M-NCPPC APPROVAL STAMP

WORKSHEET

FOREST CONSERVATION WORKSHEET
5011 Riggs Road

NET TRACT AREA:

A. Total tract area ...	7.52
B. Additions to tract area (Off-Site Work, etc.; construction required by this plan)...	0.00
C. Land dedication acres (parks, county facility, etc.) ...	0.00
D. Land dedication for roads or utilities (construction not required by this plan) ...	0.00
E. Area to remain in commercial agricultural production/use ...	0.00
F. Other deductions (specify)	0.00
G. Net Tract Area .....=	7.52

LAND USE CATEGORY: (from Chapter 22A-3. Definitions)
Input the number "1" under the appropriate land use, limit to only one entry.

ARA	MDR	IDA	HDR	MPD	CIA
1	0	0	0	0	0

G. Afforestation Threshold ...	20%	x G =	1.50
H. Conservation Threshold ...	50%	x G =	3.76

EXISTING FOREST COVER:

I. Existing forest cover .....=	0.30
J. Area of forest above afforestation threshold .....=	0.00
K. Area of forest above conservation threshold .....=	0.00

BREAK EVEN POINT:

L. Forest retention above threshold with no mitigation ....=	0.00
M. Clearing permitted without mitigation .....=	0.00

PROPOSED FOREST CLEARING:

N. Total area of forest to be cleared .....=	0.15
O. Total area of forest to be retained .....=	0.15

PLANTING REQUIREMENTS:

P. Reforestation for clearing above conservation threshold ....=	0.00
Q. Reforestation for clearing below conservation threshold ....=	0.30
R. Credit for retention above conservation threshold .....=	0.00
S. Total reforestation required .....=	0.30
T. Total afforestation required .....=	1.20
U. Credit for landscaping (may not exceed 20% of "S") .....=	0.00
V. Total reforestation and afforestation required .....=	**1.50**

TREE TABLE

TREE NO.	BOTANICAL NAME	COMMON NAME	D.B.H. (in)	CONDITION	CRZ (SF)	% CRZ IMPACT	PRESERVE/ REMOVE
1	Quercus rubra	Northern Red Oak**	30	45	45	-	PRESERVE
2	Quercus rubra	Northern Red Oak*	25	45	38	-	PRESERVE
3	Acer rubrum	Red Maple**	30	20	45	-	PRESERVE
4	Acer rubrum	Red Maple*	26.5	65	40	-	PRESERVE
5	Quercus rubra	Northern Red Oak*	25	60	38	-	PRESERVE
6	Morus alba	White Mulberry	18	65	27	-	PRESERVE
7	Acer rubrum	Red Maple**	43	55	65	-	PRESERVE
8	Acer rubrum	Red Maple	22	70	33	-	PRESERVE
9	Acer saccharinum	Silver Maple**	34	55	51	-	PRESERVE
10	Acer rubrum	Red Maple**	34	55	51	-	PRESERVE
11	Acer rubrum	Red Maple*	26	60	39	-	PRESERVE
12	Acer saccharinum	Silver Maple**	34	65	51	-	PRESERVE
13	Acer saccharinum	Silver Maple**	46	45	69	12%	PRESERVE
14	Acer rubrum	Red Maple	23	65	35	-	PRESERVE
15	Acer saccharinum	Silver Maple**	45	55	68	43%	**REMOVE**
16	Prunus serotina	Black Cherry*	26	55	39	-	PRESERVE
17	Morus alba	White Mulberry	23	60	35	-	PRESERVE
18	Prunus serotina	Black Cherry	21	40	32	-	PRESERVE
19	Acer rubrum	Red Maple*	24	60	36	-	PRESERVE
20	Populus deltoides	Cottonwood	26	60	39	-	PRESERVE
21	Acer rubrum	Red Maple*	24	65	36	-	PRESERVE
22	Acer rubrum	Red Maple	23	60	35	-	PRESERVE
23	Acer rubrum	Red Maple*	28	40	42	-	PRESERVE
24	Acer rubrum	Red Maple*	26	65	39	-	PRESERVE
25	Prunus serotina	Black Cherry**	35	65	53	-	PRESERVE
26	Acer rubrum	Red Maple**	30	65	45	-	PRESERVE
27	Acer rubrum	Red Maple**	36	35	54	-	PRESERVE
28	Acer rubrum	Red Maple*	26	60	39	-	PRESERVE
29	Acer rubrum	Red Maple*	24	70	36	-	PRESERVE
30	Quercus rubra	Northern Red Oak**	30	50	45	-	PRESERVE
31	Acer rubrum	Red Maple	22	70	33	-	PRESERVE
32	Acer rubrum	Red Maple**	33	55	50	-	PRESERVE
33	Acer rubrum	Red Maple*	26	55	39	-	PRESERVE
34	Acer rubrum	Red Maple**	36	65	54	-	PRESERVE
35	Acer rubrum	Red Maple*	25	65	38	-	PRESERVE
36	Acer rubrum	Red Maple	21	65	32	-	PRESERVE
37	Acer rubrum	Red Maple	22	70	33	-	PRESERVE
38	Acer rubrum	Red Maple*	24	65	36	-	PRESERVE
39	Acer saccharinum	Silver Maple**	48	50	72	-	PRESERVE
40	Acer rubrum	Red Maple**	31.5	50	47	-	PRESERVE
41	Acer rubrum	Red Maple**	30	65	45	-	PRESERVE
42	Quercus rubra	Northern Red Oak**	30	60	45	-	PRESERVE
43	Acer rubrum	Red Maple	23	55	35	-	PRESERVE
44	Quercus rubra	Northern Red Oak	23	65	35	-	PRESERVE
45	Prunus serotina	Black Cherry*	26	45	39	-	PRESERVE
46	Quercus rubra	Northern Red Oak**	38	60	57	-	PRESERVE
47	Quercus alba	White Oak**	30	40	45	-	PRESERVE
48	Robinia pseudoacacia	Black Locust	23	55	35	-	PRESERVE
49	Quercus alba	White Oak**	30	75	45	-	PRESERVE
50	Populus deltoides	Cottonwood	31	60	47	-	PRESERVE
51	Acer negundo	Boxelder*	26	50	39	-	PRESERVE
52	Acer negundo	Boxelder*	25.5	55	38	-	PRESERVE
53	Acer negundo	Boxelder**	41	50	62	-	PRESERVE
54	Quercus rubra	Northern Red Oak	23	75	35	-	PRESERVE
55	Quercus rubra	Northern Red Oak	22	70	33	-	PRESERVE
56	Quercus rubra	Northern Red Oak*	25	75	38	-	PRESERVE
57	Quercus rubra	Northern Red Oak*	26	70	39	-	PRESERVE
58	Quercus rubra	Northern Red Oak*	27.5	75	41	-	PRESERVE
59	Quercus rubra	Northern Red Oak*	24	75	36	-	PRESERVE
60	Quercus rubra	Northern Red Oak*	34	75	51	-	PRESERVE
61	Liriodendron tulipifera	Tulip Poplar	22.5	75	34	-	PRESERVE
62	Liriodendron tulipifera	Tulip Poplar**	31	75	47	-	PRESERVE
63	Liriodendron tulipifera	Tulip Poplar	23	75	35	-	PRESERVE
64	Quercus rubra	Northern Red Oak	23	65	35	-	PRESERVE
65	Quercus rubra	Northern Red Oak	24	65	36	-	PRESERVE
66	Quercus rubra	Northern Red Oak*	28	75	42	-	PRESERVE
67	Quercus alba	White Oak**	24	70	36	-	PRESERVE
68	Quercus rubra	Northern Red Oak*	28	70	42	-	PRESERVE
69	Liriodendron tulipifera	Tulip Poplar	21	60	32	-	PRESERVE
70	Liriodendron tulipifera	Tulip Poplar	22	70	33	-	PRESERVE
71	Quercus rubra	Northern Red Oak*	26.5	65	40	-	PRESERVE
72	Liriodendron tulipifera	Tulip Poplar**	31.5	70	47	-	PRESERVE
73	Liriodendron tulipifera	Tulip Poplar**	36	75	54	-	PRESERVE
74	Quercus rubra	Northern Red Oak*	24	60	36	-	PRESERVE
75	Liriodendron tulipifera	Tulip Poplar**	33	45	50	-	PRESERVE
76	Liriodendron tulipifera	Tulip Poplar**	31	70	47	-	PRESERVE
77	Liriodendron tulipifera	Tulip Poplar**	30.5	70	46	-	PRESERVE
78	Quercus rubra	Northern Red Oak*	24	75	36	-	PRESERVE
79	Acer rubrum	Red Maple*	28	70	42	-	PRESERVE
80	Prunus serotina	Black Cherry*	26	45	39	-	PRESERVE
81	Liriodendron tulipifera	Tulip Poplar**	37.5	50	56	-	PRESERVE
82	Acer rubrum	Red Maple*	26.5	55	40	-	PRESERVE
83	Quercus rubra	Northern Red Oak**	32.5	70	49	-	PRESERVE
84	Quercus rubra	Northern Red Oak*	24	70	36	-	PRESERVE
85	Quercus alba	White Oak**	36	60	54	-	PRESERVE
86	Quercus alba	White Oak**	38	70	57	10%	PRESERVE
87	Celtis occidentalis	Hackberry	25.5	60	38	-	PRESERVE
88	Picea abies	Norway Spruce	21	70	32	-	PRESERVE
89	Liriodendron tulipifera	Tulip Poplar**	32	65	48	27%	PRESERVE
90	Acer rubrum	Red Maple*	26	70	39	25%	PRESERVE
91	Liriodendron tulipifera	Tulip Poplar**	50	70	75	30%	PRESERVE
92	Liriodendron tulipifera	Tulip Poplar*	25	65	38	13%	PRESERVE
93	Quercus rubra	Northern Red Oak**	42	40	63	15%	PRESERVE
94	Liriodendron tulipifera	Tulip Poplar*	27	55	41	10%	PRESERVE
95	Liriodendron tulipifera	Tulip Poplar**	33	50	50	16%	PRESERVE
96	Liriodendron tulipifera	Tulip Poplar*	24	60	36	5%	PRESERVE
97	Quercus alba	White Oak*	24	70	36	-	PRESERVE
98	Liriodendron tulipifera	Tulip Poplar*	26	70	39	-	PRESERVE
99	Liriodendron tulipifera	Tulip Poplar**	42	60	63	-	PRESERVE
100	Ailanthus altissima	Tree Of Heaven	15	30	23	-	PRESERVE
101	Ailanthus altissima	Tree Of Heaven	27	30	41	-	PRESERVE
102	Liriodendron tulipifera	Tulip Poplar**	36	70	54	-	PRESERVE

NOTES:
1) * DENOTES A SIGNIFICANT TREE (24-29" DBH)
2) ** DENOTES A SPECIMEN TREE
3) A VARIANCE IS REQUIRED FOR THE REMOVAL OF SPECIMEN TREE #15 AND DISTURBANCE WITHIN THE CRITICAL ROOT ZONE OF SPECIMEN TREES #13, 86, 89, 91, 93 & 95 AND HAS BEEN SUBMITTED UNDER A SEPARATE COVER.

DATA TABLE

Forest Conservation Data Table

	Number of Acres
Tract	7.52
Remaining in Agricultural Use	-
Road & Utility ROWs[1]	-
Total Existing Forest	0.30
Forest Retention	0.15
Forest Cleared	0.15

Land Use & Thresholds[2]

Land Use Category	ARA	ARA, MDR, IDA, HDR, MDP, or CIA.
Conservation Threshold	50%	percent
Afforestation Threshold	20%	percent

	Total Channel Length (ft.)	Average Buffer Width (ft.)[3]
Stream(s)	-	125

Acres of Forest in	Retained	Cleared	Planted
Wetlands	-	-	-
100-Year Floodplain	-	-	-
Stream Buffers	-	-	-
Priority Areas	-	-	-

[1] Only Road or Utility ROWs not to be improved as part of development application.
[2] Information from FC Land Use Categories & Thresholds document.
[3] Measured from stream edge to buffer edge.

VARIANCE MITIGATION TABULATION

SIX (6), 2" CAL. SHADE TREES MUST BE PROVIDED AS MITIGATION FOR THE REMOVAL OF TREE #15, A 45" CAL. SILVER MAPLE AS SHOWN IN THE TREE INVENTORY ABOVE. THE FORMULA FOR DETERMINING MITIGATION IS 1" CAL. OF DIAMETER REPLACED FOR EVERY 4" CAL. OF DIAMETER REMOVED. THESE TREES DO NOT COUNT TOWARD AFFORESTATION REQUIREMENTS.

TOTAL DIAMETER OF VARIANCE TREES TO BE REMOVED: 45"

MITIGATION REQUIRED: 11.25"
(1" CAL. OF DIAMETER REPLACED FOR EVERY 4" CAL. OF DIAMETER REMOVED)

MITIGATION PROVIDED: 12"
(SIX (6), 2" CAL. TREES)

VARIANCE MITIGATION TREE SCHEDULE

KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION
DECIDUOUS TREES					
CC	3	CERCIS CANADENSIS	EASTERN REDBUD	2" CAL.	B & B
CF	3	CORNUS FLORIDA	FLOWERING DOGWOOD	2" CAL.	B & B

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MITIGATION PROVIDED: 12"
(SIX (6), 2" CAL. TREES)

DEVELOPER'S CERTIFICATE

The undersigned agrees to execute all the features of Approved Final Forest Conservation Plan No. TBD, including financial bonding, forest planting, maintenance, and all other applicable agreements.

Developer's Name: FREE REIN SOLAR FARM, LLC (Printed Company Name)
Contact Person or Owner: MICHAEL CHAPMAN (Printed Name)
Address: 4611 SLEAFORD ROAD, BETHESDA, MD 20814
Phone and Email: 301-442-9712, MC@FREEREINSOLAR.COM
Signature:

Bowman

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FINAL FOREST CONSERVATION NOTES & DETAILS (1 OF 4)
5011 RIGGS ROAD
WSSC GRID #229NW05, 230NW05 & 230NW04
TAX MAP: HV21, GRID: 0000, PARCEL: P200
MONTGOMERY COUNTY, MARYLAND

STATE OF MARYLAND
GREGG D. PERRY
No. 1869
REGISTERED
LANDSCAPE ARCHITECT
02/07/23

PLAN STATUS	
9/12/22	1ST SUBMISSION
2/07/23	2ND SUBMISSION

DATE	DESCRIPTION

GDE	GDE	GDE
DESIGN	DRAWN	CHKD

SCALE H: N/A V: N/A
JOB No. 140233-01-002
DATE : FEBRUARY, 2023
FILE No.