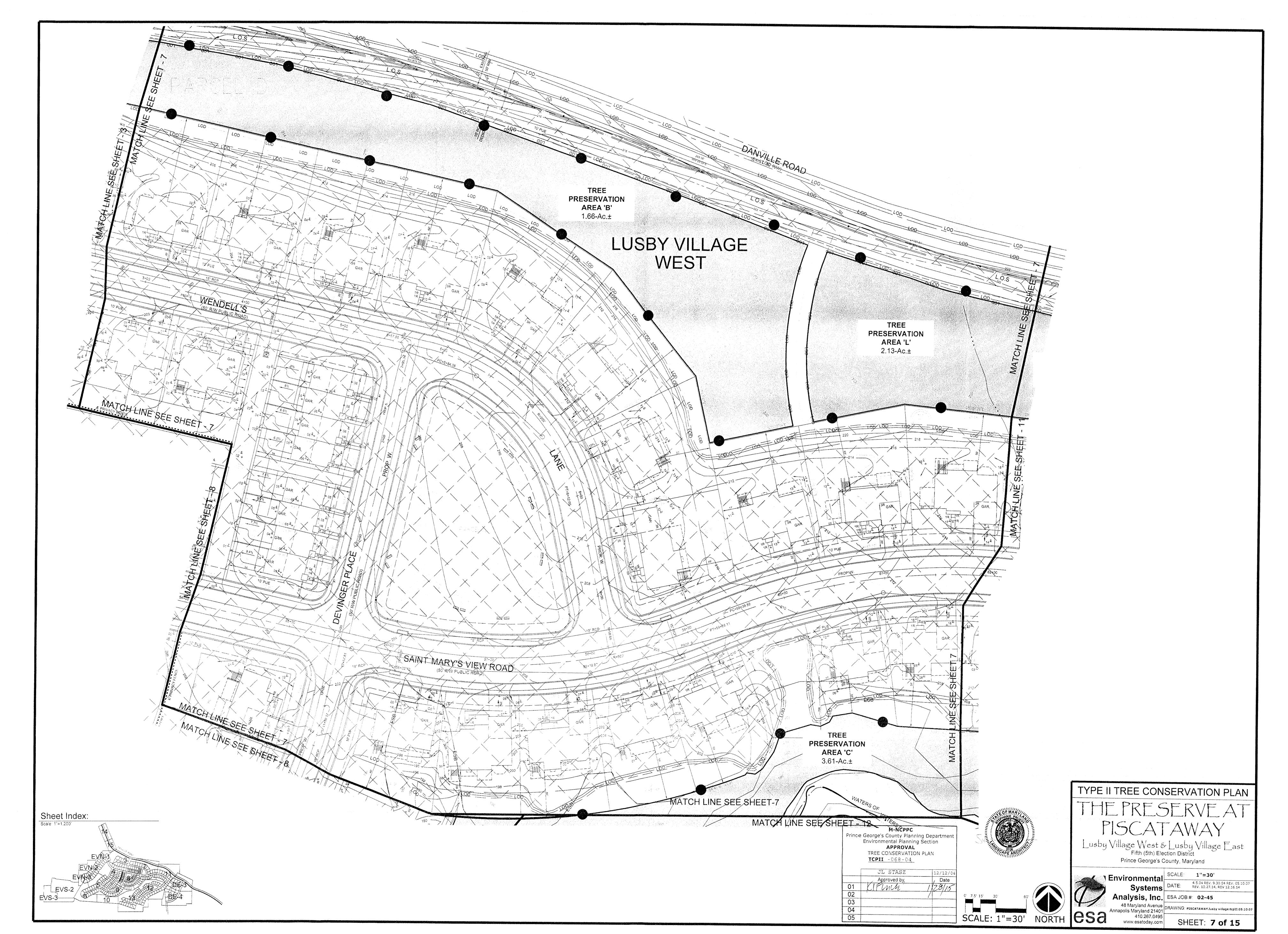


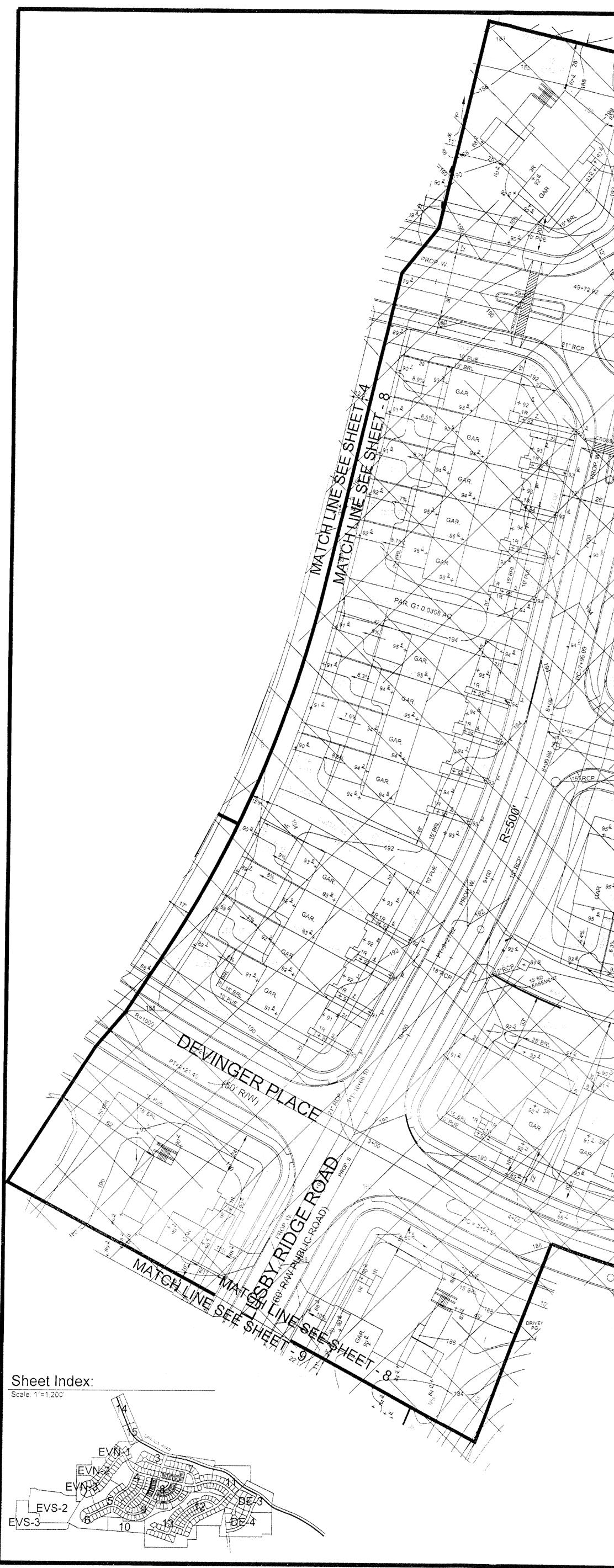


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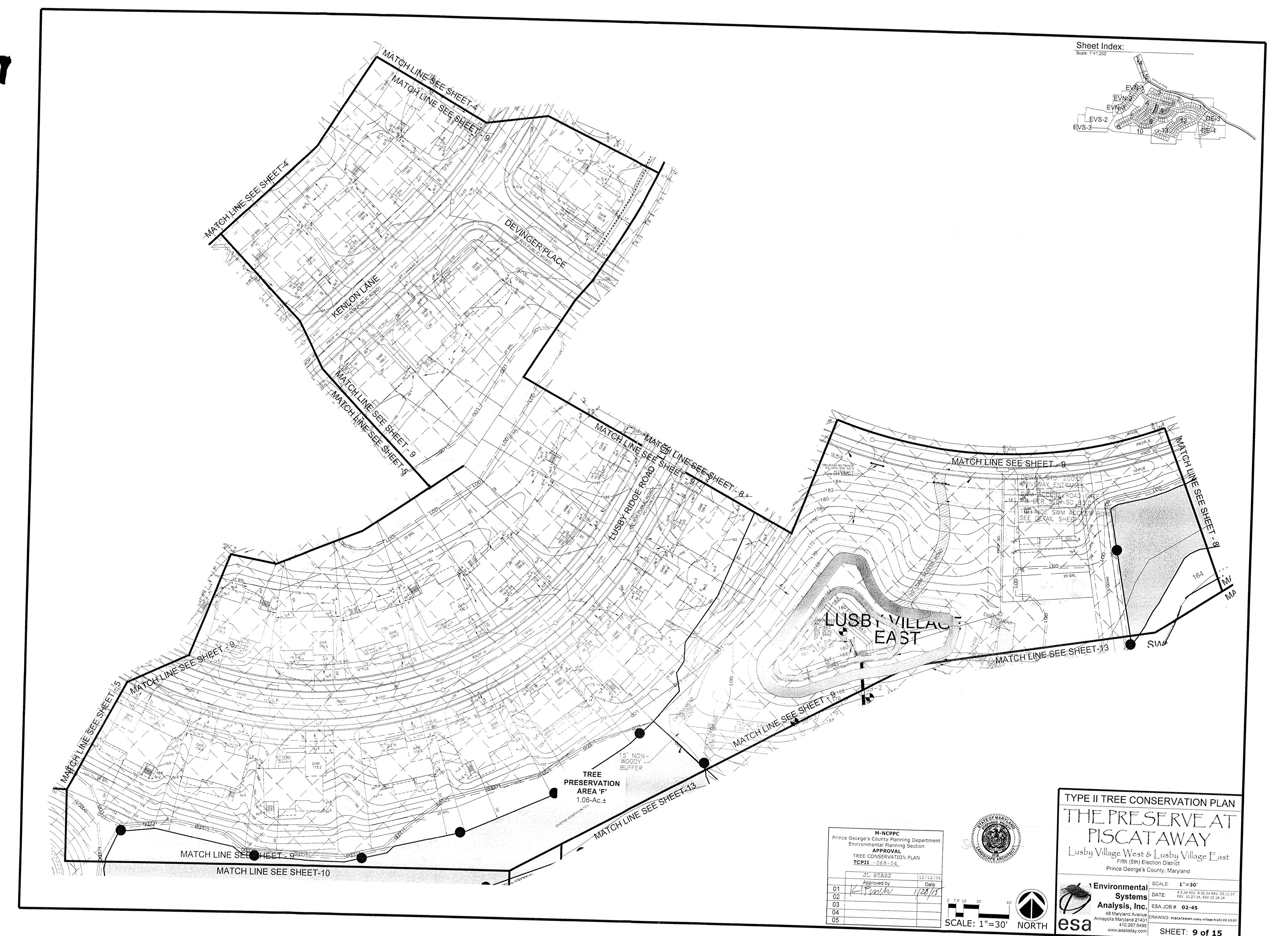
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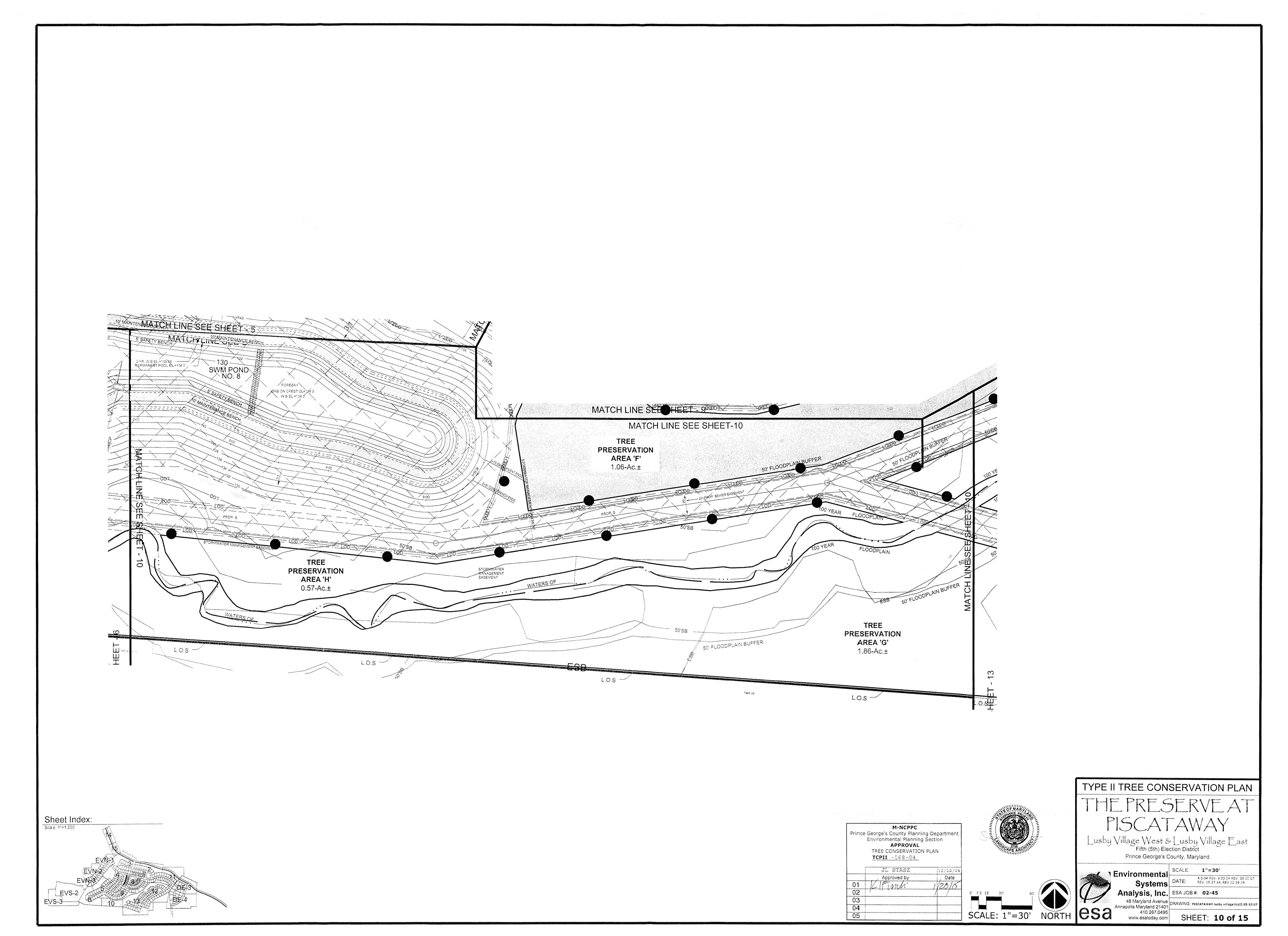


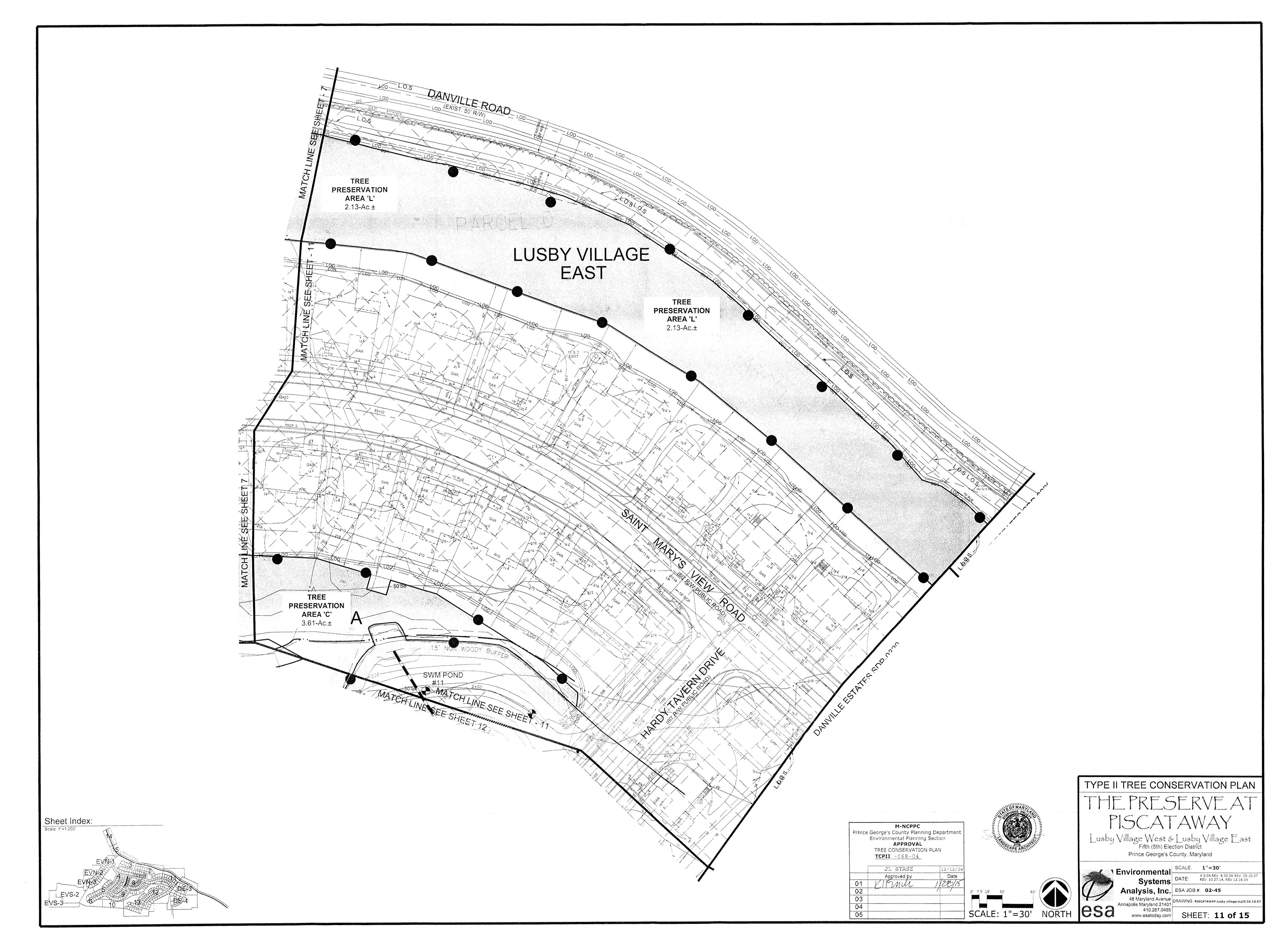


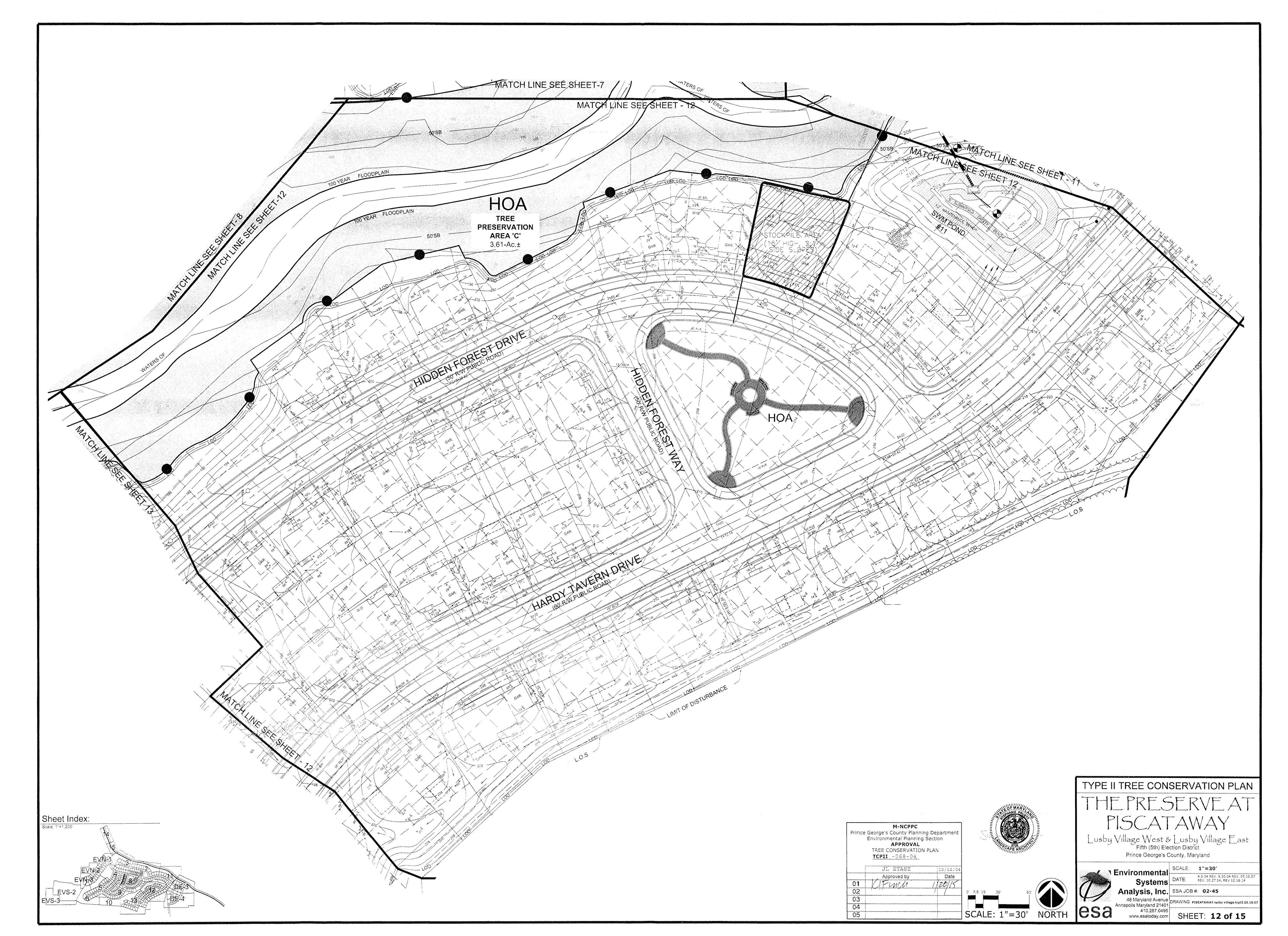
176 MATCH LINE SEE SHEET MATCHLINE SEE SHEET - 8 ROAD SBY ROP.5 (60' R/W PUBLIC ROAD) H LUSBY VILLAGE WEST EUSBY COURT PRIVATE STREET ALLEY S. MATCH LINE SEE SHEET 9 SE

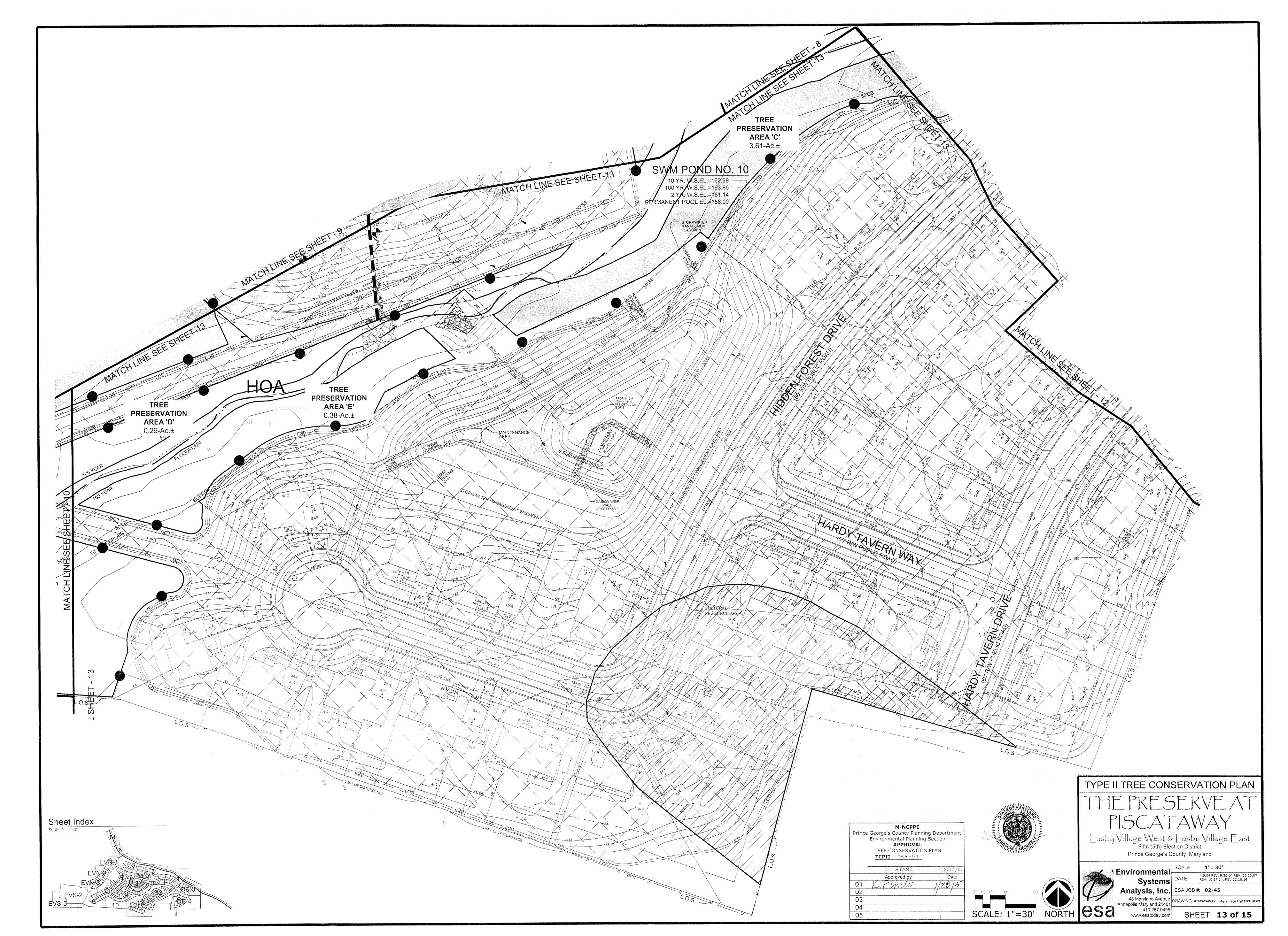


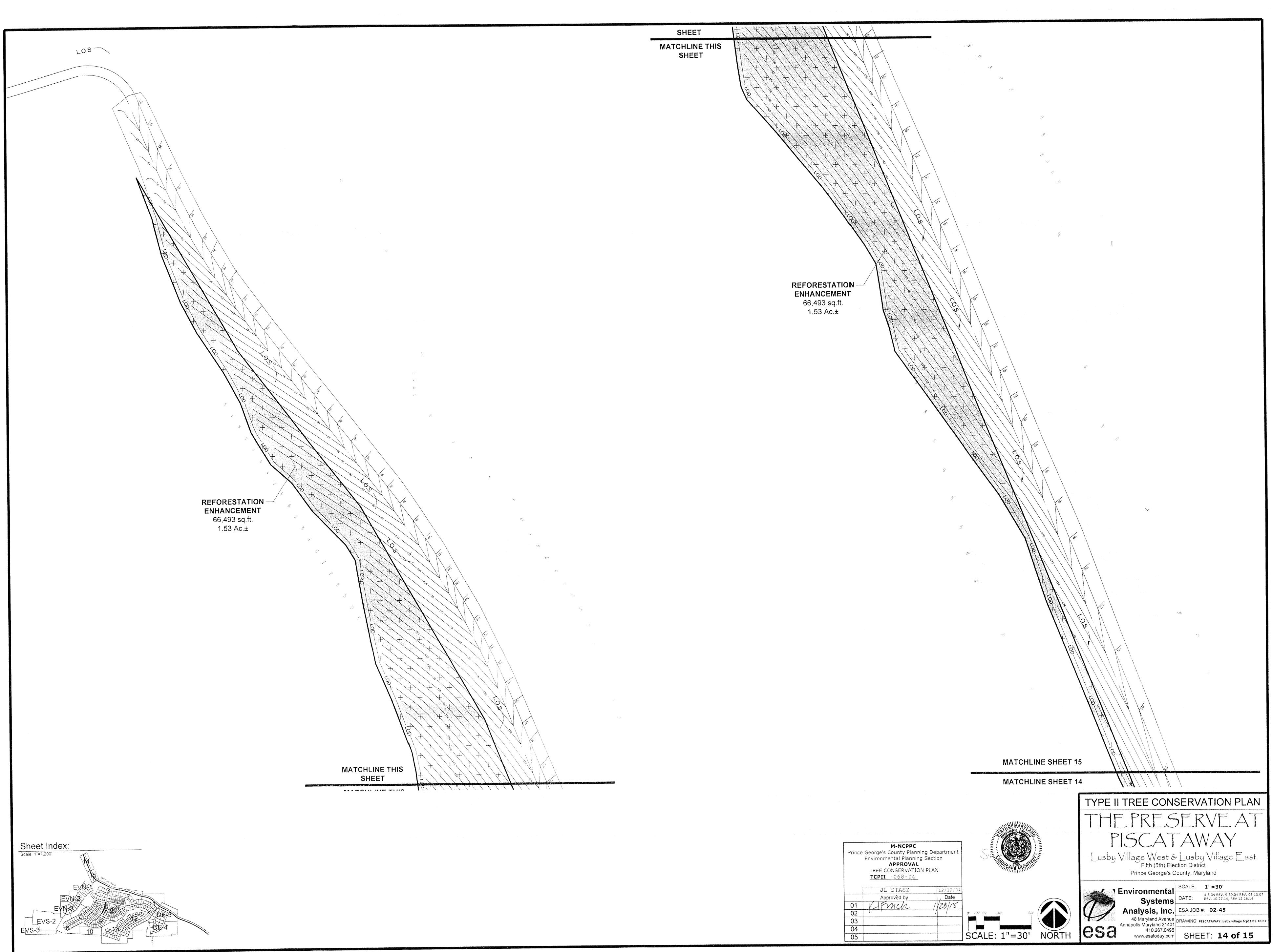




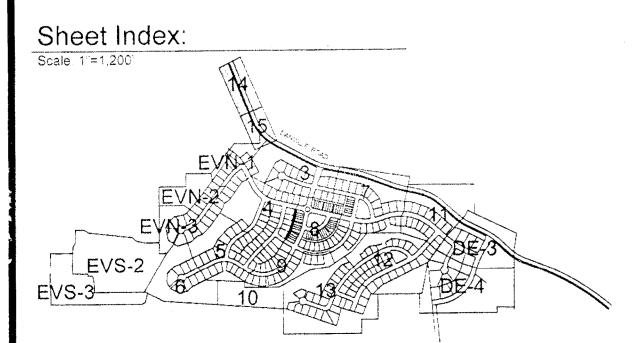




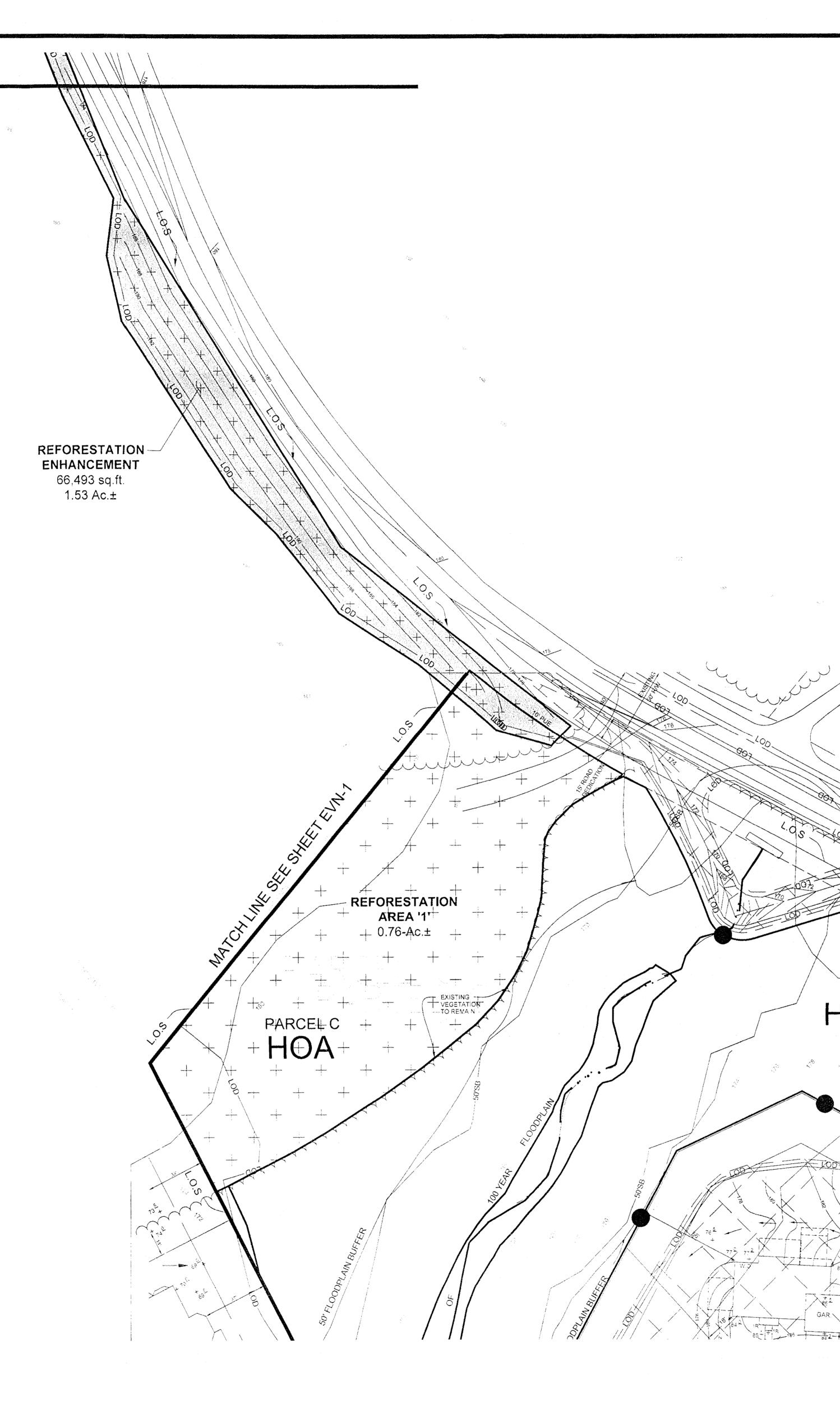




### MATCHLINE SHEET 14





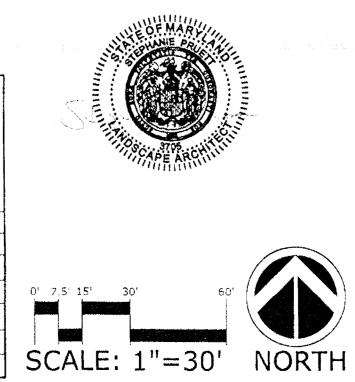


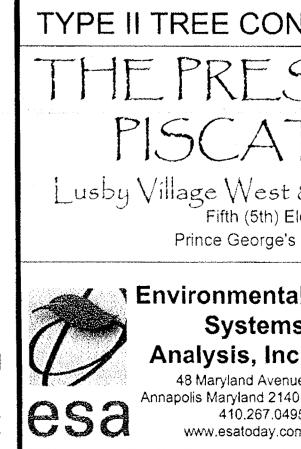
M-NCPPC Prince George's County Planning Department Environmental Planning Section APPROVAL TREE CONSERVATION PLAN TCPII -068-04			
	JL STASZ	12/12/04	
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