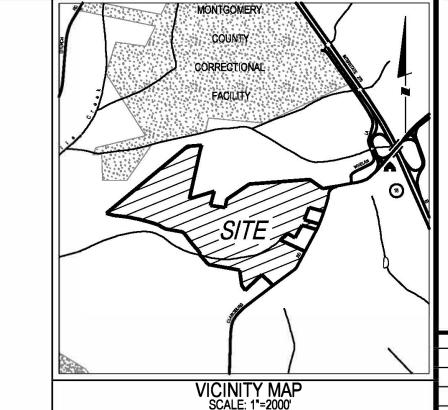


CLARKSBURG CHASE

PRELIMINARY / FINAL FOREST CONSERVATION PLAN F20240180



2 Research Place, Suite 100

Environmental Sciences

OWNER / DEVELOPER / APPLICAN

035 ALBERT EINSTEIN DRIVE OLUMBIA, MD 21046 (443) 206-5737

MARK ANDERSON

ZONING CATEGORY:

OVERLAY ZONE:

CLARKSBURG WEST

ENVIRONMENTAL

WATER / SEWER CAT

W3 / S3

DATE: 9/23/2024

DESIGNED: NC

ECHNICIAN: NC

CHECKED: DHP

CAD STD'S. VERSION: V8 / NCS

EV 123

WETLAND

LEGEND

PROPERTY LINE

EXISTING CONTOUR

PROPOSED CONTOUR

LIMIT OF DISTURBANCE

SPECIMEN TREE (GREATER THAN OR EQUAL TO 30" DBH)

(BETWEEN 24-29.9" DBH)

LIMIT OF FOREST STAND

EXISTING SOIL LINE AND LABEL

WETLAND BUFFER FLOODPLAIN

PARK DEDICATION BOUNDARY **EXISTING FOREST TO REMAIN** FOREST TO BE REMOVED

PLANTING AREA

FOREST PLANTING AREA	WSSC 200' SH
VARIANCE TREE MITIGATION PLANTING AREA FOREST CONSERVATION	231 NW 14 SITE DATUM HORIZONTAL: NA
EASEMENT SIGN 15% SLOPE	1° = 300°
25% SLOPE VARIANCE TREE MITIGATION	SHEET F1.(

P:\15483600\Engineer\Sheet_Files\ForestConservation_Sheet.dgn Model= 02-FCP-F20240180-001 Scale= 0.083333317 ' / in. User= klauretti PLTdrv= PDF_Grey_150.pltcfg 9/23/2024 2:30:07 PM

FOREST CONSERVATION WORKSHEET CLARKSBURG CHASE

PLANNING DEPARTMENT USE ONLY (E-PLANS)

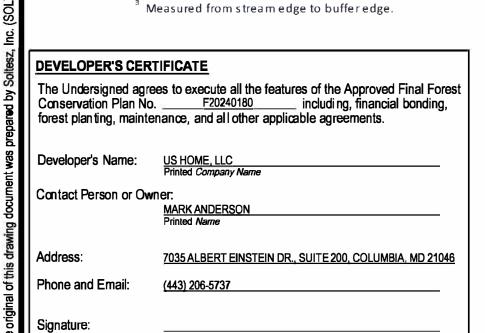
		CLARKS	SBURG CH	HASE			
NET TRACT AREA:							
A. Total tract area							136.17
B. Additions to tract are	ea (Off-Sit	e Work, etc	c.; constru	ction requ	ired by this	plan)	0.04
C. Land dedication acre	es (parks, o	county facil	ity, etc.)	•			0.00
D. Land dedication for	roads or u	tilities (con	struction	not requir	ed by this p	lan)	0.00
E. Area to remain in co	mmercial	agricultural	production	on/use			0.00
F. Other deductions (sp	pecify)	•••					0.00
G. Net Tract Area				=	;		136.22
LAND USE CATEGORY: (•			-			
Input the nui			ppropriate	land use,			
limit to only	one entry						
ARA	CDR	MDR	IDA	HDR	MPD	CIA	
0	1	0	0	0	0	0	
G. Afforestation Thresh	nold			20%	x G =		27.24
H. Conservation Thresh	nold			45%	x G =		61.30
EXISTING FOREST COVE	:R:						
Existing forest cover			=				75.51
J. Area of forest above				.=			48.27
K. Area of forest above	conserva	tion thresh	old	.=			14.21
BREAK EVEN POINT:							
L. Forest retention abo	ve thresh	old with no	mitigatio	n=			64.14
M. Clearing permitted	without m	nitigation		=			11.37
PROPOSED FOREST CLEA	ARING:						
N. Total area of forest t	to be clea	red	=				0.89
O. Total area of forest t	to be retai	ned	=				74.62
PLANTING REQUIREME	NTS:						
P. Reforestation for cle	aring abo	ve conse <mark>rv</mark> a	ation thres	shold=			0.45
Q. Reforestation for cle	earing bel	ow conserv	ation thre	shold=			0.00
R. Credit for retention	above con	servation t	hreshold .	=			13.32
S. Total reforestation re	equired		=	=			0.00
T. Total afforestation re	equired			=			0.00
U. Credit for landscapin					· ·		
project is located outside	de an EFA.	For projec	ts within E	FA, may n	ot exceed 2	20% of	0.00
V. Total reforestation a	and affore	station req	uired	=			0.00

worksheet date

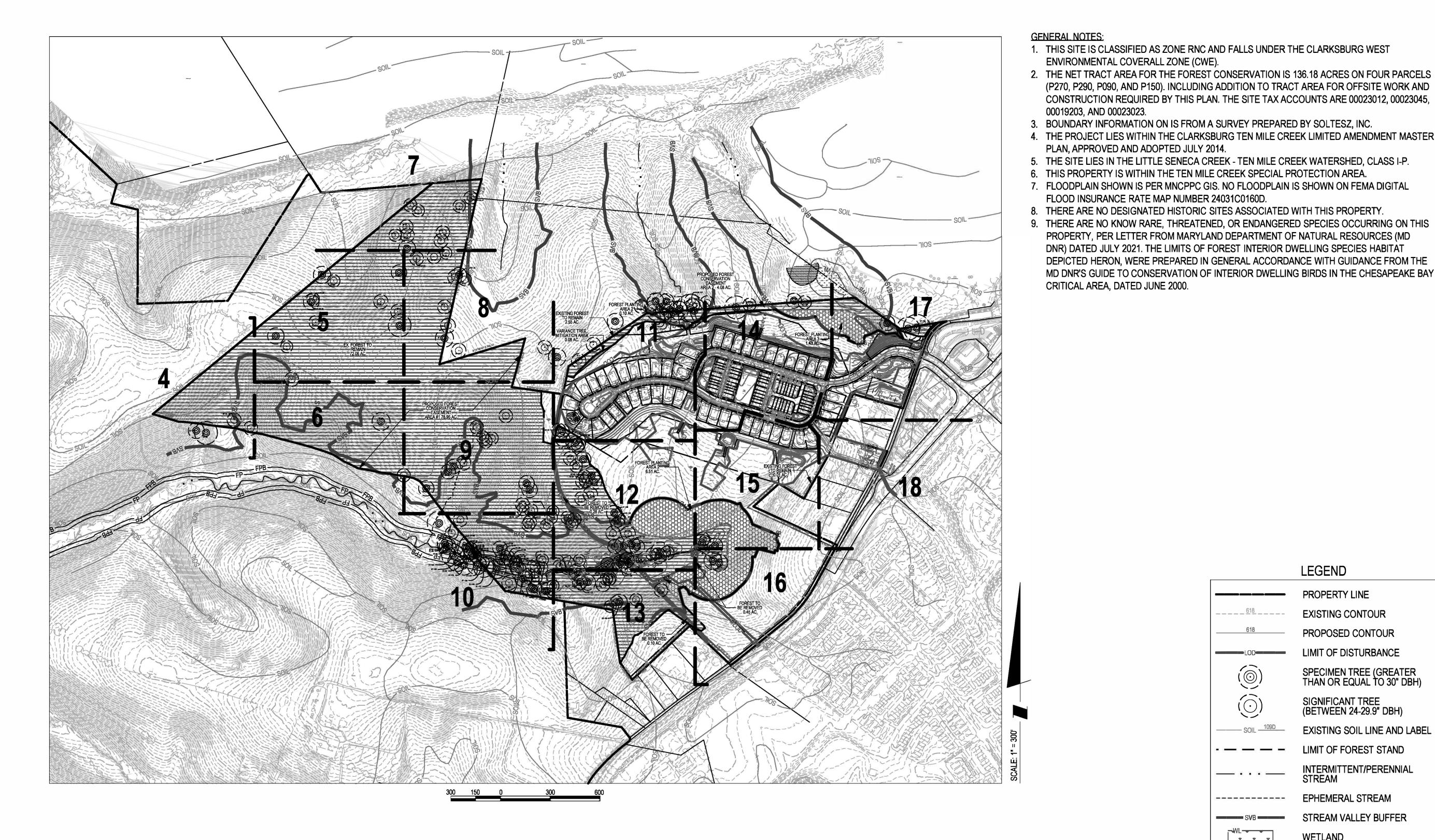
For	est Conservation	Data Table	
	Number of Acres		
Tract	136.22		
Remaining in Agricultural Use			
Road & Utility ROWs ¹			
Total Existing Forest	75.51		
Forest Retention	74.62		
Forest Cleared	0.89		
Land Use & Thresholds ²	CDD	404 600 4400 104 11	DD 14DD - CI4
Land Use Category	CDR	ARA, CDR, MDR, IDA, H	DR, MDP, or CIA.
Conservation Threshold	45%	percent	
Afforestation Threshold	20%	percent	
	Total Channel	Average Buffer	
	Length (ft.)	Width (ft.) ³	
Stream(s)	1,806	200	
Acres of Forest in	Retained	Cleared	Planted
Wetlands	0.42	0.04	0.04
100-Year Floodplain	0.81	-	0.81
Stream Buffers	26.19	0.52	8.00
Priority Areas	26.19	0.52	8.00

Only Road or Utility ROWs not to be improved as part of development application.

² Information from FC Land Use Categories & Thresholds document.

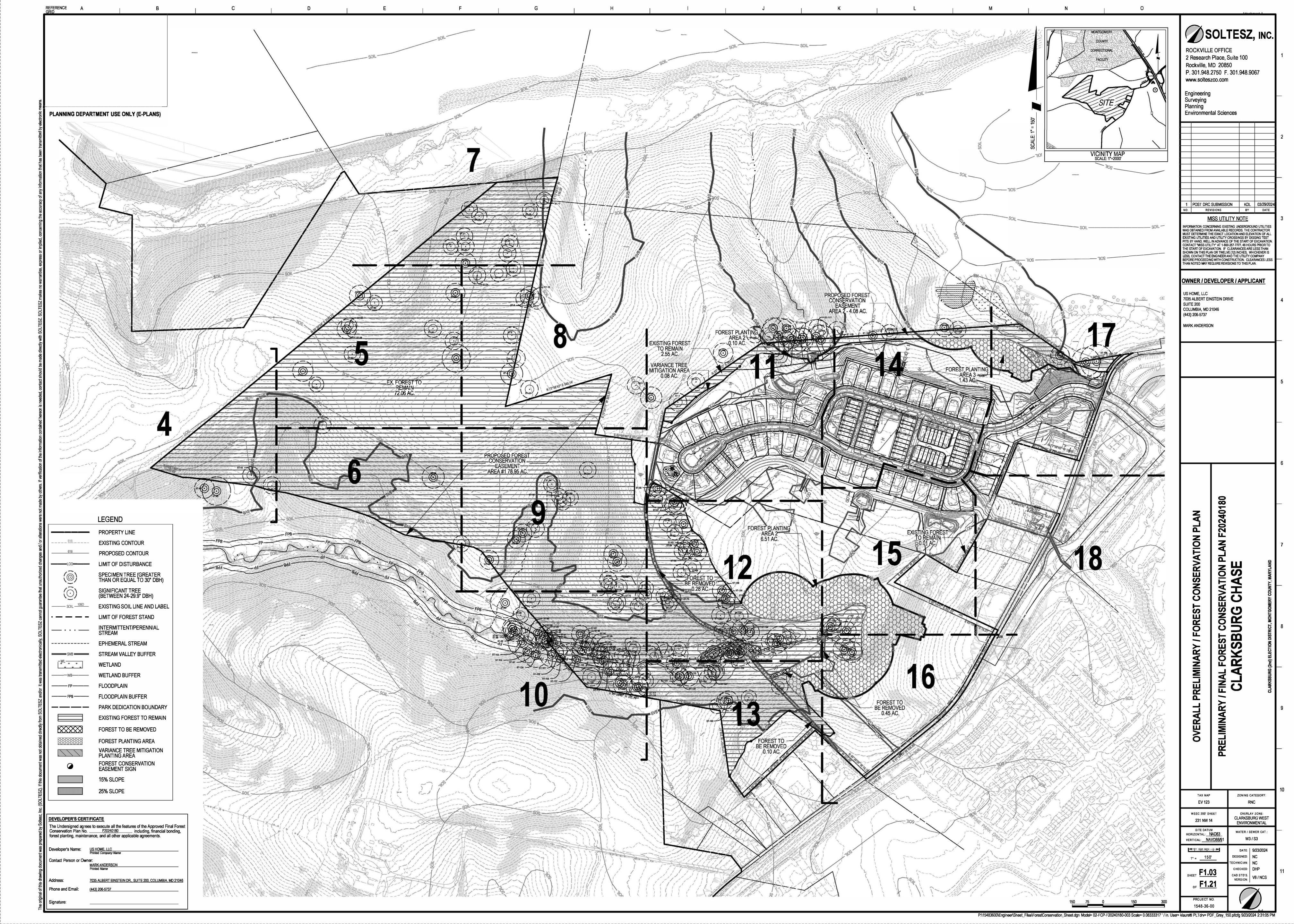


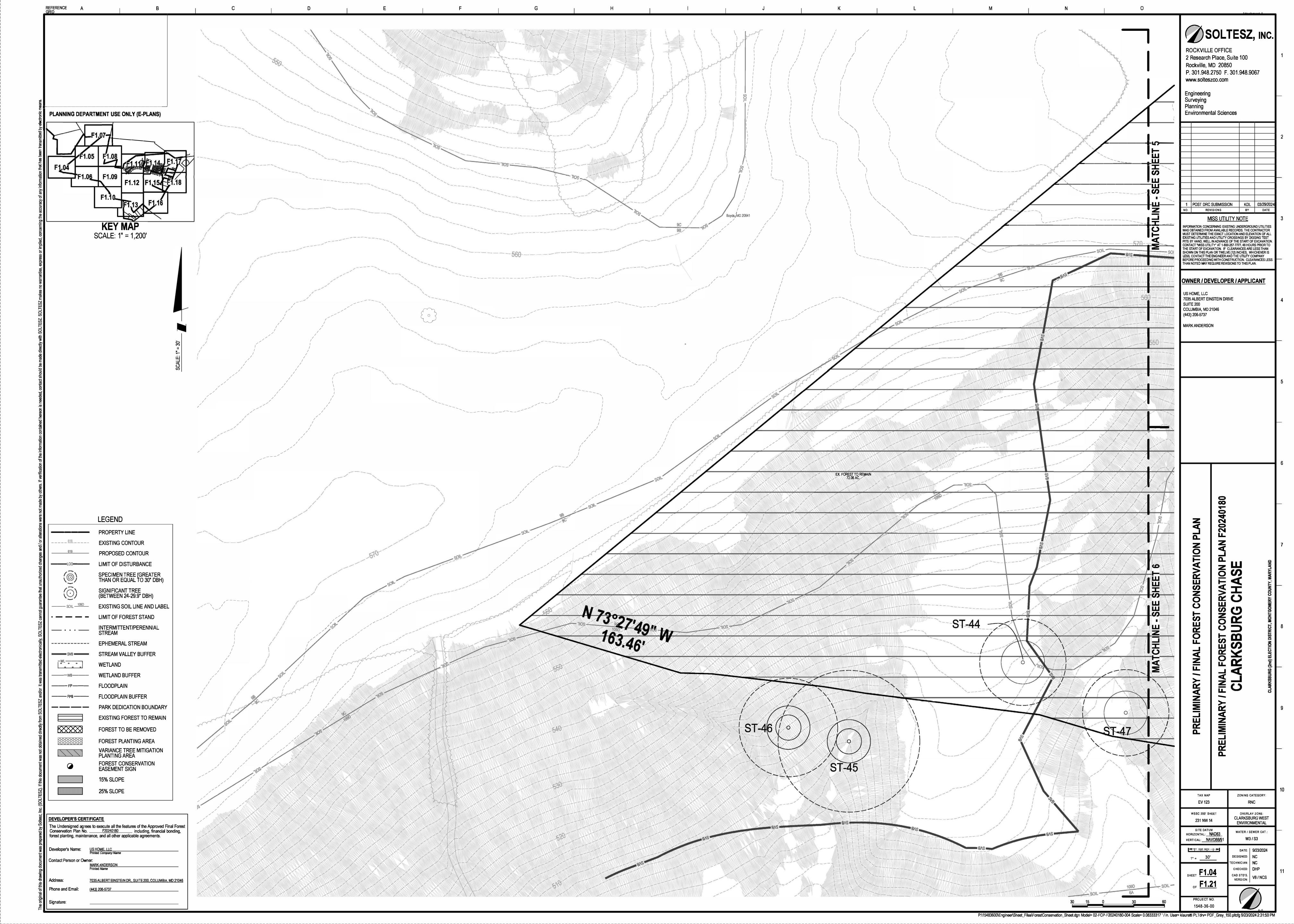
PLANTING AREA SVB Planting ..

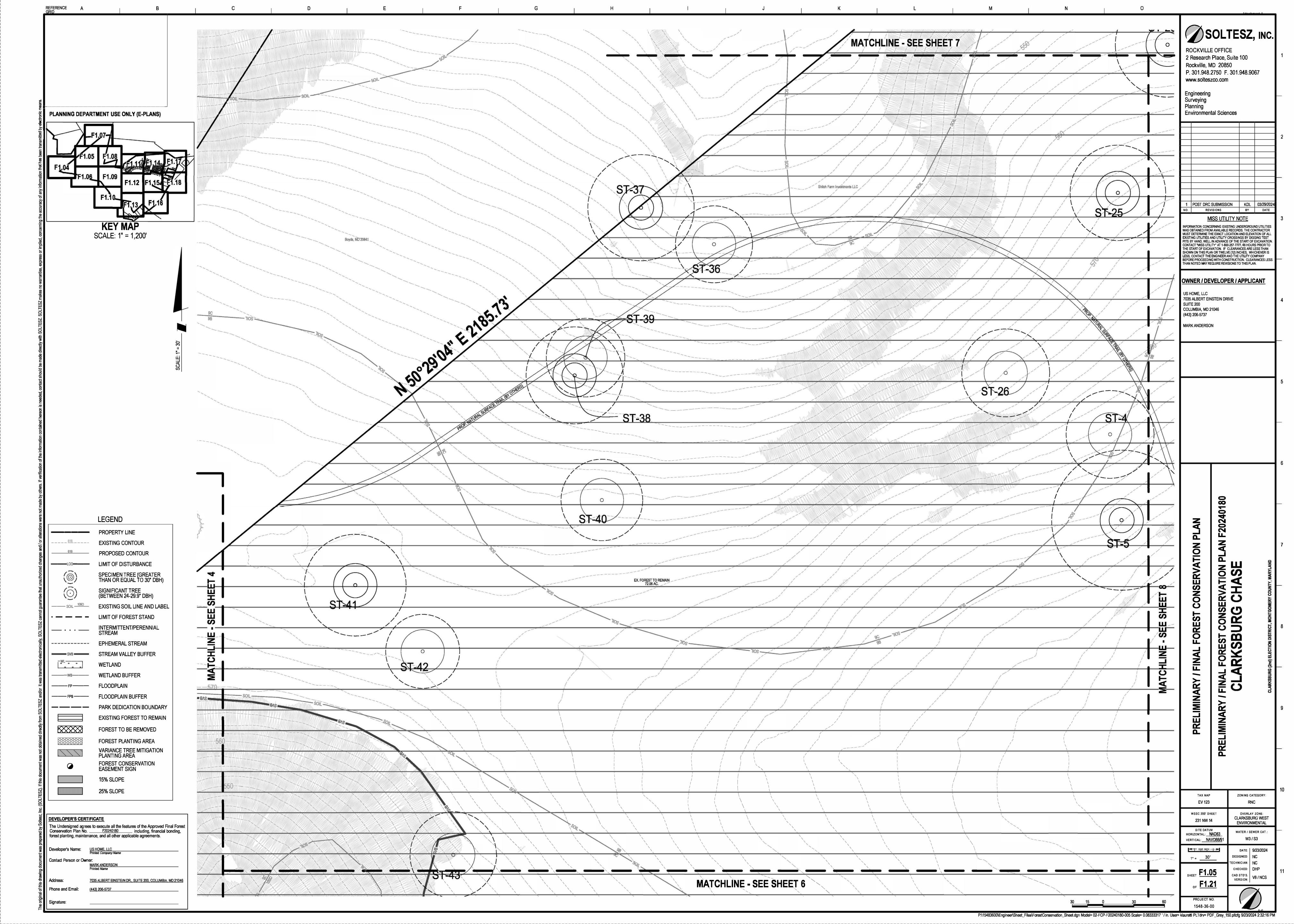


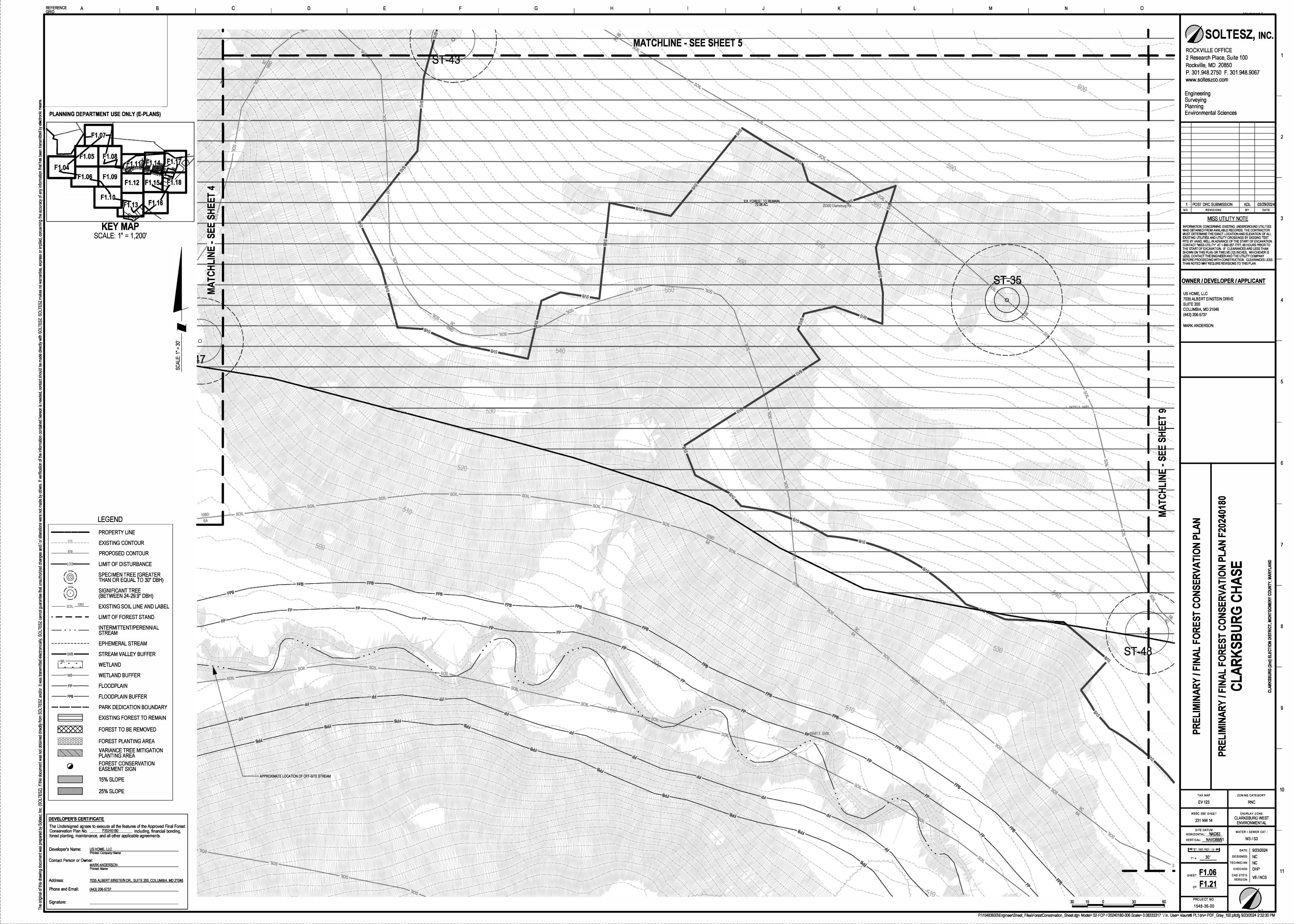
GENERAL_NOTES: **COVER SHEET**

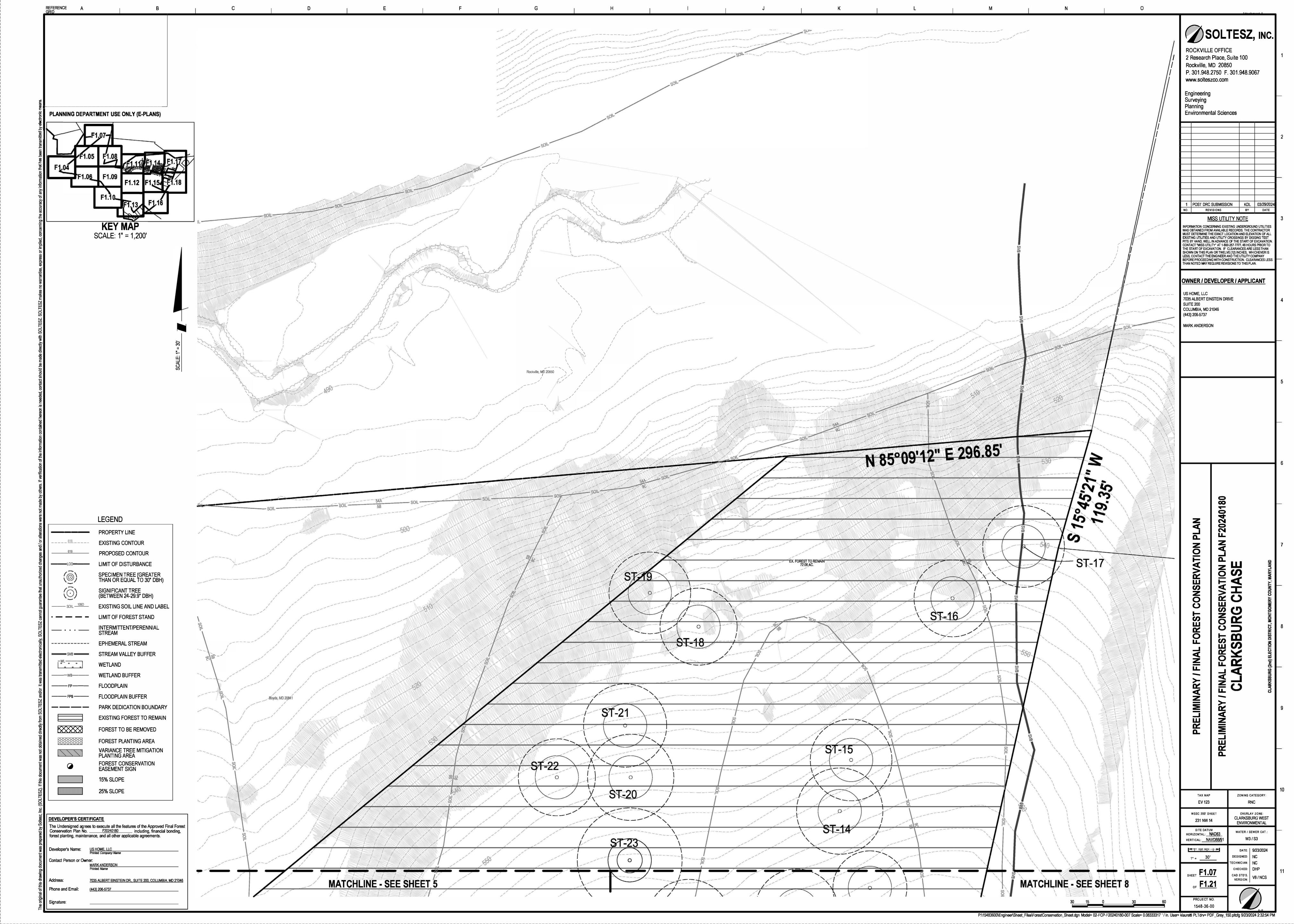
OVERALL PRELIMNARY / FINAL FOREST CONSERVATION PLAN PRELIMINARY / FINAL FOREST CONSERVATION PLAN SHEET F1.05 PRELIMINARY / FINAL FOREST CONSERVATION PLAN SHEET F1.06 PRELIMINARY / FINAL FOREST CONSERVATION PLAN PRELIMINARY / FINAL FOREST CONSERVATION PLAN SHEET F1.07 SHEET F1.08 PRELIMINARY / FINAL FOREST CONSERVATION PLAN SHEET F1.09 PRELIMINARY / FINAL FOREST CONSERVATION PLAN SHEET F1.10 PRELIMINARY / FINAL FOREST CONSERVATION PLAN SHEET F1.11 PRELIMINARY / FINAL FOREST CONSERVATION PLAN SHEET F1.12 PRELIMINARY / FINAL FOREST CONSERVATION PLAN SHEET F1.13 PRELIMINARY / FINAL FOREST CONSERVATION PLAN SHEET F1.14 PRELIMINARY / FINAL FOREST CONSERVATION PLAN SHEET F1.15 PRELIMINARY / FINAL FOREST CONSERVATION PLAN SHEET F1.16 PRELIMINARY / FINAL FOREST CONSERVATION PLAN SHEET F1.17 PRELIMINARY / FINAL FOREST CONSERVATION PLAN SHEET F1.18 PRELIMINARY / FINAL FOREST CONSERVATION PLAN SHEET F1.19 TREE INVENTORY SHEET F1.20 NOTES AND DETAILS SHEET F1.21 NOTES AND DETAILS

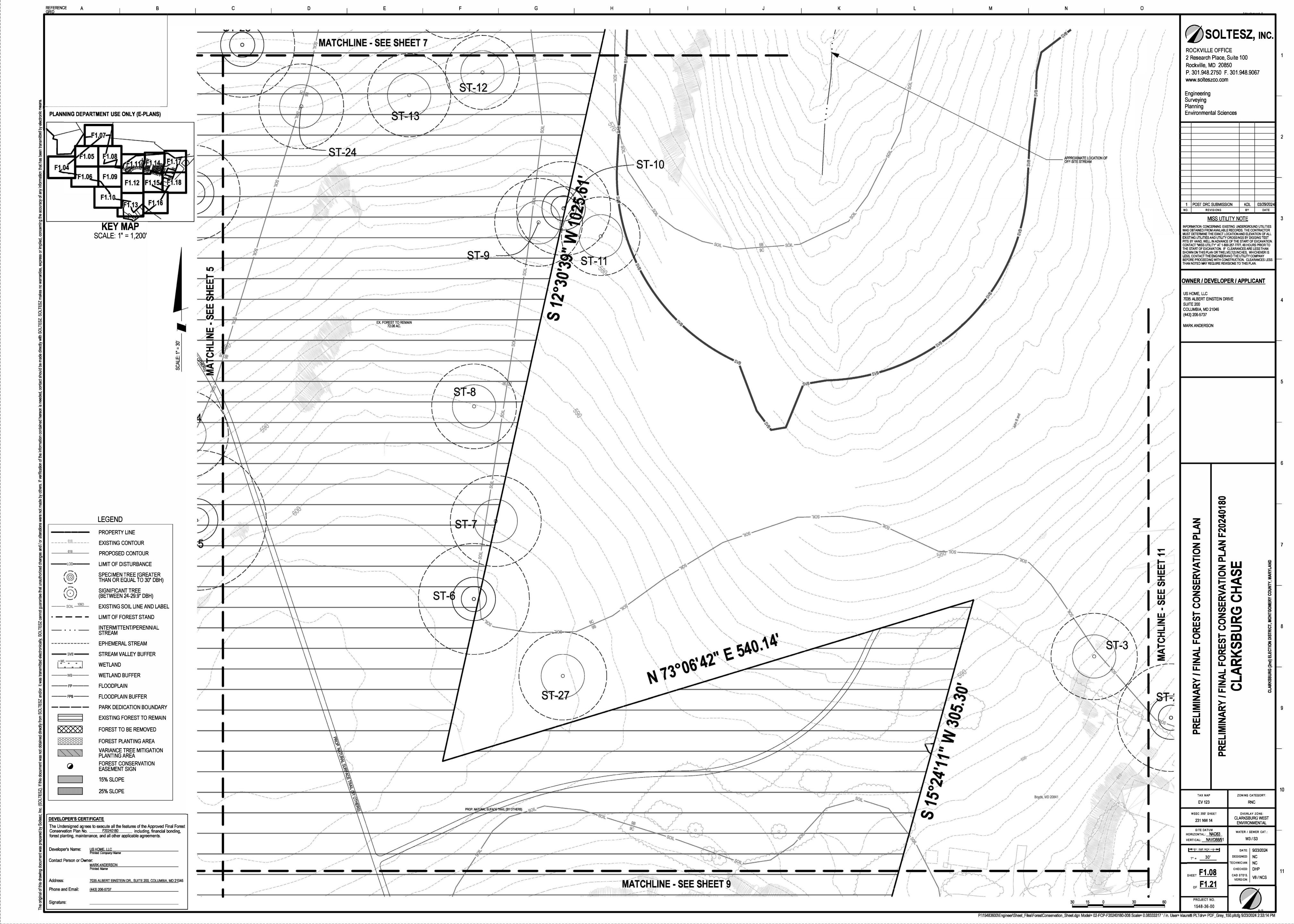


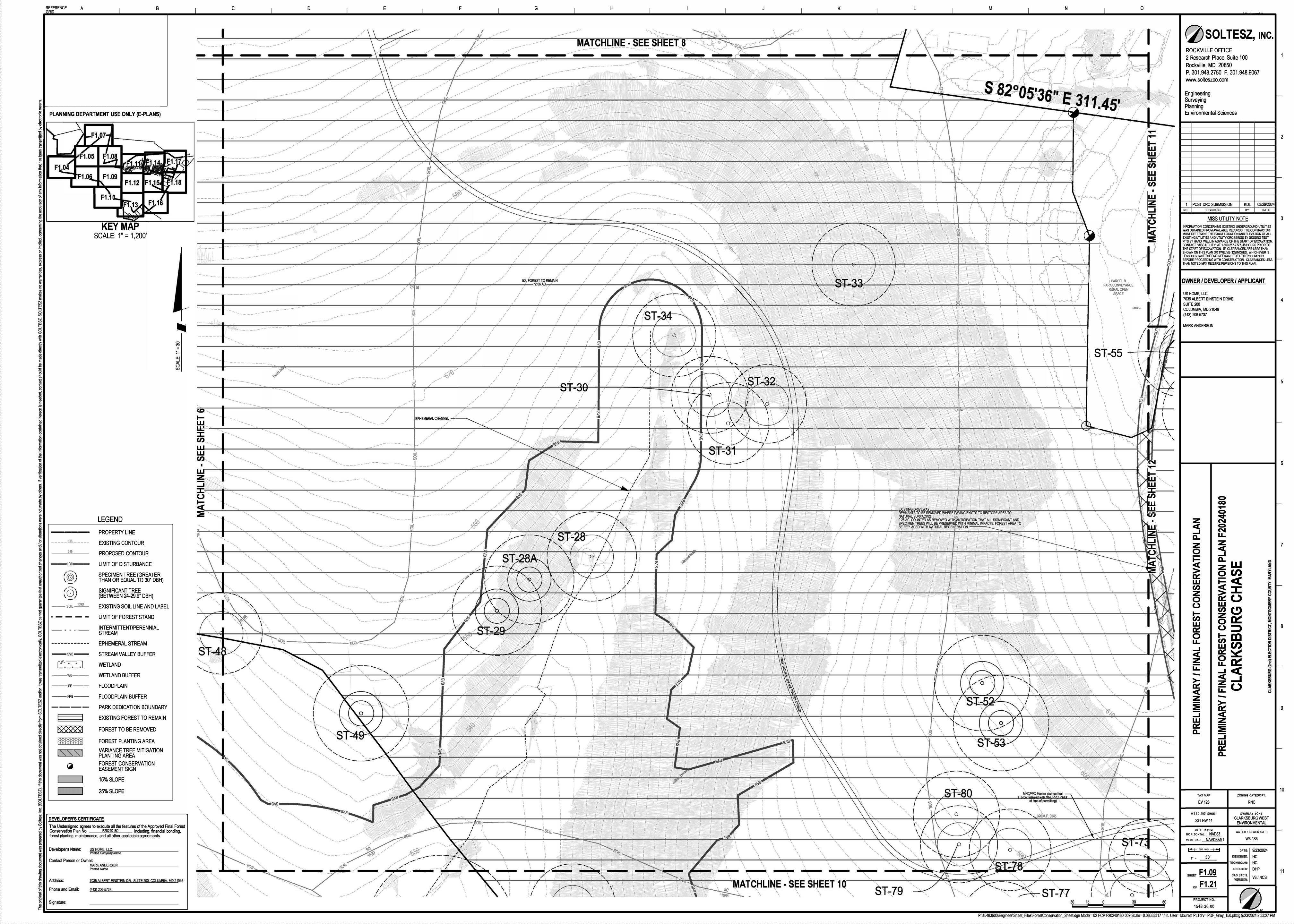


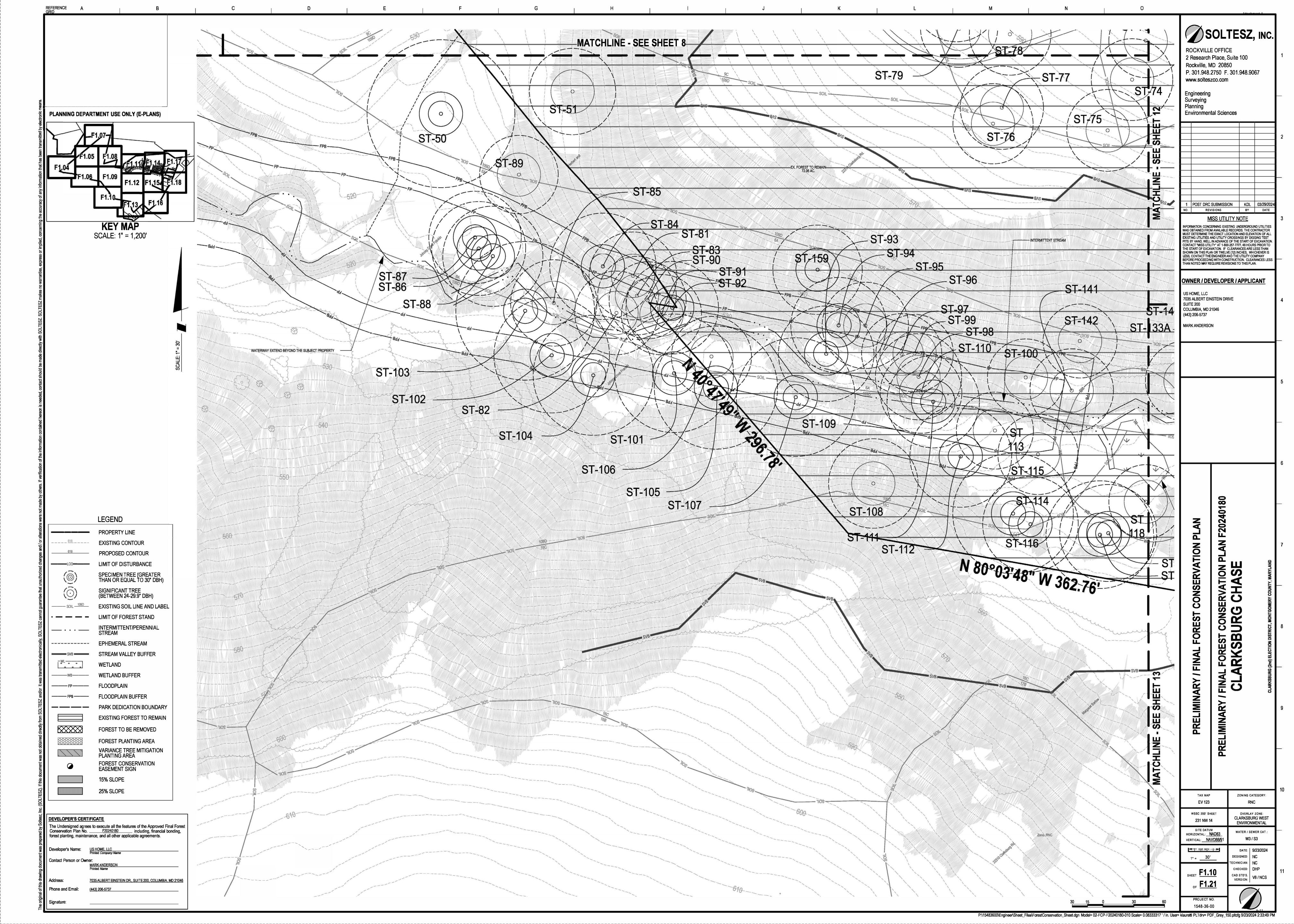


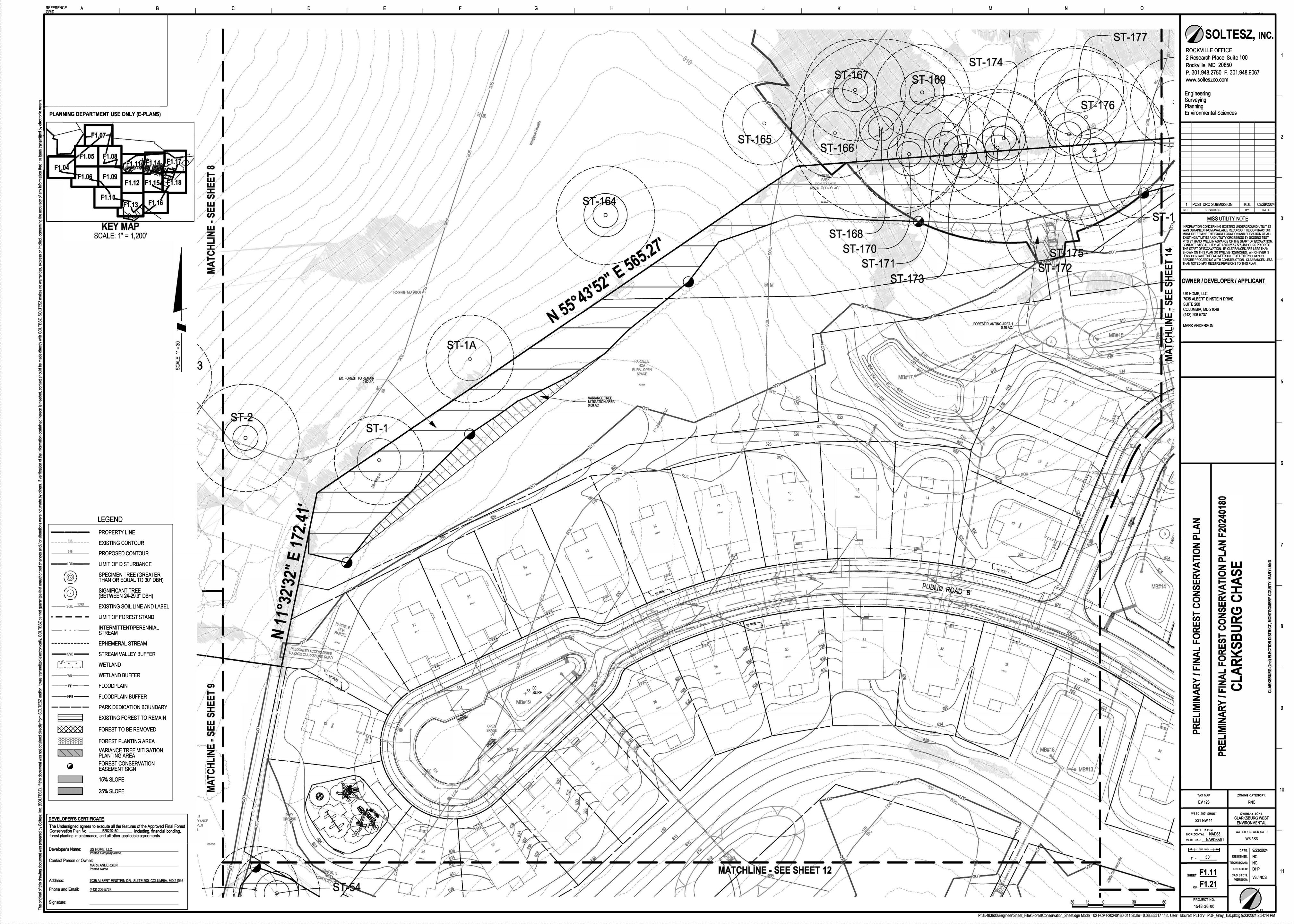


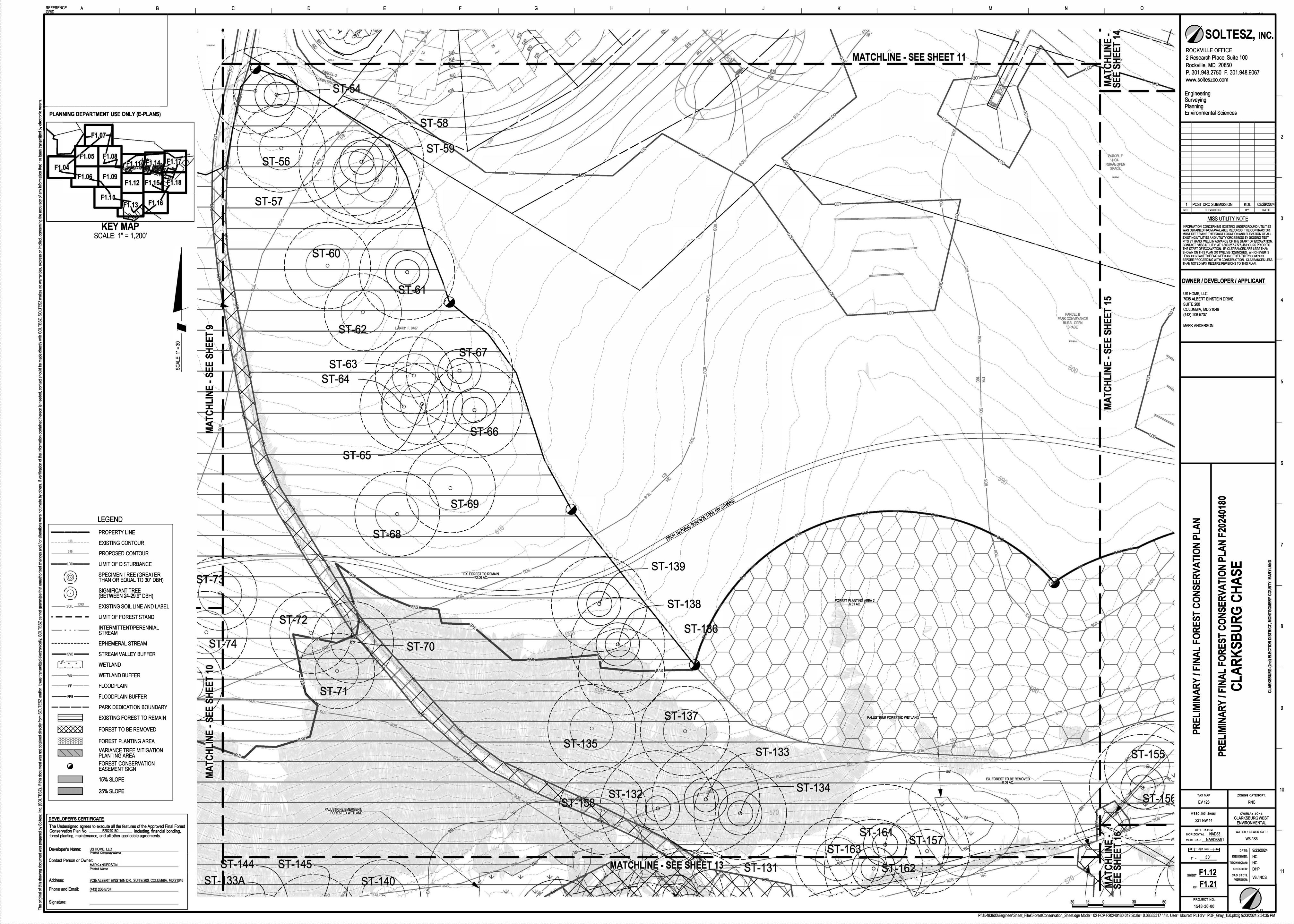


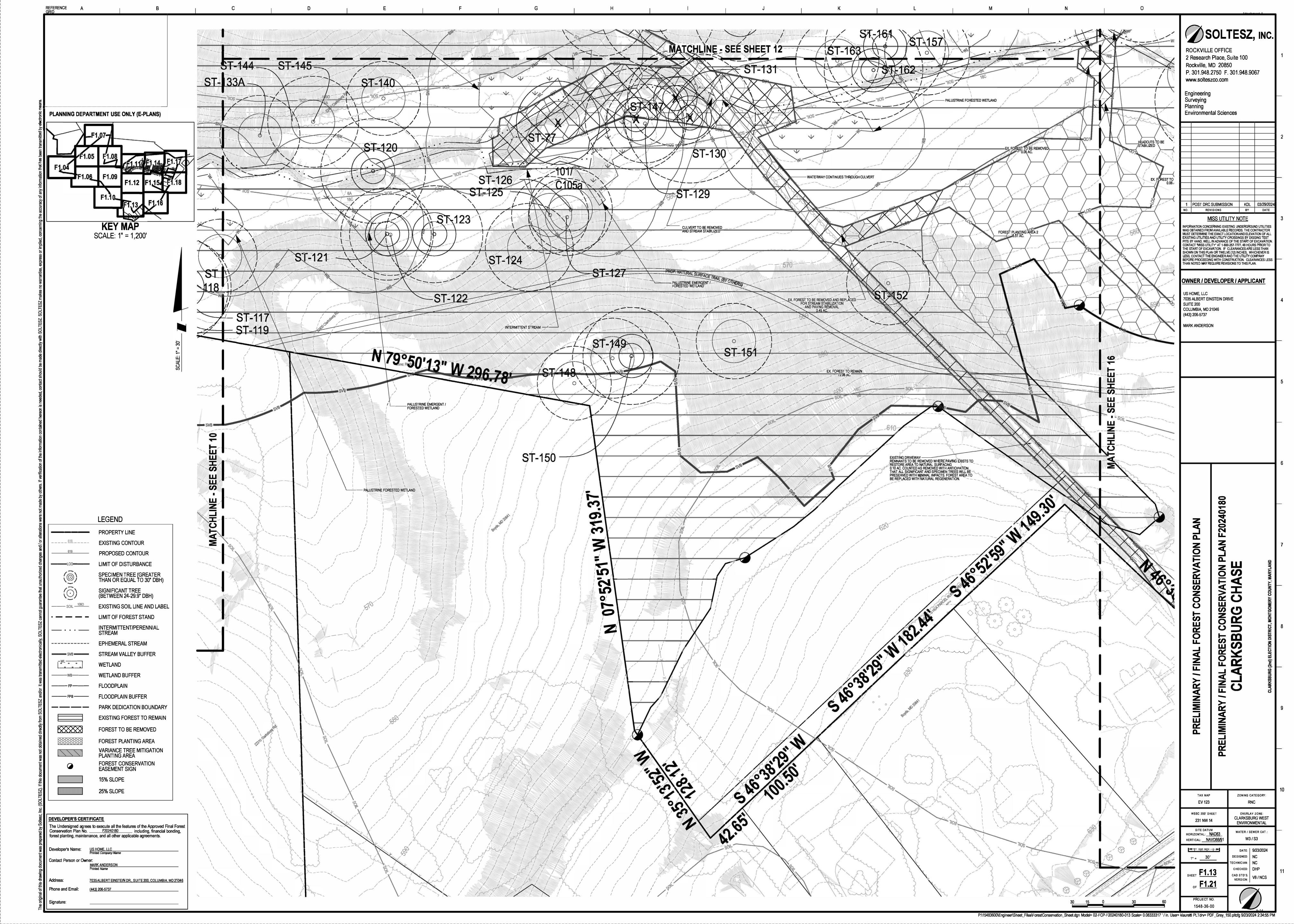


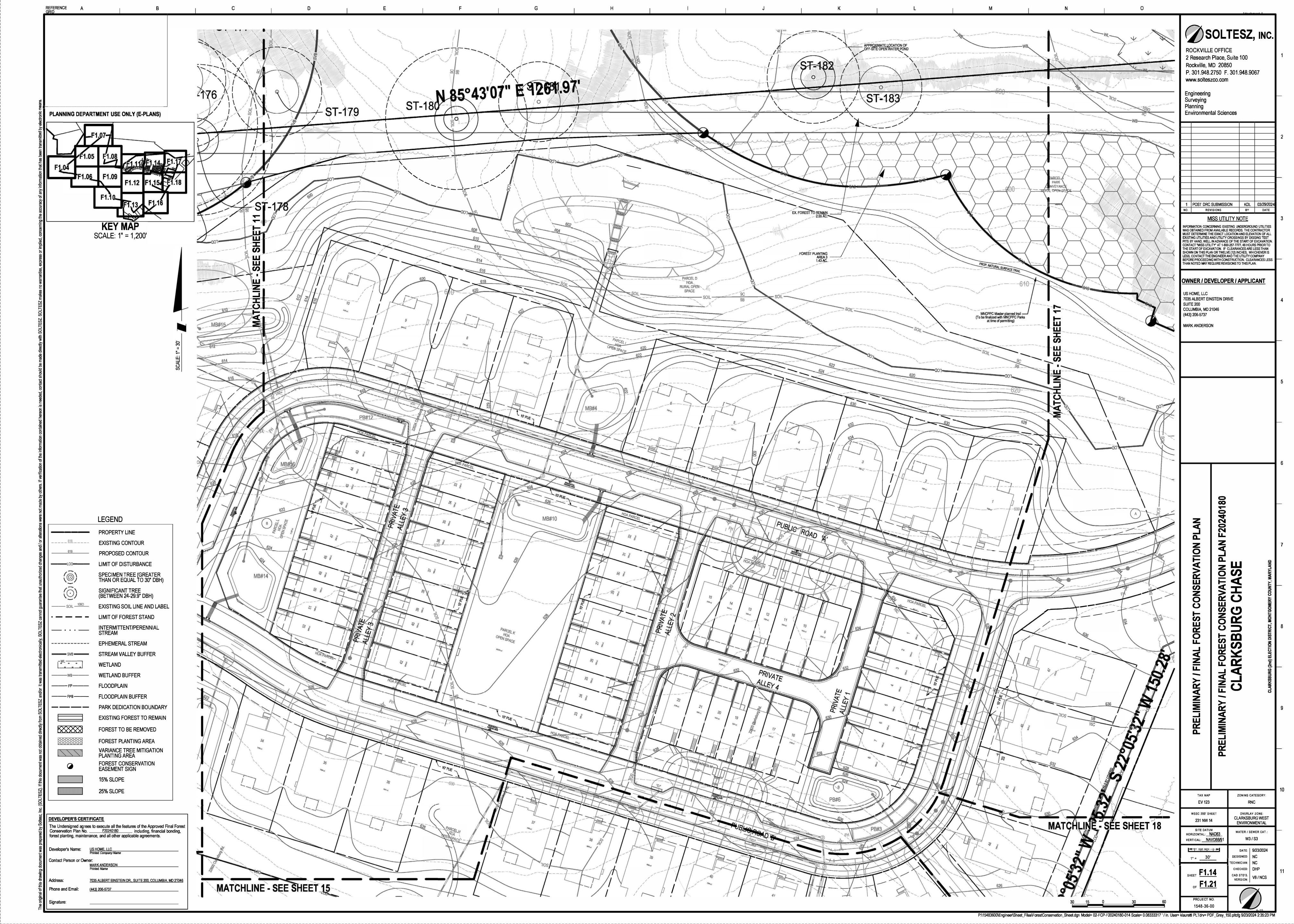


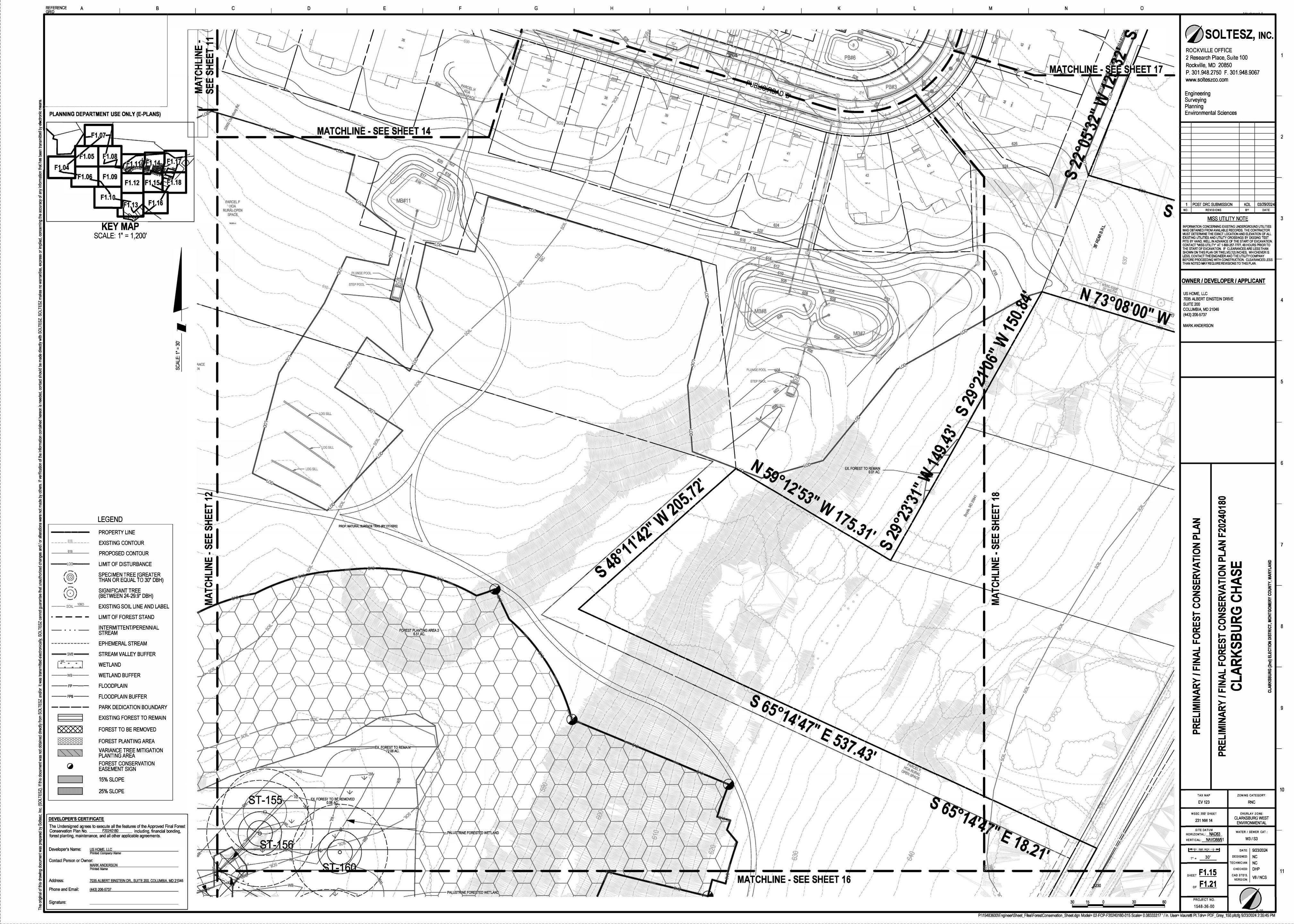


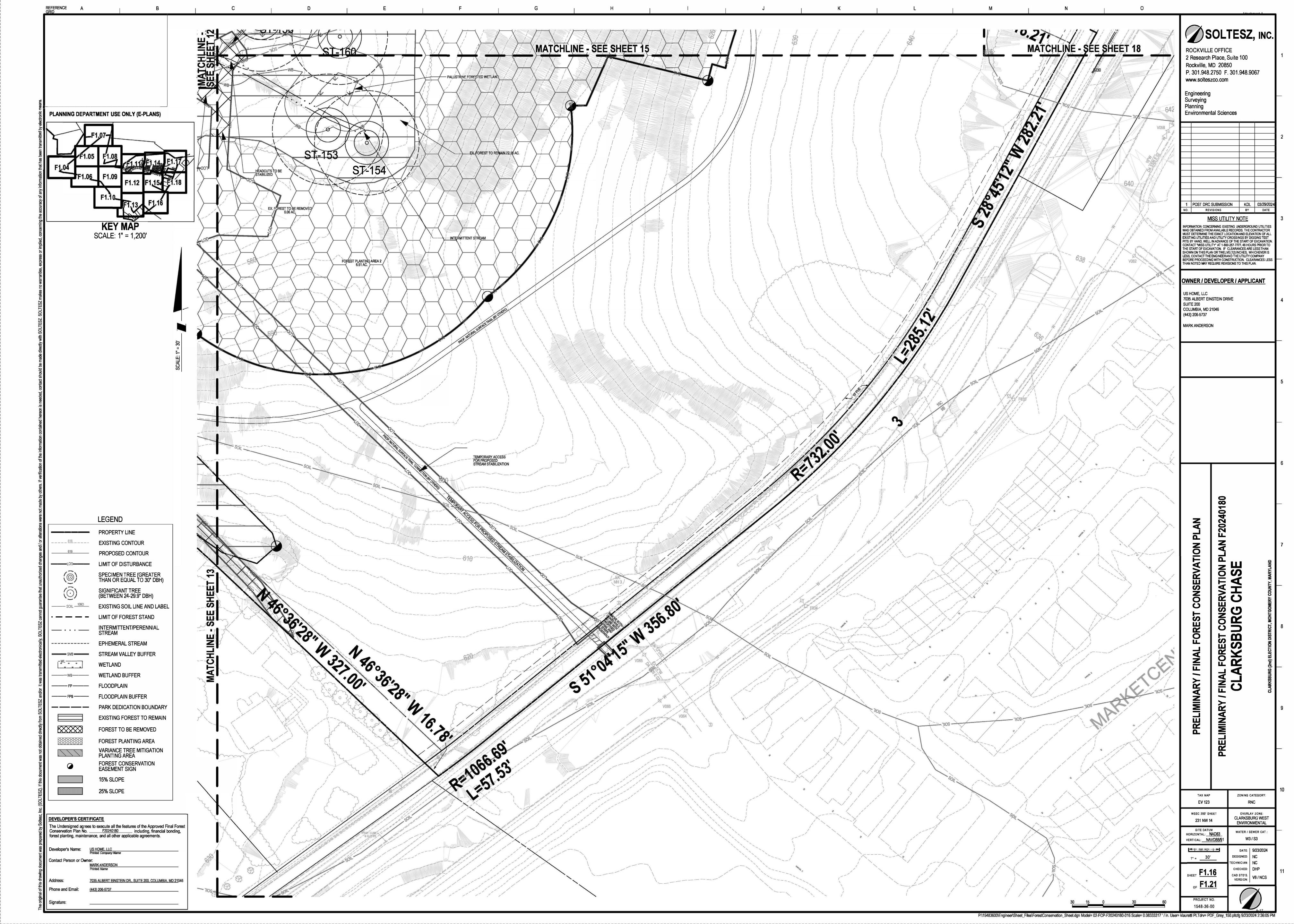


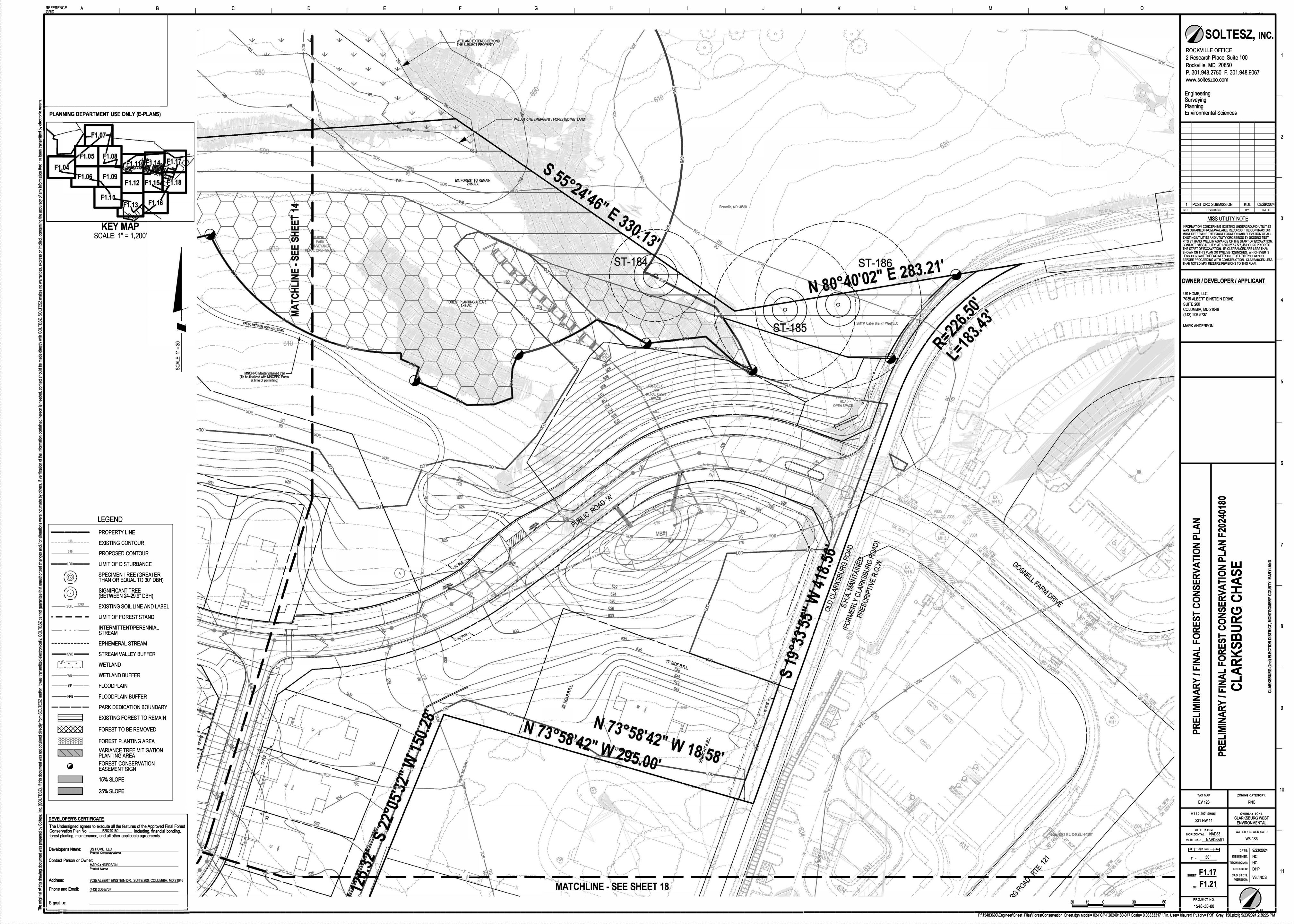


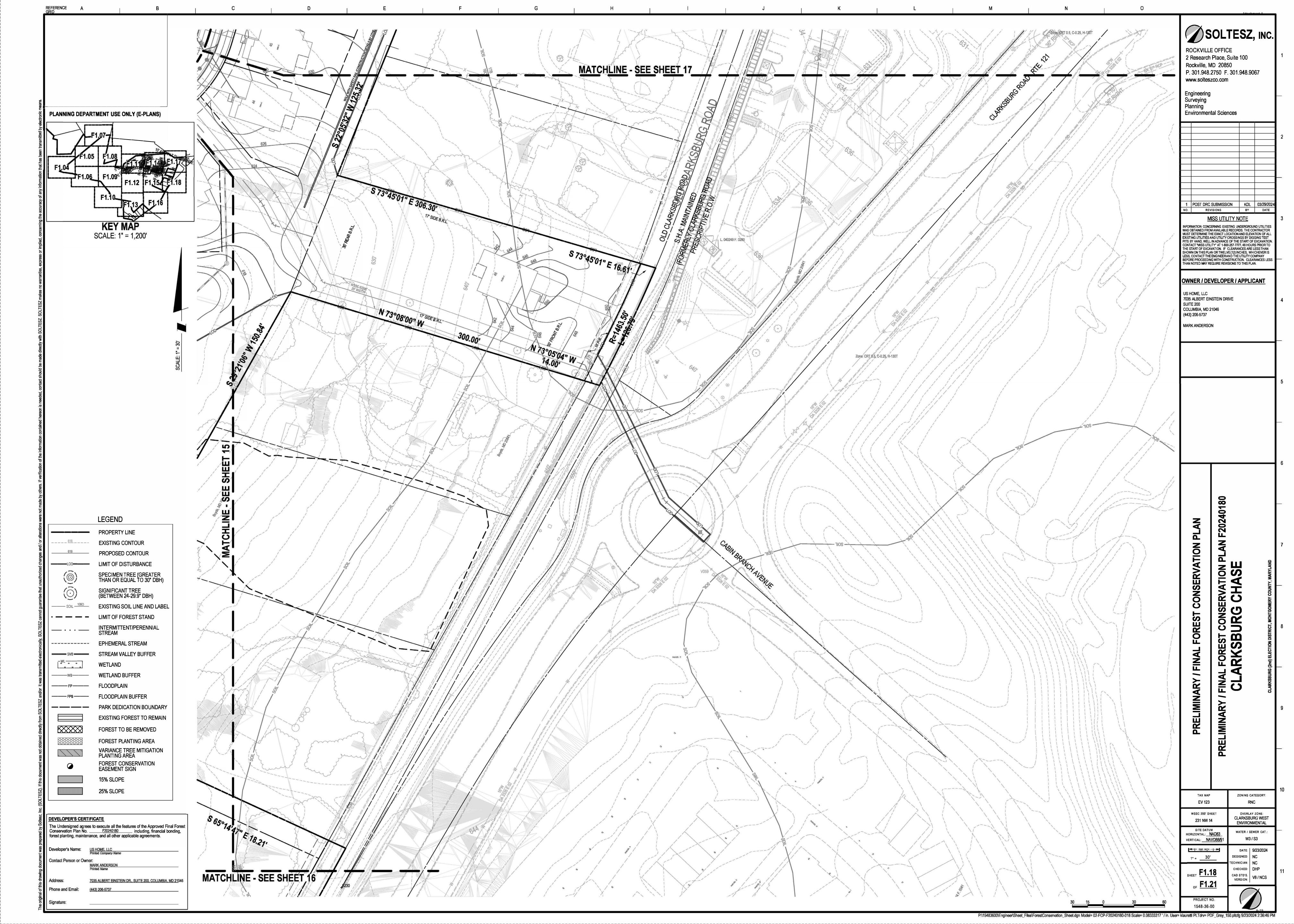












Significant and Specimen Tree Table CRZ |CRZ Impacted | % CRZ Offsite ' Scientific Name Common Name Condition | Save/Remove Tree # (inches) (sq ft) (sa ft) Impacted 5942 ST-1 29 Chestnut Oak Quercus montana 0 0% Fair Save 28.5 5739 Northern Red Oak Quercus rubra 0 0% Fair Save 28 ST-3 5539 Northern Red Oak uercus rubra Fair Save ST-4 28.5 5739 0 White Oak 0% Fair Save Quercus alba ST-7 29.5 6148 | White Oak 0 0% Good Save Quercus alba ST-8 27.5 5343 Red Oak Quercus rubra 0% Fair Save ST-9 28.5 5739 White Oak Quercus alba 0 0% Good Save ST-11 25.5 4594 |Chestunut Oak 0 0% Good Save Quercus montana ST-12 24 |Northern Red Oak 4069 0% Fair Save uercus rubra ST-13 5150 27 Chestnut Oak Good luercus montana 0% Save ST-14 28 5539 0 |Northern Red Oak 0% Fair Save Quercus rubra ST-15 26.5 4961 |Northern Red Oak uercus rubra 0 0% Good Save ST-16 25 4416 Northern Red Oak 0 0% Good uercus rubra Save ST-17 26.5 4961 Northern Red Oak Quercus rubra 0 0% Good Save ST-18 25 4416 |Northern Red Oak 0% Good Save uercus rubra ST-19 26.5 4961 |Red Oak 0 0% Good Save uercus rubra 28 ST-20 5539 0% |Northern Red Oak Quercus rubra Fair Save ST-21 27 5150 Pignut Hickory Carya glabra 0% Good Save ST-22 25 4416 |Pignut Hickory Carya glabra 0% Good Save ST-24 27.5 5343 0 Tuliptree iriodendron tulipfera 0% Good Save ST-26 Northern Red Oak 28.5 5739 Quercus rubra 0% Fair Save Quercus rubra 5739 28.5 |Northern Red Oak 0% Fair Save ST-28 25.5 4594 Save |White Oak Quercus alba 0% Poor ST-30 25 4416 Tuliptree iriodendron tulipfera 0% Good Save ST-31 26.5 4961 Northern Red Oak 0% Fair uercus rubra Save ST-32 25.5 4594 |Northern Red Oak 0% Fair Save Quercus rubra 27 ST-33 5150 | White Oak 0% Fair Quercus alba Save 27 5150 Northern Red Oak 0% Fair Quercus rubra Save ST-36 25 4416 Liriodendron tulipfera |Tuliptree 0% Fair Save ST-39 25.5 4594 |Tuliptree Liriodendron tulipfera 0% Good Save ST-40 Tuliptree 26.5 4961 0% Save Liriodendron tulipfera Good ST-42 24 4069 0% Tuliptree iriodendron tulipfera Good Save ST-43 28 5539 Northern Red Oak 0% Fair Quercus rubra Save ST-44 28 5539 |Tuliptree iriodendron tulipfera 0% Good Save ST-47 5539 28 |Red Maple 0% Fair Save Acer rubrum ST-48 26.5 4961 0 0% American Elm Good Save Ulmus americana ST-51 28 5539 |Northern Red Oak Quercus rubra 0% Fair Save ST-55 24.5 Good Northern Red Oak 4241 Save Quercus rubra ST-56 28.5 5739 Northern Red Oak 0% Fair Save Quercus rubra 27.5 5343 Northern Red Oak 0% Fair Save Quercus rubra ST-59 5539 28 Northern Red Oak Quercus rubra 0% Poor Save ST-60 28 5539 Northern Red Oak Save Quercus rubra 0% Poor ST-62 4416 25 Save |Northern Red Oak 0% Poor luercus rubra ST-63 24.5 4241 Northern Red Oak 0% Fair Save Quercus rubra ST-64 26.5 Liriodendron tulipfera 4961 0% Tuliptree Fair Save ST-65 26.5 4961 Northern Red Oak Quercus rubra 0% Poor Save ST-68 27.5 5343 Northern Red Oak Save Quercus rubra Poor ST-69 Northern Red Oak 5942 29 Quercus rubra 0 0% Fair Save 26.5 4961 ST-70 Chestnut Oak 0% Fair Save Quercus montana ST-71 Northern Red Oak 24.5 4241 0% Fair Quercus rubra Save ST-72 26.5 4961 Chestnut Oak Save Quercus montana 0% Poor Liriodendron tulipfera 24 ST-73 Tuliptree 4069 0 0% Fair Save ST-74 26.5 Tuliptree 4961 Liriodendron tulipfera 0% Fair Save ST-75 Liriodendron tulipfera | 26.5 4961 |Tuliptree Fair Save ST-76 4776 Tuliptree Liriodendron tulipfera 26 0 0% Fair Save ST-77 Liriodendron tulipfera 27 5150 5150 100% |Tuliptree Fair Remove ST-78 Liriodendron tulipfera 26.5 4961 |Tuliptree 0 0% Good Save ST-79 4416 Liriodendron tulipfera | 25 |Tuliptree 0% Fair Save ST-80 28 5539 |Tuliptree Liriodendron tulipfera 0% Good Save Liriodendron tulipfera | 28.5 ST-81 Tuliptree 5739 0% Good Save Liriodendron tulipfera 27 5150 ST-82 X |Tuliptree 0% Good Save Liriodendron tulipfera | 25.5 4594 ST-83 X |Tuliptree 0 0% Good Save 5539 ST-85 X Red Maple Acer rubrum 28 0 Save 0% Fair 25.5 ST-89 X White Ash 4594 Fraxinus americana 0% Poor Save ST-90 Liriodendron tulipfera 25 4416 Tuliptree 0 0% Good Save Liriodendron tulipfera 26 ST-91 4776 Tuliptree 0 0% Save Good 5539 ST-95 Liriodendron tulipfera 28 Save |Tuliptree 0 0% Fair ST-97 Liriodendron tulipfera 26 4776 |Tuliptree 0 0% Good Save Liriodendron tulipfera | 28 ST-98 5539 0 Tuliptree 0% Fair Save ST-99 Liriodendron tulipfera 25 4416 |Tuliptree Fair Save ST-100 25 4416 |Tuliptree Liriodendron tulipfera | 0 0% Fair Save Liriodendron tulipfera 26 ST-106 Tuliptree 4776 0 0% Fair Save 5942 ST-108 29 American Sycamore | Platanus occidentalis 0 Good Save 0% ST-110 26.5 Northern Red Oak 4961 Quercus rubra 0 0% Good Save ST-113 25 4416 American Sycamore | Platanus occidentalis 0 Save 0% Good ST-115 4776 26 American Sycamore | Platanus occidentalis 0% Good Save ST-118 24 4069 |Black Walnut Juglans nigra 0% Good Save Liriodendron tulipfera 26.5 ST-122 4961 0 Tuliptree 0% Good Save ST-123 28 5539 |Tuliptree Liriodendron tulipfera 0 0% Good Save ST-124 5739 Liriodendron tulipfera 28.5 Tuliptree Fair Save ST-125 Tuliptree Liriodendron tulipfera 24 4069 Good ST-126 5150 Tuliptree Liriodendron tulipfera 27 Good Save ST-127 4416 |Tuliptree Liriodendron tulipfera 25 0% Good Save ST-129 Tuliptree Liriodendron tulipfera | 25.5 4594 0% Good Save ST-133A Tuliptree 26 4776 Liriodendron tulipfera 0% Fair Save ST-135 5739 Chestnut Oak 28.5 Good Quercus montana 0% Save ST-136 Northern Red Oak 28 5539 0 0% Fair Save Quercus rubra ST-137 29 5942 Northern Red Oak 0% Quercus rubra Poor Save ST-140 24 4069 White Oak 0% Quercus alba Fair Save ST-141 Liriodendron tulipfera 27 5150 Tuliptree 0 0% Good Save ST-142 |Tuliptree Liriodendron tulipfera 24 4069 0 0% Good Save ST-145 Tuliptree Liriodendron tulipfera 29 5942 0% Good Save ST-146 Liriodendron tulipfera 27 5150 Tuliptree 0% Good Save ST-148 Liriodendron tulipfera 24 4069 |Tuliptree 0% Fair Save ST-149 Liriodendron tulipfera |Tuliptree 4776 Fair Save

	Tree #	Offsite	Common Name	Scientific Name	DBH (inches)	CRZ (sq ft)	CRZ Impacted (sq ft)	% CRZ Impacted	Condition	Save/Remov
	ST-151		Tuliptree	Liriodendron tulipfera	24.5	4241	0	0%	Good	Save
	ST-152		Northern Red Oak	Quercus rubra	27	5150	735	14%	Fair	Save
	ST-155		Red Maple	Acer rubrum	28	5539	0	0%	Poor	Save
	ST-157		Tuliptree	Liriodendron tulipfera	27.5	5343	0	0%	Good	Save
⊢	ST-158		White Oak	Quercus alba	28.5	5739	0	0%	Good	Save
SIGNIFICANT	ST-159		Chestnut Oak	Quercus montana	29	5942	0	0%	Good	Save
IFIC	ST-163		Tuliptree	Liriodendron tulipfera	27	5150	0	0%	Fair	Save
N D	ST-165	X	Northern Red Oak	Quercus rubra	27	5150	0	0%	Good	Save
S	ST-166 ST-176	X	Tuliptree	Liriodendron tulipfera	29	5942	0 0	0%	Good	Save
	ST-176	X	Tuliptree Tuliptree	Liriodendron tulipfera Liriodendron tulipfera	26.5 29	4961 5942	0	0% 0%	Fair Fair	Save Save
	ST-179	X	Tuliptree	Liriodendron tulipfera	29	5942	0	0%	Good	Save
	ST-181	X	Chestnut Oak	Quercus montana	26	4776	0	0%	Fair	Save
	ST-183		Black Cherry	Prunus serotina	26.5	4961	0	0%	Poor	Save
	ST-2	Х	•	Quercus rubra	35	8655	0	0%	Fair	Save
	ST-5		Northern Red Oak	Quercus rubra	45.5	14626	0	0%	Poor	Save
	ST-6		White Oak	Quercus alba	36	9156	0	0%	Fair	Save
	ST10	2	Northern Red Oak	Quercus rubra	30.5	6572	0	0%	Good	Save
	ST-23		Northern Red Oak	Quercus rubra	34	8167	0	0%	Fair	Save
	ST-25		Northern Red Oak	Quercus rubra	31	6789	0	0%	Good	Save
	ST-28A		Northern Red Oak	Quercus rubra	39	10746	0	0%	Good	Save
	ST-29		Northern Red Oak	Quercus rubra	30	6359	0	0%	Fair	Save
	ST-35		Red Maple	Acer rubrum	36	9156	0	0%	Fair	Save
	ST-37	,	Tuliptree	Liriodendron tulipfera	34.5	8409	0	0%	Good	Save
	ST-38		Tuliptree	Liriodendron tulipfera	31.5	7010 7694	0 0	0%	Good	Save
	ST-41 ST-45	X	Tuliptree Tuliptree	Liriodendron tulipfera Liriodendron tulipfera	33 46	7694 14950	0	0% 0%	Fair Poor	Save Save
	ST-45	X	Tuliptree	Liriodendron tulipfera	32	7235	0	0% 	Good	Save
	ST-49		Northern Red Oak	Quercus rubra	31	6789	0	0%	Fair	Save
	ST-50	Х	White Oak	Quercus alba	48	16278	0	0%	Fair	Save
	ST-52		Tuliptree	Liriodendron tulipfera	31	6789	0	0%	Good	Save
	ST-53		Tuliptree	Liriodendron tulipfera	31	6789	0	0%	Fair	Save
	ST-54	j.	Chestnut Oak	Quercus montana	30	6359	286	4%	Fair	Save
	ST-58		Northern Red Oak	Quercus rubra	40.5	11588	0	0%	Poor	Save
	ST-61		Northern Red Oak	Quercus rubra	31	6789	0	0%	Fair	Save
	ST-66		Tuliptree	Liriodendron tulipfera	31	6789	0	0%	Fair	Save
	ST-67			Fagus gradiflora	34.5	8409	0	0%	Fair	Save
	ST-84	X	White Oak	Quercus alba	34.5	8409	0	0%	Fair	Save
	ST-86	X	Tuliptree	Liriodendron tulipfera	30.5	6572	0	0%	Fair	Save
	ST-87	X	Tuliptree	Liriodendron tulipfera	30	6359 7462	0 0	0%	Fair	Save
	ST-88 ST-92	X	Tuliptree Tuliptree	Liriodendron tulipfera Liriodendron tulipfera	32.5	6359	0	0% 0%	Good	Save Save
	ST-92	_^	Tuliptree	Liriodendron tulipfera	31	6789	0	0% 	Good	Save
	ST-94		Tuliptree	Liriodendron tulipfera	31	6789	0	0%	Good	Save
	ST-96		Tuliptree	Liriodendron tulipfera	30	6359	0	0%	Good	Save
	ST-101	Х	· ·	Platanus occidentalis	38.5	10472	0	0%	Fair	Save
	ST-102	Х	•	Platanus occidentalis	37.5	9935	0	0%	Fair	Save
	ST-103	Х	Tuliptree	Liriodendron tulipfera	45	14307	0	0%	Fair	Save
	ST-104	Х	American Sycamore	Platanus occidentalis	39	10746	0	0%	Fair	Save
	ST-105	Х	Tuliptree	Liriodendron tulipfera	40	11304	0	0%	Fair	Save
	ST-107		Tuliptree	Liriodendron tulipfera	40.5	11588	0	0%	Fair	Save
	ST-109		Tuliptree	Liriodendron tulipfera	31	6789	0	0%	Fair	Save
JEN	ST-111		Tuliptree	Liriodendron tulipfera	30	6359	0	0%	Fair	Save
SPECIMEN	ST-112		•	Platanus occidentalis	33	7694 10746	0 0	0%	Fair	Save
SPE	ST-114 ST-116		•	Platanus occidentalis Platanus occidentalis	39 31	10746 6789	0	0% 0%	Fair Good	Save Save
	ST-116 ST-117		Tuliptree	Liriodendron tulipfera	31.5	7010	0	0% 	Fair	Save
	ST-117		Tuliptree	Liriodendron tulipfera	35	8655	0	0%	Good	Save
	ST-120		Tuliptree	Liriodendron tulipfera	34	8167	0	0%	Fair	Save
	ST-120A		Tuliptree	Liriodendron tulipfera	42.5	12761	0	0%	Good	Save
	ST-121			Liriodendron tulipfera	30	6359	0	0%	Fair	Save
	ST-128	,	Tuliptree	Liriodendron tulipfera	31.5	7010	0	0%	Good	Save
	ST-130		Chestnut Oak	Quercus montana	37.5	9935	9935	100%	Fair	Remove
	ST-131		Black Walnut	Juglans nigra	31	6789	6789	100%	Fair	Remove
	ST-132		Chestnut Oak	Quercus montana	37.5	9935	1216	12.2%	Fair	Save
	ST-133		Tuliptree	Liriodendron tulipfera	35	8655	0	0%	Poor	Save
	ST-134		Tuliptree	Liriodendron tulipfera	30	6359	0	0%	Fair	Save
	ST-138		Northern Red Oak	Quercus rubra	30.5	6572	0	0%	Poor	Save
	ST-139 ST-144		Northern Red Oak	Quercus rubra	31	6789 6359	0 0	0% 0%	Fair	Save
	ST-144 ST-147		Tuliptree Tuliptree	Liriodendron tulipfera Liriodendron tulipfera	33	7694	7694	0% 100%	Fair Good	Save Remove
	ST-150		Tuliptree	Liriodendron tulipfera	31.5	7010	0	0%	Fair	Save
	ST-153		Red Maple	Acer rubrum	36	9156	0	0%	Fair	Save
	ST-154		· · · · · · · · · · · · · · · · · · ·	Acer rubrum	34	8167	0	0%	Poor	Save
	ST-156		Red Maple	Acer rubrum	34.5	8409	635	8%	Fair	Save
	ST-160		Red Maple	Acer rubrum	31	6789	0	0%	Fair	Save
	ST-161		Tuliptree	Liriodendron tulipfera	39	10746	0	0%	Fair	Save
	ST-162		Tuliptree	Liriodendron tulipfera	32	7235	0	0%	Good	Save
	ST-164	Х	Pignut Hickory	Carya glabra	32	7235	0	0%	Fair	Save
	ST-167	Х	Tuliptree	Liriodendron tulipfera	33	7694	0	0%	Poor	Save
	ST-168	X	Tuliptree	Liriodendron tulipfera	58	23767	0	0%	Fair	Save
	ST-169	X	Tuliptree	Liriodendron tulipfera	31	6789	0	0%	Fair	Save
	ST-170	X	White Oak	Quercus alba	34.5	8409	0	0%	Good	Save
	ST-171	X	Tuliptree	Liriodendron tulipfera	31.5	7010	0	0%	Poor	Save
	ST-172	X	Tuliptree	Liriodendron tulipfera	38	10202	0	0%	Fair	Save
	ST-173	V	Tuliptree	Liriodendron tulipfera	41	11876	0	0%	Fair	Save
	ST-174 ST-175	X X	Tuliptree Tuliptree	Liriodendron tulipfera Liriodendron tulipfera	30 56	6359 22156	0 126	0% 1%	Good Fair	Save Save
	ST-178	_ ^	Red Maple	Acer rubrum	49	16963	66	0.4%	Fair Fair	Save
	ST-178	X	· '	Quercus rubra	49	14950	0	0.4%	Fair	Save
	ST-182	X	White Oak	Quercus alba	30	6359	0	0%	Fair	Save
	-		Pignut Hickory	Carya glabra	30	6359	0	0%	Fair	Save
	ST-184	1			1				1	+
	ST-184 ST-185		Tuliptree	Liriodendron tulipfera	46	14950	0	0%	Fair	Save

SOLTESZ, INC. ROCKVILLE OFFICE 2 Research Place, Suite 100 Rockville, MD 20850 P. 301.948.2750 F. 301.948.9067 www.solteszco.com Engineering Surveying Planning . **Environmental Sciences** I POST DRC SUBMISSION KDL 03/29/202 REVISIONS BY DATE MISS UTILITY NOTE NFORMATION CONCERNING EXISTING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF AL EXISTING UTILITIES AND UTILITY CROSSINGS BY DIGGING TES PITS BY HAND, WELL IN ADVANCE OF THE START OF EXCAVATION CONTACT "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF EXCAVATION. IF CLEARANCES ARE LESSTHAN OWN ON THIS PLAN OR TWELVE (12) INCHES. WHICHEVER IS ESS. CONTACT THE ENGINEER AND THE UTILITY COMPANY EFORE PROCEEDING WITH CONSTRUCTION. CLEARANCES LES HAN NOTED MAY REQUIRE REVISIONS TO THIS PLAN. **OWNER / DEVELOPER / APPLICANT** US HOME, LLC 7035 ALBERT EINSTEIN DRIVE SUITE 200 COLUMBIA, MD 21046 (443) 206-5737 MARK ANDERSON AL FOREST CONSERVARKSBURG CH TAX MAP ZONING CATEGORY: EV 123 WSSC 200' SHEET OVERLAY ZONE: **CLARKSBURG WEST** 231 NW 14 **ENVIRONMENTAL** WATER / SEWER CAT.: HORIZONTAL: NAD83 W3 / S3 VERTICAL: NAVD88/9

7035 ALBERT EINSTEIN DR., SUITE 200, COLUMBIA, MD 21046 Phone and Email: (443) 206-5737

The Undersigned agrees to execute all the features of the Approved Final Forest

Conservation Plan No. <u>F20240180</u> including, financial bonding,

forest planting, maintenance, and all other applicable agreements.

DEVELOPER'S CERTIFICATE

Contact Person or Owner:

Address:

Signature:

Developer's Name: <u>US HOME, LLC</u> Printed Company Name

REFERENCE

PLANNING DEPARTMENT USE ONLY (E-PLANS)

P:\15483600\Engineer\Sheet_Files\ForestConservation_Sheet.dgn Model= 02-FCP-F20240180-019 Scale= 0.083333333' / in. User= klauretti PLTdrv= SPDF_Grey_150.pltcfg 10/8/2024 2:24:06 PM

DATE: 10/8/2024

DESIGNED: NC

CAD STD'S. V8 / NCS

VERSION:

GENERAL CONDITIONS II. STANDARDS representative species The plant material must be selected from nurseries that have been inspected by state or federal agencies. Any certificates required must be provided to owner or representative upon delivery of III SUBSTITUTIONS A. If a plant is found not to be suitable or available, the contractor is to notify the landscape architect The owner or landscape architect is then required to select a reasonable alternate or to inform all landscape contractors of the availability of the original plant. If a substitute is selected, it must be of the same size, value and quality as the original plant. PLANNING DEPARTMENT USE ONLY (E-PLANS) Substitutions to be made with written approval of M-NCPPC. IV. UTILITIES The landscape contractor shall notify utility companies prior to construction and call "Miss Utility" at 1(800)257-7777, to locate main utility lines. B. If there is a conflict with the utilities and the planting, the landscape contractor shall notify the landscape architect or owner immediately. Any cost of relocating caused by the contractors' failure to notify shall be borne by the contractor Plants shall not be planted in situations that show obvious poor drainage. Such situations shall be brought to the attention of the landscape architect or owner and, if deemed necessary, plants shall be relocated or the contract shall be adjusted to provide drainage correction at a negotiated cost. A. During planting, all areas shall be kept clean and neat, and all reasonable precautions shall be taken to avoid darnage to existing plants, turif and structures. Upon completion, all debris and waste material resulting from planting operations shall be removed from the project and the area cleaned up. C. Any damaged areas shall be restored to their original condition at the cost of the contractor. I. PLANT MATERIAL I. STANDARDS A. Bare roof Bare rooted shrubs shall be dug with adequate fibrous roots. Roots shall be protected during handling and transit and planted to guard against drying out and damage. If not planted soon after arrival, material must be heeled in and maintained. Balled and Burtapped (B&B) Balled and Burlapped plants shall be dug with firm natural balls of earth. Ball sizes shall be in accordance with ANLA specifications. Container grown stock shall have been grown in a container long enough for the root system to have developed sufficiently to hold soil in container together. D. All plant material shall be nursery grown unless otherwise specified. Pruning shall be done before planting or during the planting operation. All plant material to be transported in covered container. Locally available material may be covered with a burlap or similar cover to keep from drying out, provided the transporting vehicle maintains a maximum of 35 mph. Anti-desiccants shall be applied on all materials dug while in foliage. Container stock may replace B&B as long as all other criteria are met. Same plant material for location near each other shall be similar in appearance. Hedge material will be similar enough in size and shape, etc. to create a uniform hedge II. MATERIALS A. ANTI-TRANSPIRANTS Anti-transpirants shall be an emulsifiable concentrate used to retard excess water loss without harming normal transpiration BACK FILL MIXTURES Back fill mixture shall be 1/3 existing soil mixed with 1/3 organic material (or peat) and 1/3 2. If any other additives are found to be needed at the time of planting, it shall be added only with the approval of the landscape contractor, landscape architect and owner or owner's 3. Fertilizer is to be added depending on the size of the plant and the manufacturer's . Trees - Use tree fertilizer as required by particular species Ground Cover, Vines & Herbaceous Plants - Use tree fertilizer as required by If used, top soil shall be sandy loam and uniform in color and composition. It shall be free of stones, roots, lumps, plants and other debris over 1 1/2" It shall not contain toxic substances harmful to plant growth. Top soil shall have a pH range of 5.0 to 7.0 and the organic matter shall be a minimum content of 1.0% D ORGANIC MATTER Organic Matter used in back fill shall be peat or other material approved by the landscape architect or owner E. PEAT MOSS Type I - sphagnum peat moss finely divided with a pH of 4.0 to 5.0. . This a composted leaf material to be used with the approval of landscape architect. specified or by approval of landscape architect. 1. This is agricultural grade limestone containing total carbonates of 85% with a minimum of 30% magnesium carbonates. 1. Fertilizer shall be granular, packet or pellet with 35% to 85% of the total nitrogen in a slowly available form. To be applied by manufacturers methods 2. Fertilizer shall be a complete fertilizer with a minimum analysis as required by soil test and J. TRACE ELEMENTS These slow release materials containing zinc (Zn), molybdenum (Mo), iron (Fe), copper (Cu), boron (B), and magnesium (Mg). To be applied as per manufacturer's directions as deemed necessary by soil test. A. Cut rope or wire on ball of tree and pull burlap back to the edge of the root ball remove all plastic wraps and twine. Roll burlap 1/3 of the way down the root ball. Backfill tree pit with a soil mixture stated in the specifications Mix soil amendments in the mixture either prior to filling pit or as pit is being filled Make sure plants remain straight during backfilling procedure Backfill sides of tree pit halfway with soil mixture and tamp as pit is being filled Finish backfilling sides of tree pit and tamp firmly G. NEVER COVER TOP OF TREE BALL. WITH SOIL. Top of root ball should be 1/4 the root ball height above the tree pit. H. Form a 4" saucer above existing grade and around the outer rim of the tree pit. Mulch top of root ball and saucer within 48 hours to a minimum depth of 2" and not exceed 3". Water thoroughly the interior of the tree saucer until it is filled. EVEN IF IT IS RAINING. Provide enough water to ensure saturation of the root ball. Prune out any dead, conflicting or broken branches. M. In extremely hot weather, reduce foliage surface by pruning or stripping of foliage. N. Remove all tags, labels, strings, etc. from the tree. Choose the correct size and number of stakes and size of hose and wire according to the Tree Support Detail and plant requirements. Staking shall be completed within 48 hours of planting the B. Space stakes evenly and vertically on the outside of the tree ball, driven firmly into the ground (stakes can be slightly angled away from the tree). NOTE: Never drive a stake through the tree hall as it will damage the tree's root system. Stakes to be 2/3 above ground, 1/3 below. Cut pieces of reinforced hose long enough to loop around the trunk of the tree. Place the hose around the trunk at the height required to provide optimum support. Then run the wire through the hose and pull both ends horizontally beyond the stake by 2'. Cut the wire to sufficient length and then twist the wire at the rubber hose to keep it in place Run both ends of wire together around the stake twice and then twist wire back onto itself to secure it. Cut off excess wire and stake. The above procedures are to follow for each stake. Stakes shall be 2"x2" hardwood, reasonably free of knots to be long enough for 1/3rd to be Wire shall be 12 or 14 gauge galvanized steel or acceptable equal, depending on the size of Cable shall be 1/4" or 3/16" galvanized steel, depending on size of tree. Clamps shall be galvanized steel or zinc and large enough to hold wires or wires used. 1. Hose shall be corded rubber, uniform in color and either 3/4" to 1" in diarneter, depending on the size of the tree.

The Undersigned agrees to execute all the features of the Approved Final Forest Conservation Plan No. F20240180 including, financial bonding, forest planting, maintenance, and all other applicable agreements. 7035 ALBERT EINSTEIN DR., SUITE 200, COLUMBIA, MD 21046

DEVELOPER'S CERTIFICATE

Developer's Name:

Phone and Email:

Address:

Contact Person or Owner

M. MULCH . Material shall be double shredded composted hardwood bark, such a s "silvabark" or A. The landscape contractor shall provide all materials, labor and equipment to complete all Material shall be mulching grade, uniform in size and free of foreign or harmful matter. landscape work as shown on the plans, plant list and specifications.

Shrubs - Use tree fertilizer as required by particular species

Total number of plants shall be as drawn on the landscape plan. If this total differs from the plant A. Plants may be subject to inspection and approval by the owner or owner's representative at the schedule, the landscape contractor is to notify the landscape architect before the bid date. place of growth for conformity to specification requirements as to quality, size and variety. This will A. All plant material will conform to the current issue of the American Standard for Nursery Stock Plants damaged in handling or transportation may be rejected by the owner or owner's published by the American Nursery and Landscape Association (ANLA) conform in general to

II. PLANTING PROCEDURES FOR TREES

I. PREPARING TREE PIT The tree pit must be a minimum width of 2 times the size of the root ball at the top The walls of free pit shall be dug so that they are scarified.

The tree pit shall be deep enough to allow 1/3 of the root ball to be above the existing grade. Any loose soil at the bottom of the pit shall be tamped by hand or with the bucket of the backhoe Dig pit 6" deeper than depth required for root ball. Fill bottom of pit with 6" compacted soil mix adjusting depth to ensure top of root ball is 1/4 above the surface of the soil. II. PLACING TREE IN THE PIT A. Place the tree in the pit by lifting and carrying the tree by its ball (never lift by branches or trunk)

to lift and move plant material and to insure it is not dropped. B. Set the tree straight and in the center of the pit with the most desirable side of the tree facing toward the prominent view (sidewalk, building, street, etc.). Any dropped material may be rejected by owner or representative. Any dropped material should be flagged with red flagging on its trunk and noted on a plan. Should plant die, it will be replaced

and then lowering it into the pit. Contractor is responsible for providing any machinery necessary

III. PLANTING PROCEDURES FOR SHRUBS

by the contractor at no cost to the owner

I. PREPARING SHRUB PIT A. For a single shrub, the pit shall be dug large enough for the proper setting of the root ball (4" wider than root ball at base. 2 to 3 times the width of the root ball at the top) B. For a shrub mass planting, the entire bed area shall be rototilled 3 to 4 " deep. Each shrub pit shall be excavated for the proper setting of the root ball. For a hedge, a trench shall be dug large enough for the proper setting of all of the plants root

balls (the trench shall be 2 times wider than the root balls). D. Form a compacted base in the bottom of the hole to adjust plant height to proper location. Compact sufficiently to prevent settling II. PLANTING SINGLE SHRUBS AND BACKFILLING PIT Remove all plastic wraps, twine, containers, etc.

Place the plant in the pit by lifting and carrying in by the root ball Set the plant straight and in the center of the pit with the most desirable side facing toward the prominent Use a soil mixture as specified. Make sure the plant remains straight during backfilling procedure.

Backfill side of the pit halfway with soil mixture and tamp as the pit is being filled. Pull the burlap back 1/3 the way down the root ball. Make sure burlap does not become exposed above Finish backfilling the sides of the shrub pit and tamp firmly. Form a saucer above the existing grade and around the planting pit

Mulch top of root ball and saucer a minimum of 2" depth and not to exceed 3" in depth. Water thoroughly, the interior of the shrub saucer to insure root ball is saturated. EVEN IF IT IS Prune out any dead, conflicting or broken branches.

M. Remove all tags, labels, strings, etc. from the plant. III. PLANTING A SHRUB MASS Follow the same procedure as for a single shrub. (Section II A-I) Edge and rake the entire planting bed to obtain uniform surface Mulch the entire planting bed a minimum of 2" depth and not to exceed 3" depth. Water the entire planting bed thoroughly. EVEN IF IT IS RAINING. To saturate top 2" of soil.

Remove all tags, labels, strings IV. PLANTING PROCEDURES FOR GROUND COVER

Prune out any dead, conflicting or broken branches.

I. PREPARING GROUNDCOVER BED A. The ground cover bed shall be loosened prior to planting by one of the following methods: rototilling, back-hoeing and rototilling or by picking (generally done or small areas or on slopes). Soil shall be loosened to a depth of 4" to 6"

B. Soil additives for the ground cover bed shall be peat and topsoil, (2" deep) after the soil has been loosened and additives then worked into the bed by one of the following methods: rototilling, backnoeing and rototilling or by picking (in which soil additives are spread by hand into the individual plant pockets and worked into the soil by pick). Fertilize in planting hole or use water soluble fertilizer at base of plants after planting.

D. Mulch the entire ground cover bed to minimum 1" depth and not to exceed 2" in depth II. PLANTING GROUND COVER A. The ground cover planting holes shall be dug through the mulch with one of the following: hand trowel, shovel, bulb planter or hoe. Before planting, biodegradable pots shall be crushed and the top edges broken down below the surface. Non-biodegradable pots shall be removed. Unwrap any bound roots, do not break root ball.

C. The ground cover (either potted or bare root) shall be planted: So that the roots of the plant are surrounded by soil below the mulch: potted plants being set so that the top of the soil in the pot is even with the existing grade, and bare root plants being covered up to the crown of the plant or soil level.

. At an equal distance apart (plans and specifications specify the "on center" (o.c.) distance for the ground cover). See spacing guide.

I. TEMPORARY SEEDING

A. Vegetation - Annual Ryegrass or Pearl Millet shall be used to provide cover on disturbed areas for up to 12 months. For longer duration of vegetation cover, permanent seeding is required. Seed Mixtures - Temporary Seeding Preferred: Annual Ryegrass - cool season; 40 lbs /acre. (1/2 that amount for over seeding) Pearl

Millet - warm season, 20lbs/acre. (These are preferred because existing and proposed native grasses and wildflowers may not compete well with certain grass species) B. If seed mixtures used are other than those preferred, they must be from table B.1 of "Standards and Specifications for Soil Erosion and Sediment Control" by the Maryland Department of Environmental Protection. Temporary plant material must be removed prior to seeding of other material.

For sites having soil tests performed, the seeding and amendment rates shown in table B.1 of "Standards and Specifications for Soil Erosion and Sediment Control" shall be deleted and the rates recommended by the testing agency shall be written in. Soil tests are not required for temporary

II. PERMANENT SEEDING A. Seeding grass and legumes to establish ground cover for a minimum period of one year on all disturbed areas generally receiving low maintenance. Seed mixtures 1. Seed mixtures not from table B.3 of "Standard and Specifications for Soil Erosion and Sediment Control* by the Maryland department of Environmental Protection, must be approved by landscape architect. Additional planting specifications for exceptional sites such as shore lines, stream banks

or dunes, or for special purposes such as wildlife or aesthetic treatment may be found in USDA-SCS Technical Field Office Guide. Section 342 - Critical Area Planting. For sites having disturbed areas over 5 acres, the rates shown in table B.3 of "Standards and Specification for Soil Erosion and Sediment Control" shall be deleted and the rates recommended by the soil testing agency shall be written in. 3. For areas receiving low maintenance, apply urea form fertilizer (46-0-0) at 3 1/2 lbs/1000 sq. ft.

(150 lbs./acre). The above recommended soil amendments and hose stated in the soil test to be performed at the time of seeding, or as recommended by state agency and manufacturers Do not fertilize area to be seeded around storm water management facilities.

5. Contractor to provide a final product of grass crop creating a lawn of uniform color and texture after

VI. SOIL TESTING

 Contractor to perform soil test as per accepted methods by the local agricultural extension service. Samples to be tested by reputable lab

replaced at the cost of the contractor after corrections have been made.

3. Contractor will be held responsible for notifying owner of any problems or deficits determined by the

4. Corrections will be discussed and cost negotiated with owner. 5. Plant failure based on soil deficits or problems due to failure of contractor to take samples, will be

Sequence of Events for Properties Required to Comply With Forest Conservation Plans, Exemptions from Submitting Forest Conservation Plans, and Tree Save Plans

The property owner is responsible for ensuring all tree protection measures are performed in accordance with the approved final forest conservation plan or tree save plan, and as modified in the field by a Planning Department Forest Conservation Inspector. The measures must meet or exceed the most recent standards published by the American National Standards Institute (ANSI

Pre-Construction

1. An on-site pre-construction meeting is required after the limits of disturbance have been staked and flagged and before any land disturbance.

2. The property owner must arrange for the meeting and following people should must participate at the pre-construction meeting: the property owner or their representative, construction superintendent, International Society of Arboriculture (ISA) certified arborist/Maryland Licensed Tree Expert (representing owner) that will implement the tree protection measures, The Planning Department Forest Conservation Inspector, and Montgomery County Department of Permitting Services (DPS) Sediment Control Inspector. The purpose of this meeting is verify the limits of disturbance and discuss specific tree protection and tree care measures shown on the approved plan. No land disturbance shall begin before tree protection and stress-reduction measures have been implemented and approved by the Planning Department's Forest Conservation Inspector. a. Typical tree protection devices include:

i. Chain link fence (four feet high)

ii. Super silt fence with wire strung between the support poles (minimum 4 feet high) with high visibility flagging. iii. 14 gauge, 2 inch x 4 inch welded wire fencing supported by steel T-bar

posts (minimum 4 feet high) with high visibility flagging. b. Typical stress reduction measures may include, but are not limited to: i. Root pruning with a root cutter or vibratory plow designed for that

purpose. Trenchers are not allowed, unless approved by the Forest Conservation Inspector ii. Crown Reduction or pruning

iii. Watering

iv. Fertilizing v. Vertical mulching

vi. Root aeration systems

Measures not specified on the Forest Conservation Plan may be required as determined by the Forest Conservation Inspector in coordination with the property owner's arborist.

3. A Maryland Licensed Tree expert must perform, or directly supervise, the implementation of all stress reduction measures. Documentation of the process (including photographs) may be required by the Forest Conservation Inspector, and will be determined at the pre-construction meeting.

4. Temporary tree protection devices must be installed per the approved Forest Conservation Plan, Exemption Plan, or Tree Save Plan and prior to any land disturbance The Forest Conservation Inspector, in coordination with the DPS Sediment Control Inspector, may make field adjustments to increase the survivability of trees and forest shown as saved on the approved plan.

5. Tree protection fencing must be installed and maintained by the property owner for the duration of construction project and must not be altered without prior approval from the Forest Conservation Inspector. All construction activity within protected tree and forest

areas is prohibited. This includes the following activities: a. Parking or driving of equipment, machinery or vehicles of any type.

b. Storage of any construction materials, equipment, stockpiling, fill, debris, etc c. Dumping of any chemicals (i.e., paint thinner), mortar or concrete remainder.

trash, garbage, or debris of any kind. d. Felling of trees into a protected area.

e. Trenching or grading for utilities, irrigation, drainage, etc.

6. Forest and tree protection signs must be installed as required by the Forest Conservation Inspector. The signs must be waterproof and wording provided in both English and

During Construction

7. Periodic inspections will be made by the Forest Conservation Inspector. Corrections and repairs to tree protection devices must be completed within the time frame given by the

8. The property owner must immediately notify the Forest Conservation Inspector of any damage to trees, forests, understory, ground cover, and any other undisturbed areas shown on the approved plan. Remedial actions, and the relative timeframes to restore these areas, will be determined by the Forest Conservation Inspector.

Post-Construction

9. After construction is completed, but before tree protection devices have been removed, the property owner must request a final inspection with the Forest Conservation Inspector. At the final inspection, the Forest Conservation Inspector may require additional corrective measures, which may include:

a. Removal, and possible replacement, of dead, dying, or hazardous trees b. Pruning of dead or declining limbs

c. Soil aeration

d. Fertilization

e. Watering

f. Wound repair g. Clean up of retention areas, including trash removal

10. After the final inspection and completion of all corrective measures the Forest Conservation Inspector will request all temporary tree and forest protection devices be removed from the site. Removal of tree protection devices that also operate for erosion and sediment control must be coordinated with both DPS and the Forest Conservation Inspector and cannot be removed without permission of the Forest Conservation Inspector. No additional grading, sodding, or burial may take place after the tree protection fencing is removed.

11. Long-term protection measures, including permanent signage, must be installed per the approved plan. Installation will occur at the appropriate time during the construction project. Refer to the approved plan drawing for the long-term protection measures to be

INSPECTIONS

All field inspections must be requested by the applicant.

Field Inspections must be conducted as follows:

Plans without Planting Requirements

1. After the limits of disturbance have been staked and flagged, but before any clearing or

2. After necessary stress reduction measures have been completed and protection measures have been installed, but before any clearing and grading begin and before release of the

3. After completion of all construction activities, but before removal of tree protection fencing, to determine the level of compliance with the provision of the forest conservation.

Additional Requirements for Plans with Planting Requirements

4. Before the start of any required reforestation and afforestation planting. 5. After the required reforestation and afforestation planting has been completed to verify that the planting is acceptable and prior to the start the maintenance period.

6. 2 years after reforestation and afforestation have been completed, to determine survival and assess necessary maintenance activities for the remaining duration of the maintenance and management period.

7. At the end of the maintenance period to determine the level of compliance with the provisions of the planting plan, and if appropriate, release of the performance bond. Site Specific Guidelines for Converting Paved Areas into Pervious Greenspace

The Applicant has prepared the following guidelines that include typical practices for the removal of pavements and deconsolidation of underlying soils to promote vegetative growth and infiltration of stormwater, while minimizing impacts to forest and natural resources in the project area. These guidelines are based on an Adopted/Amended (Sept 2017) from M-NCPPC Department of Parks document dated 10/2/2009. Specifically, these procedures have been altered to better match the particular conditions at the Clarksburg Chase property and the conditions for restoration discussed with M-NCPPC Parks Staff during an on-site meeting held on January 10, 2024.

1. Prior to starting construction, contact Miss Utility to clear all existing utilities within work area. Please note that a private utility location firm may be required to locate private utilities not marked by Miss Utility. Coordinate any utility disconnections and/or abandonments with appropriate utility company.

2. Prior to beginning, ensure all required permits have been obtained. If the disturbed area exceeds 5,000 square feet (SF) or earth movement exceeds 100 cubic yards (CY), a Sediment Control Permit will be required from the Montgomery County Department of Permitting Services (MCDPS). Additional approvals may be required from the Department of Planning of M-NCPPC and/or the Maryland Department of the Environment (MDE), depending on the location of the project relative to streams, wetlands, and other natural resources. Please note, that even when the project does not require formal permitting, standard sediment control and tree protection practices should be used.

3. Conduct a pre-construction meeting with appropriate personnel from the contracting company, Applicant, and any agency having jurisdiction over the proposed construction activities, including the M-NCPPC inspector. The limit of disturbance (LOD) and access route should be identified, and a final set of approved plans should be available for review and discussion. The LOD may be field adjusted with the approval of the M-NCPPC inspector to minimize impacts to adjacent natural resources.

4. Field-locate and install Tree Protection Measures on trees greater than 16" diameter at breast height (DBH) within 25' of the proposed LOD and any significant or specimen trees that project a Critical Root Zone (CRZ) into the LOD. Install perimeter sediment controls around work area per the approved plans. Schedule work when favorable weather conditions are forecasted over the anticipated period of construction. In the event that poor weather conditions develop or if work is suspended for more than 2-3 days, the work area should be covered or otherwise stabilized with a temporary seed and straw mulching.

5. Remove existing pavements (and subbase, if applicable), and other impervious materials in accordance with the approved plans, the project intent, and field direction by Applicant's representative and inspectors.

6. Deconsolidate soils throughout areas of former imperviousness extending 2-feet beyond previous limits where feasible to promote vegetative growth while minimizing impacts to existing forest and natural resources.

7. Once soil is deconsolidated and approved by Applicant's representative and inspectors, apply approved native seed mix over disturbed area and install/tack straw mulching. Thoroughly water seeded area to establish good stand of vegetation. Note that if project is on M-NCPPC property (or area to be dedicated to M-NCPPC), establishment of vegetation shall be in accordance with Planting Requirements for Land-Disturbing Activities and Related Mitigation on M-NCPPC Montgomery County Parkland and latest standards of M-NCPPC.

8. Once vegetation is established (and with approval of inspectors) remove sediment controls, tree protection fencing, and any miscellaneous debris throughout site.

ROCKVILLE OFFICE

2 Research Place, Suite 100 Rockville, MD 20850 P. 301.948.2750 F. 301.948.9067 www.solteszco.com Engineering

Environmental Sciences

Surveying

Planning

POST DRC SUBMISSION | KDL | 03/29/20/ REVISIONS BY

MISS UTILITY NOTE FORMATION CONCERNING EXISTING UNDERGROUND UTILITIE WAS OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTO UST DETERMINE THE EXACT LOCATION AND ELEVATION OF A TS BY HAND, WELL IN ADVANCE OF THE START OF EXCAVATI ONTACT "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF EXCAVATION, IF CLEARANCES ARE LESS THA OWN ON THIS PLAN OR TWELVE (12) INCHES WHICHEVER I ESS. CONTACT THE ENGINEER AND THE UTILITY COMPANY FORE PROCEEDING WITH CONSTRUCTION. CLEARANCES LESS HAN NOTED MAY REQUIRE REVISIONS TO THIS PLAN.

OWNER / DEVELOPER / APPLICANT

JS HOME, LLC 7035 ALBERT EINSTEIN DRIVE OLUMBIA, MD 21046 (443) 206-5737 MARK ANDERSON

NOT

ZONING CATEGORY: OVERLAY ZONE: CLARKSBURG WEST **ENVIRONMENTAL** WATER / SEWER CAT HORIZONTAL: NAD83 VERTICAL: NAVD88/ DATE: | 9/23/2024 ESIGNED: NC CAD STD'S. V8 / NCS VERSION:

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LEGEND

EXISTING CONTOUR

SPECIMEN TREE (GREATER THAN OR EQUAL TO 30" DBH)

SIGNIFICANT TREE (BETWEEN 24-29.9" DBH)

INTERMITTENT/PERENNIAL

EXISTING FOREST TO REMAIN

FOREST TO BE REMOVED

FOREST PLANTING AREA

FOREST CONSERVATION

EASEMENT SIGN

The Undersigned agrees to execute all the features of the Approved Final Forest Conservation Plan No. F20240180 including, financial bonding,

forest planting, maintenance, and all other applicable agreements.

15% SLOPE

25% SLOPE

DEVELOPER'S CERTIFICATE

Contact Person or Owner:

Developer's Name: <u>US HOME, LLC</u> Printed *Company Name*

VARIANCE TREE MITIGATION PLANTING AREA

———— PROPERTY LINE

PROPOSED CONTOUR

LIMIT OF DISTURBANCE

——— SOIL 109D EXISTING SOIL LINE AND LABEL

- — — — LIMIT OF FOREST STAND

----- EPHEMERAL STREAM

------WB------ WETLAND BUFFER

—— FPB——— FLOODPLAIN BUFFER

———— PARK DEDICATION BOUNDARY

-----FP------ FLOODPLAIN

STREAM VALLEY BUFFER

TYP PER 1/10 ACRE - 01 SHADE TREE: QTY. 7 - 1.5"-2" CAL. CANOPY TREES - 02 UNDERSTORY TREE: QTY. 3 - 4'-6' FT UNDERSTORY / PIONEER - 03 SHRUB: QTY. 3.3 - 24"-30" HT. SHRUBS — 01 SHADE TREE 01 SHADE TREE 02 UNDERSTORY TREE 02 UNDERSTORY TREE -01 SHADE TREE O2 UNDERSTORY TREE 01 SHADETREE

REFORESTATION PLANTING

		Plantin	g Area 1 Sch	edule		
		418	4 SF / 0.10 A	رC		
Qty	Botanical Name	Common Name	Size	Spacing	Туре	Remarks
Shade Tr	ees					
1	llex opaca	American Holly	1.5" Cal.	As Shown	B&B	Full, To the Ground, Well Balance
1	Juniperus virginiana	Eastern Red Cedar	1.5" Cal.	As Shown	B&B	Full, To the Ground, Well Balance
1	Liriodendron tulipi fera	Tulip Poplar	1.5" Cal.	As Shown	B&B	Full, Well Branched
2	Platanus occidentalis	American Sycamore	1.5" Cal.	As Shown	B&B	Full, Well Branched
1	Quercus alba	White Oak	1.5" Cal.	As Shown	B&B	Full, Well Branched
2	Quercus rubra	Red Oak	1.5" Cal.	As Shown	B&B	Full, Well Branched
8	Total					
Unde rst	ory Trees					
1	Amelanchier arborea	Downy Serviceberry	4' Ht.	As Shown	B&B	Full, Well Balanced
1	Cercis canadensis	Eastern Redbud	4'Ht.	As Shown	B&B	Full, Well Balanced
2	Total					
Shrubs						
1	Cephalanthus occidentalis	Buttonbush	36" Ht.	48" O.C.	Cont.	Dense, Full
1	Hamamelis virginiana	Witch Hazel	36" Ht.	48" O.C.	Cont.	Dense, Full
2	Viburnum dentatum	Arrowwood	24" Ht.	36" O.C.	Cont.	Dense, Full
4	Total					
		Plantin	g Area 2 Sch	edule		
			643 SF / 6.51			
Qty	Botanical Name	Common Name	Size	Spacing	Туре	Remarks
Shade Tr	ees				.,	
66	Acerrubrum	Red Maple	1.5" Cal.	As Shown	B&B	Full, Well Branched
65	llex opaca	American Holly	1.5" Cal.	As Shown	B&B	Full, Tothe Ground, Well Balanc
65	Juniperus virginiana	Eastern Red Cedar	1.5" Cal.	As Shown	B&B	Full, To the Ground, Well Balance
65	Liriodendron tulinifera	Tulin Poplar	1 5" Cal	As Shown	R&R	Full Well Branched

		Planting	Area 2 Sch	edule		
		283,5	43 SF / 6.51	AC		
Qty	Botanical Name	Common Name	Size	Spacing	Туре	Remarks
ade Tr	ees					
66	Acerrubrum	Red Maple	1.5" Cal	As Shown	B&B	Full, Well Branched
65	llex opaca	American Holly	1.5" Cal.	As Shown	B&B	Full, Tothe Ground, Well Balar
65	Juniperus virginiana	Eastern Red Cedar	1.5" Cal.	As Shown	B&B	Full, To the Ground, Well Balar
65	Liriodendron tulipifera	Tulip Poplar	1.5" Cal.	As Shown	B&B	Full, Well Branched
65	Platanus occidentalis	American Sycamore	1.5" Cal.	As Shown	B&B	Full, Well Branched
65	Quercus alba	White Oak	1.5" Cal.	As Shown	B&B	Full, Well Branched
65	Quercus rubra	Red Oak	1.5" Cal.	As Shown	B&B	Full, Well Branched
456	Total					
ndersto	or y Trees					
33	Cornus florida	Flowering Dogwood	4' Ht.	As Shown	B&B	Full, Well Balanced
33	Cercis canadensis	Eastern Redbud	4'Ht.	As Shown	B&B	Full, Well Balanced
33	Amelanchier arborea	Downy Serviceberry	4' Ht.	As Shown	B&B	Full, Well Balanced
32	Prunus serotina	Black Cherry	4' Ht.	As Shown	B&B	Full, Well Balanced
32	Diospyros virginiana	Common Persimmon	4'Ht.	As Shown	B&B	Full, Well Balanced
32	Sassafras albidum	Sassafras	4' Ht.	As Shown	B&B	Full, Well Balanced
195	Total					
rubs						
36	Lindera benzoin	Spicebush	24" Ht.	36" O.C.	Cont.	Dense, Full
36	llex verticillata	Winterberry	36" Ht.	48" O.C.	Cont.	Dense, Full
36	Cephalanthus occidentalis	Buttonbush	36" Ht.	48" O.C.	Cont.	Dense, Full
36	Hamamelis virginiana	Witch Hazel	36" Ht.	48" O.C.	Cont.	Dense, Full
36	Viburnum dentatum	Arrowwood	24" Ht.	36" O.C.	Cont.	Dense, Full
37	Viburnum prunifolium	Blackhaw viburnum	24" Ht.	36" O.C.	Cont.	Dense, Full
31						•

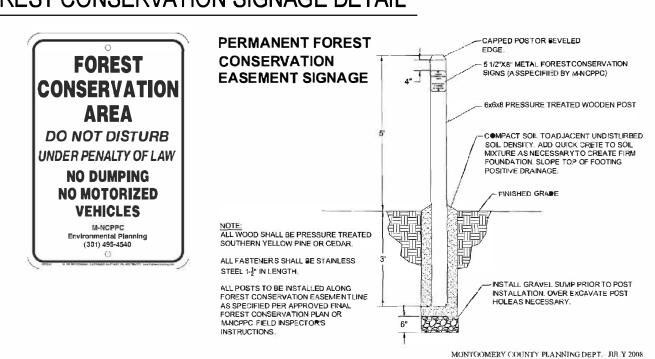
		Planting	g Area 3 Sch	edule		
		62,189	SF / 1.43 A	cres		
Qty	Botanical Name	Common Name	Size	Spacing	Type	Remarks
Shade Tr	ees					
15	Acerrubrum	Red Maple	1.5" Cal .	As Shown	B&B	Full, Well Branched
15	llex opaca	American Holly	1.5" Cal.	As Shown	B&B	Full, To the Ground, Well Balance
15	Juniperus virginiana	Eastern Red Cedar	1.5" Cal.	As Shown	B&B	Full, Tothe Ground, Well Balance
14	Liriodendron tulipifera	Tulip Poplar	1.5" Cal.	As Shown	B&B	Full, Well Branched
14	Platanus occidentalis	American Sycamore	1.5" Cal.	As Shown	B&B	Full, Well Branched
14	Quercus alba	White Oak	1.5" Cal.	As Shown	B&B	Full, Well Branched
14	Quercus rubra	Red Oak	1.5" Cal.	As Shown	B&B	Full, Well Branched
101	Total					
Understo	ory Trees					
7	Amelanchier arborea	Downy Serviceberry	4' Ht.	As Shown	B&B	Full, Well Balanced
7	Cercis canadensis	Eastern Redbud	4'Ht.	As Shown	B&B	Full, Well Balanced
7	Cornus florida	Flowering Dogwood	4' Ht.	As Shown	B&B	Full, Well Balanced
7	Diospyros virginiana	Common Persimmon	4'Ht.	As Shown	B&B	Full, Well Balanced
7	Prunu.sserotina	Black Cherry	4' Ht.	As Shown	B&B	Full, Well Balanced
7	Sassafras albidum	Sassafras	4' Ht.	As Shown	B&B	Full, Well Balanced
42	Total					
Shrubs						
8	Cephalanthus occidentalis	Buttonbush	36" Ht.	48" O.C.	Cont.	Dense, Full
8	Hamamelis virginiana	Witch Hazel	36" Ht.	48" O.C.	Cont.	Dense, Full
8	llex verticillata	Winterberry	36" Ht.	48" O.C.	Cont.	Dense, Full
8	Lindera benzoin	Spicebush	24" Ht.	36" O.C.	Cont.	Dense, Full
8	Viburnum dentatum	Arrowwood	24" Ht.	36" O.C.	Cont.	Dense, Full
8	Viburnum prunifolium	Blackhaw viburnum	24" Ht.	36" O.C.	Cont.	Dense, Full
48	Total					

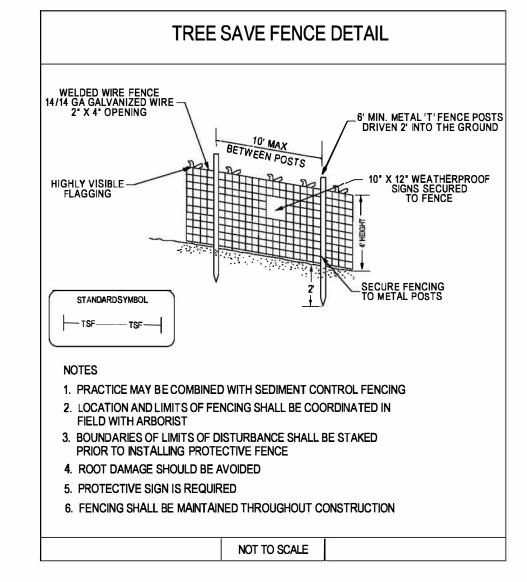
MITIGATION PLANTING

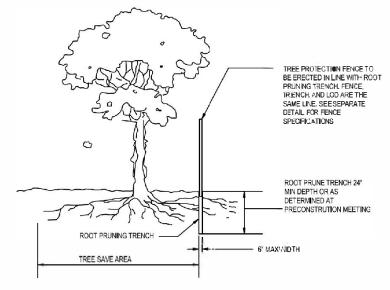
VARIANCE TREE MITIGATION PLANTING REQUIREMENTS					
Tree #	Common Name	Botanical Name	DBH (inch)		
ST-130	Chestnut Oak	Quercus montana	37.5		
ST-131	Black Walnut	Juglans nigra	31		
ST-147	Tulip Tree Liriodendron tulip fera				
Total DBH Removed					
Total Caliper Replacement Required (1" caliper/4" DBH)					

Clarksburg Chase - Mitigation Planting Schedule						
Qty	Botanical Name	Common Name	Size	Spacing	Туре	Remarks
Shade Tr	ees					
2	Fagus grandīflora	American Beech	3.5-4" Cal.	As Shown	B&B	Full, Well Branched
3	Liquidambar styraciflua	Sweetgum	3.5-4" Cal.	As Shown	B&B	Full, Well Branched
3	Quercus bicolor	Swamp White Oak	3.5-4" Cal.	As Shown	B&B	Full, Well Branched
8	Total		28"	Total Caline	•	

FOREST CONSERVATION SIGNAGE DETAIL

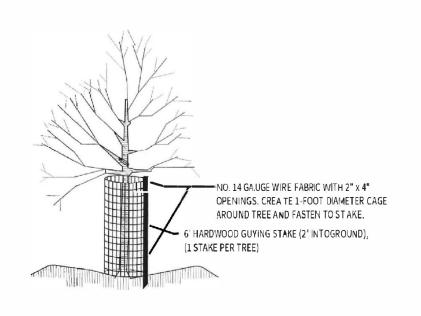




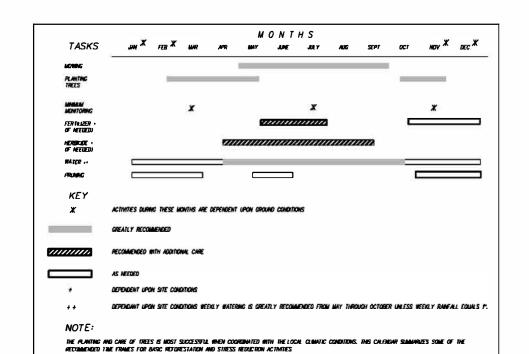


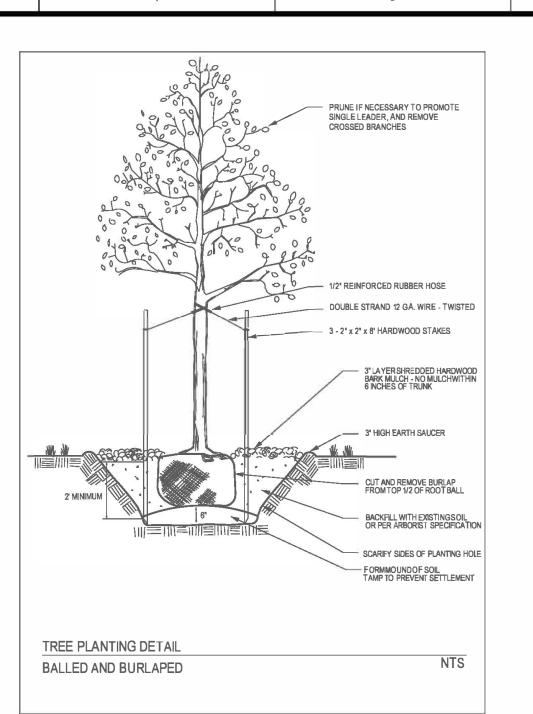
1. RETENTION AREAS WILL BE SET AS PART OF THE REVIEW PROCESS AND PRECONSTRUCTION 2. BOUNDARIES OF RETENTION AREAS MUST BE STAKED AT THE PRECONSTRUCTION MEETING AND FLAGGED PRIOR TO TRENCHING. 3. EXACT LOCATION OF TRENCH SHALL BE DETERMINED IN THE FIELD IN COORDINATION WITH THE FOREST CONSERVATION (FC) INPECTOR 4. TRENCH SHOULD BE IMMEDIATELY 3,4CKFILLED WITH EXCAVATED SOIL OR OTHER ORGANIC SOILAS SPECIFIED PERPLANOR BY THE FC INSPECTOR. 5. ROOTS SHALL BE CLEANLY CIJT USING VIBRATORY KNIFE OR OTHER ACCEPTABLE 6. ALL PRUNING MUST BE EXECUTED WITH LOD SHOWN ON PLANS OR AS AUTHORIZED IN WRITING BY THE FC INSPECTOR.

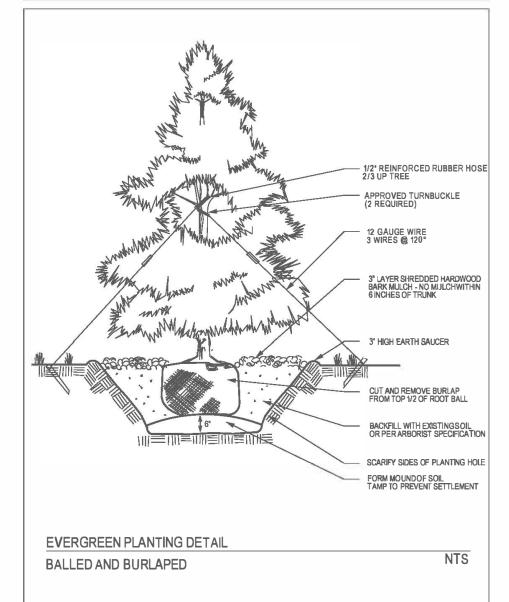
ROOT PRUNING DETAIL

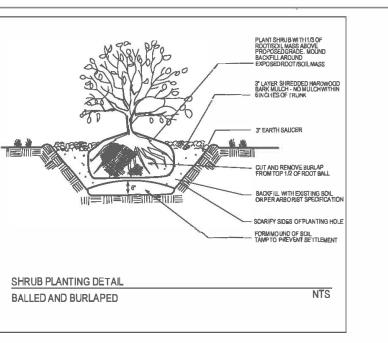


1. Height of cage shall be 4-feet (min.). 2. Cage shall be fastened to stake with two (min.) 11-inch releasable cable ties (one at top and one 6" (min.) above the ground. Do not damage tree during installation. 4. Substitutions must be approved by Forest Conservation Inspector. 5. Cases to be removed at direction of Forest Conservation Inspector. DEER PROTECTION FENCE





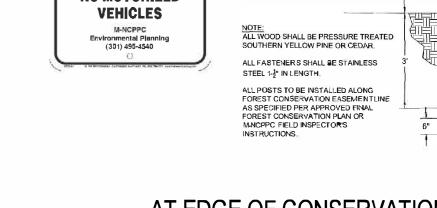




ROCKVILLE OFFICE 2 Research Place, Suite 100 Rockville, MD 20850 P. 301.948.2750 F. 301.948.9067 www.solteszco.com Engineering Surveying Planning **Environmental Sciences** POST DRC SUBMISSION | KDL | 03/29/202 REVISIONS **MISS UTILITY NOTE** NFORMATION CONCERNING EXISTING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF ALI PITS BY HAND, WELL IN ADVANCE OF THE START OF EXCAVATION CONTACT "MISS UTILITY" AT 1-800-257-7777, 48 HOURS PRIOR TO THE START OF EXCAVATION. IF CLEARANCES ARE LESS THAN SHOWN ON THIS PLAN OR TWELVE (12) INCHES. WHICHEVER IS LESS, CONTACT THE ENGINEER AND THE UTILITY COMPANY BEFORE PROCEEDING WITH CONSTRUCTION. CLEARANCES LESS THAN NOTED MAY REQUIRE REVISIONS TO THIS PLAN. **OWNER / DEVELOPER / APPLICANT** US HOME, LLC 7035 ALBERT EINSTEIN DRIVE SUITE 200 COLUMBIA, MD 21046 (443) 206-5737 MARK ANDERSON

TAX MAP EV 123	ZONING CATEGORY:		
WSSC 200' SHEET 231 NW 14	OVERLAY ZONE: CLARKSBURG WEST ENVIRONMENTAL		
SITE DATUM PRIZONTAL: <u>NAD83</u> RTICAL: <u>NAVD88/9</u> 1	WATER / SEWER CAT.: W3/S3		
1" = <u>N/A</u>	DATE: \$DATE\$ DESIGNED: NC TECHNICIAN: NC		

CHECKED: DHP CAD STD'S. VERSION: V8/NCS



MARK ANDERSON Printed *Name* 7035ALBERT EINSTEIN DR., SUITE 200, COLUMBIA, MD 21046 Phone and Email:

AT EDGE OF CONSERVATION EASEMENT AREA (MIN. 100' O.C.)