



- NOTES:
- RETENTION AREAS WILL BE SET AS PART OF THE REVIEW PROCESS AND PRECONSTRUCTION MEETING.
 - BOUNDARIES OF RETENTION AREAS MUST BE STAKED AT THE PRECONSTRUCTION MEETING AND FLAGGED PRIOR TO TRENCHING.
 - EXACT LOCATION OF TRENCH SHALL BE DETERMINED IN THE FIELD IN COORDINATION WITH THE FOREST CONSERVATION (FC) INSPECTOR.
 - TRENCH SHOULD BE IMMEDIATELY BACKFILLED WITH EXCAVATED SOIL OR OTHER ORGANIC SOIL AS SPECIFIED PER PLAN OR BY THE FC INSPECTOR.
 - ROOTS SHALL BE CLEANLY CUT USING VIBRATORY KNIFE OR OTHER ACCEPTABLE EQUIPMENT.
 - ALL PRUNING MUST BE EXECUTED WITH LOD SHOWN ON PLANS OR AS AUTHORIZED IN WRITING BY THE FC INSPECTOR.

ROOT PRUNING DETAIL

FOREST CONSERVATION WORKSHEET
JOHNS HOPKINS HEALTH CARE & SURGERY CENTER AT BELWARD FARM PLAN NO 820210120

NET TRACT AREA:

A. Total tract area ...	138.15
B. Additions to tract area (Off-Site Work, etc.; construction required by this plan)...	2.44
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	140.59

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
0	0	0	0	0	1

G. Afforestation Threshold ...	15%	x G =	21.09
H. Conservation Threshold ...	15%	x G =	21.09

EXISTING FOREST COVER:

I. Existing forest cover	29.80
J. Area of forest above afforestation threshold	8.71
K. Area of forest above conservation threshold	8.71

BREAK EVEN POINT:

L. Forest retention above threshold with no mitigation	22.83
M. Clearing permitted without mitigation	6.97

PROPOSED FOREST CLEARING:

N. Total area of forest to be cleared	26.27
O. Total area of forest to be retained	3.53

PLANTING REQUIREMENTS:

P. Reforestation for clearing above conservation threshold	2.18
Q. Reforestation for clearing below conservation threshold	35.12
R. Credit for retention above conservation threshold	0.00
S. Total reforestation required	37.29
T. Total afforestation required	0.00
U. Credit for landscaping (may not exceed 20% of "S")	0.00
V. Total reforestation and afforestation required	37.29

DATA TABLE

ACREAGE OF TRACT	138.15
ACREAGE OF TRACT REMAINING IN AGRICULTURAL USE	0.00
ACREAGE OF ROAD AND UTILITY RIGHTS-OF-WAY NOT IMPROVING WITH THIS PLAN	0.00
ACREAGE OF TOTAL EXISTING FOREST	29.80
ACREAGE OF FOREST RETENTION	3.53
ACREAGE OF TOTAL FOREST CLEARED	26.27
LAND USE CATEGORY/CONSERVATION/AFFORESTATION THRESHOLDS	CIA/15%/15%
ACREAGE OF FOREST RETAINED WITHIN WETLANDS	0.00
ACREAGE OF FOREST CLEARED WITHIN WETLANDS	0.00
ACREAGE OF FOREST RETAINED WITHIN 100 YEAR FLOODPLAIN	0.00
ACREAGE OF FOREST CLEARED WITHIN 100 YEAR FLOODPLAIN	0.00
ACREAGE OF FOREST PLANTED WITHIN 100 YEAR FLOODPLAIN	0.00
ACREAGE OF FOREST RETAINED WITHIN STEAM BUFFERS	0.00
ACREAGE OF FOREST CLEARED WITHIN STEAM BUFFERS	0.00
ACREAGE OF FOREST PLANTED WITHIN STEAM BUFFERS	7.03
ACREAGE OF FOREST RETAINED WITHIN PRIORITY AREAS	0.00
ACREAGE OF FOREST CLEARED WITHIN PRIORITY AREAS	0.00
ACREAGE OF FOREST PLANTED WITHIN PRIORITY AREAS	7.03
LINEAR FEET AND AVERAGE WIDTH OF STREAM BUFFER PROVIDED ON EACH SIDE OF STREAM	1,569 LF/100' AVERAGE WIDTH

FOREST CONSERVATION CHART

EXISTING PRESERVATION AREAS EASTERN PARCELS	1.49 ACRES
EXISTING PRESERVATION AREAS EASTERN PARCELS	1.08 ACRES
A TOTAL EXISTING PRESERVATION (EASTERN PARCELS)	2.57 ACRES
B TOTAL EXISTING PRESERVATION 107.27 ACRE PARCEL	0.96 ACRES
C TOTAL EXISTING REFORESTATION (EASTERN PARCELS)	0 ACRES
D EXISTING CATEGORY I CONSERVATION EASEMENT PLANTING AREAS	12.24 ACRES
E EXISTING CATEGORY I CONSERVATION EASEMENT PLANTING AREAS TO BE ABANDONED	2.43 ACRES
F PROPOSED AFFORESTATION CATEGORY I EASEMENT - MISSION HILLS BUFFER (PHASES 1A-1C)	7.37 ACRES
G PROPOSED AFFORESTATION CATEGORY I EASEMENT - STREAM BUFFER (PHASES 2A-2E)	7.37 ACRES
H PROPOSED AFFORESTATION CATEGORY I EASEMENT - FUTURE PHASES (PHASES 3A-3B)	3.75 ACRES
I PROPOSED AFFORESTATION CATEGORY II EASEMENT	0 ACRES
J TOTAL AFFORESTATION (PARCELS A AND B)	18.49 ACRES
K OFFSITE FOREST CONSERVATION	18.80 ACRES
L TOTAL REFORESTATION AND AFFORESTATION CONSERVATION PROVIDED (C+D+E)	37.29 ACRES

SPECIMEN TREE TABLE

KEY	SPECIES	SIZE	CONDITION	REMAIN/REMOVE
1	White Pine (Pinus strobus)	31.4"	GOOD	REMAIN
2	White Pine (Pinus strobus)	24.0"	GOOD	REMAIN
3	Black Walnut (Juglans nigra)	24.0"	GOOD	REMAIN
4	Black Walnut (Juglans nigra)	24.0"	GOOD	REMAIN
5	Black Walnut (Juglans nigra)	40.0"	GOOD	REMAIN
6	White Oak (Quercus alba)	40.4"	GOOD	REMAIN
7	American Sycamore (Platanus occidentalis)	42.0"	GOOD	REMAIN
8	White Oak (Quercus alba)	38.0"	GOOD	REMAIN
9	White Oak (Quercus alba)	26.0"	GOOD	REMAIN
10	White Oak (Quercus alba)	30.0"	GOOD	REMAIN
11	White Oak (Quercus alba)	34.0"	GOOD	REMAIN
12	White Oak (Quercus alba)	30.0"	GOOD	REMAIN
13	Northern Red Oak (Quercus rubra)	24.0"	GOOD	REMAIN
14	Northern Red Oak (Quercus rubra)	24.0"	GOOD	REMAIN
15	White Oak (Quercus alba)	40.0"	GOOD	REMAIN
16	Red Maple (Acer rubrum)	40.0"	GOOD	REMAIN
17	Black Walnut (Juglans nigra)	30.0"	GOOD	REMAIN
18	White Oak (Quercus alba)	30.0"	GOOD	REMAIN
19	Eastern Red Cedar (Juniperus virginiana)	24.0"	GOOD	REMAIN
20	Eastern Red Cedar (Juniperus virginiana)	25.3"	GOOD	REMOVE
21	Eastern Red Cedar (Juniperus virginiana)	25.2"	GOOD	REMOVE
22	Black Walnut (Juglans nigra)	24.0"	GOOD	REMAIN
23	Black Walnut (Juglans nigra)	24.0"	GOOD	REMAIN
24	White Oak (Quercus alba)	31.4"	GOOD	REMAIN
25	White Oak (Quercus alba)	30.0"	GOOD	REMAIN
26	White Oak (Quercus alba)	30.0"	DEAD	REMAIN
27	Unknown	25.8"	DEAD	REMAIN
28	Pignut Hickory (Carya glabra)	24.0"	GOOD	REMAIN
29	White Oak (Quercus alba)	28.3"	GOOD	REMAIN
30	White Oak (Quercus alba)	28.1"	GOOD	REMAIN
31	White Oak (Quercus alba)	29.8"	DEAD	REMAIN
32	White Oak (Quercus alba)	28.0"	GOOD	REMAIN
33	White Oak (Quercus alba)	35.5"	GOOD	REMAIN
34	White Oak (Quercus alba)	25.4"	GOOD	REMAIN
35	White Oak (Quercus alba)	34.4"	GOOD	REMAIN
36	White Oak (Quercus alba)	33.1"	GOOD	REMAIN
37	White Oak (Quercus alba)	35.1"	GOOD	REMAIN
38	White Oak (Quercus alba)	24.0"	GOOD	REMAIN
39	White Oak (Quercus alba)	37.4"	GOOD	REMAIN
40	White Oak (Quercus alba)	36.8"	GOOD	REMAIN
41	White Oak (Quercus alba)	42.1"	POOR	REMAIN
42	Pignut Hickory (Carya glabra)	27.2"	GOOD	REMOVE
43	White Oak (Quercus alba)	25.6"	GOOD	REMAIN
44	White Oak (Quercus alba)	25.0"	DEAD	REMAIN
45	White Oak (Quercus alba)	46.9"	DEAD	REMOVE
46	Northern Red Oak (Quercus rubra)	30.5"	GOOD	REMOVE
47	White Oak (Quercus alba)	26.6"	GOOD	REMOVE
48	White Oak (Quercus alba)	32.3"	GOOD	REMOVE
49	White Oak (Quercus alba)	36.4"	GOOD	REMOVE
50	White Oak (Quercus alba)	28.9"	GOOD	REMOVE
51	White Oak (Quercus alba)	26.5"	GOOD	REMOVE
52	White Oak (Quercus alba)	31.6"	GOOD	REMOVE
53	White Oak (Quercus alba)	50.0"	GOOD	REMOVE
54	White Oak (Quercus alba)	37.6"	GOOD	REMAIN
55	White Oak (Quercus alba)	27.0"	GOOD	REMOVE
56	White Oak (Quercus alba)	34.0"	DEAD	REMOVE
57	White Oak (Quercus alba)	33.1"	DEAD	REMOVE
58	White Oak (Quercus alba)	39.4"	GOOD	REMOVE
59	White Oak (Quercus alba)	41.1"	GOOD	REMOVE
60	White Oak (Quercus alba)	30.7"	GOOD	REMOVE
61	White Oak (Quercus alba)	27.0"	DEAD	REMOVE
62	White Oak (Quercus alba)	40.4"	POOR	REMOVE
63	White Oak (Quercus alba)	39.4"	GOOD/TWIN	REMAIN
64	White Oak (Quercus alba)	40.7"	GOOD	REMOVE
65	White Oak (Quercus alba)	26.3"	DEAD	REMOVE
66	White Oak (Quercus alba)	27.9"	GOOD	REMAIN
67	White Oak (Quercus alba)	32.0"	GOOD	REMOVE
68	White Oak (Quercus alba)	30.5"	GOOD	REMOVE
69	White Oak (Quercus alba)	26.5"	GOOD	REMOVE
70	Unknown	25.4"	DEAD	REMOVE
71	White Oak (Quercus alba)	26.7"	POOR	REMOVE
72	White Oak (Quercus alba)	29.9"	GOOD	REMOVE
73	White Oak (Quercus alba)	29.2"	GOOD	REMOVE
74	White Oak (Quercus alba)	31.6"	GOOD	REMOVE
75	White Oak (Quercus alba)	30.1"	GOOD	REMOVE
76	White Oak (Quercus alba)	24.1"	GOOD/TWIN	REMOVE
77	White Oak (Quercus alba)	39.7"	GOOD	REMOVE
78	White Oak (Quercus alba)	35.6"	FAIR	REMOVE
79	White Oak (Quercus alba)	27.4"	GOOD	REMOVE
80	White Oak (Quercus alba)	24.5"	DEAD	REMAIN
81	White Oak (Quercus alba)	24.0"	GOOD	REMAIN
82	White Oak (Quercus alba)	30.0"	GOOD	REMAIN
83	White Oak (Quercus alba)	28.0"	GOOD	REMAIN
84	White Oak (Quercus alba)	24.0"	GOOD	REMAIN
85	White Oak (Quercus alba)	34.0"	GOOD	REMAIN
86	White Oak (Quercus alba)	30.0"	GOOD	REMAIN
87	White Oak (Quercus alba)	24.0"	DEAD	REMAIN
88	White Oak (Quercus alba)	35.3"	GOOD	REMOVE
89	White Oak (Quercus alba)	30.3"	GOOD	REMAIN
90	White Oak (Quercus alba)	32.0"	GOOD	REMAIN
91	White Oak (Quercus alba)	27.0"	GOOD	REMAIN
92	White Oak (Quercus alba)	33.3"	GOOD	REMAIN
93	White Oak (Quercus alba)	36.0"	POOR	REMAIN
94	Sargent Cherry (Prunus sargentii)	36.7"	GOOD	REMAIN
95	White Oak (Quercus alba)	27.0"	GOOD	REMAIN
96	White Oak (Quercus alba)	34.6"	POOR	REMOVE
97	White Oak (Quercus alba)	39.5"	FAIR	REMOVE
98	Black Walnut (Juglans nigra)	32.0"	GOOD	REMOVE
99	Red Maple (Acer rubrum)	53.5"	GOOD	REMAIN
100	Black Walnut (Juglans nigra)	30.4"	GOOD	REMAIN
101	White Oak (Quercus alba)	35.5"	GOOD	REMAIN
102	Norway Spruce (Picea abies)	24.0"	GOOD	REMAIN
103	Eastern Red Cedar (Juniperus virginiana)	32.3"	GOOD	REMAIN
104	Eastern Red Cedar (Juniperus virginiana)	25.7"	GOOD	REMAIN
105	Black Locust (Robinia pseudoacacia)	35.5"	GOOD	REMAIN
106	Black Walnut (Juglans nigra)	29.2"	POOR	REMAIN
107	Black Walnut (Juglans nigra)	36.2"	POOR	REMAIN
108	Black Walnut (Juglans nigra)	39.8"	POOR	REMAIN
109	Black Walnut (Juglans nigra)	46.6"	FAIR	REMOVE

DEVELOPER'S CERTIFICATE

The undersigned agrees to execute all the features of Approved Final Forest Conservation Plan No. 820210120, including financial bonding, forest planting, maintenance, and all other applicable agreements.

Developer's Name: Johns Hopkins University, Facilities and Real Estate
Printed Company Name

Contact Person or Owner: Mitch Bonanno, Chief Real Estate Officer
Printed Name

Address: 3910 Keswick Road, Suite N3100 Baltimore, MD 21211
Phone and Email: 443-997-1694 mbonanno@jhu.edu

Signature: *Mitch Bonanno*

JOHNS HOPKINS UNIVERSITY, FACILITIES AND REAL ESTATE
C/O MITCH BONANNO, CHIEF REAL ESTATE OFFICER
3910 KESWICK ROAD, SUITE N3100
BALTIMORE, MD 21211

JOHNS HOPKINS HEALTH SYSTEM - FACILITIES
ATTN: SALLY MACCONNELL
1812 ASHLAND AVENUE, SUITE 400
BALTIMORE, MD 21205

Pennoni
Pennoni
Engineers, Surveyors, Planners, Landscape Architects.
8800 McGaw Road, Suite 100 Columbia, MD 21045
T 410-997-5900 F 410-997-9282

No.	REVISION	DATE BY
1	AMENDMENT 820210120 TO ADJUST FOREST CONSERVATION	9/28/22 JLC

FINAL FOREST CONSERVATION NOTES
JOHNS HOPKINS MEDICAL OFFICE & SURGERY CENTER AT BELWARD

TAX MAP FS31 PARCEL N500
9951 KEY WEST AVENUE
ROCKVILLE, MD 20850

9TH ELECTION DISTRICT
MONTGOMERY COUNTY, MARYLAND

SEAL

BY: *[Signature]*

PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED REGISTERED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NO. 3088. EXPIRATION DATE: 10-10-2027.

Pennoni

DESIGNED: JSN
DRAWN: JSN
DATE: 9/1/2022
SCALE: AS SHOWN

FILE NO: JHOPU20001
SHEET: 8 OF 13