

STANDARD WOODLAND CONSERVATION WORKSHEET FOR PRINCE GEORGE'S CO	OUNTY			
SECTION 1 - Establishing Site Information				
Zone:	R-80			
Gross Tract:	22.53			
Floodplain:	0.00			
Previously Dedicated Land:	0.00			
Net Tract (NTA):	22.53	0.00	0.00	
TCD1 Number	TCP2			7
Property Description Or Subdivision Name:	Alder Energy			-
Is This Site Subject To The 1989 Ordinance?	Ν			
Is This Site Subject To The 1991 Ordinance?	N			
Subject To The 2010 Ordinance and in DEA (Driarity Euroding Area)				
Subject To The 2010 Ordinance and In PFA (Phonty Funding Area)				
Are there prior TCP approvals which include a combination of this lot/s2 (V or N)				
Is there any portion of the property in a WC Bank? (Y or N)	N N			
Break-even Point (preservation acres):	7.97 acres			
Clearing permitted w/o reforestation:	13.87 acres			
SECTION II - Determining Woodland Conservation Requirements:				
	Column A	Column B	Column C	Column D
	WC1/AF1%	Net Tract	Floodplain (1:1)	Off-Site
Existing Woodland		21 84	0.00	
Woodland Conservation Threshold (WCT) =	20.00%	4 51	0.00	
Smaller Of 17 or 18	20.0070	4 51		
Woodland Above WCT	ľ	17.33		
Woodland cleared	-	10.98	0.00	0.00
Woodland cleared above WCT (smaller of 16 or 17)	ľ	10.98		1
Clearing above WCT (0.25:1) replacement requirement	-	2.75		
Woodland Cleared below WCT:	ľ	0.00		
Clearing below WCT (2:1 replacement requirement)	ľ	0.00		
Afforestation Required Threshold (AFT) =	15.00%	0.00		
Off-site WCA being provided on this property (preservation)		0.00		
Woodland Conservation Required:		7.25 acres		
SECTION III - Meeting the Requirements			1	
	-	6.77	-	
Attorestation/Reforestation	-	0.12	-	
Natural Regeneration	-	0.39	-	
Landscape Credits		0.00		
	0.00	0.00	-	
Forest Enhancement Credit (area *0.25)	0.00	0.00		
Street Tree Credit (Existing or 10-year canopy)	-	0.00		[
Area approved for tee-in-lieu	-	0.00	Fee amount:	
Off site Woodland Conservation Credits Required	-	0.00		
Off-site WCA (preservation) being provided on this property	-	0.00		
Un-site WCA (afforestation) being provided on this property		0.00		
		7.28 acres	J	
Area of woodland not cleared	10 86 acres			
Net tract woodland retained not part of requirements:	4 N9 acres			
100-floodplain woodland retained	0.00 acres			
On-site woodland conservation provided	7 28 acres			
	0.00 00000			
	4.09 acres			
PREPARED BY: Mike Petrakis				
License Number: Qualified Professional				

Note: Woodlands preserved, planted or regenerated in fulfillment of woodland conservation requirements on-site have been placed in a woodland and wildlife habitat conservation easement recorded in the Prince George's County Land Records at Book 43839 Page 416. Revisions to this TCP2 may require a revision to the recorded easement.

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Column B Colum Net Tract Flood	n C <u>Column D</u> Dain Off-Site		VICIN	$\prod_{i'} \prod_{j=1}^{N} MAP$
21 84	I) Impacts (1:1)		ADC MAP	BOOK: 45 B-3/4
4.51			WSSC 200'S	SHE'E'T: 210/211SE05
4.51 17.33		<u>LEG</u> EN	<u>ID</u>	
10.98 0.0	0.00	PROPERT	Y BOUNDARY	
2.75		EX. CONT	OUR (2')	
0.00		EX. CONT	OUR (10')	
0.00		PROP CO		
7.25 acres				
6.77				
0.12	L	AREA (PM		
0.00		REGULATI (CENTERI	ED STREAM .INE)	·
0.00		STREAM E	, BUFFER (50')	SB
0.00 Fee amo	unt:	NONTIDAL	WETLAND	wL
0.00		EX. WETL/	AND	
0.00		BUFFER (2	25')	··- —
7.28 acres		TREE PRC (TEMPORA	DTECTION FENCE ARY)	TPF
		TREE PRC		PPF
		(PERMANE	ENT)	
		WOODLAN AREA (WP	ND PRESERVATION PA)	
		WOODLAN	ND RETAINED -	
		NOT CREE	DITED (WR-NC)	
		NATURAL AREA (NR	REGENERATION A)	2009
		WOODI AN	ND REFORESTATION/	
		AFFORES	TATION AREA (WRA)	$\times\!\!\times\!\!\times\!\!\times$
		SPECIME	N TREE TO BE	$\langle \cdot \rangle$
		SAVED		ST-1
		WOODLAN	ND	
		PRESERV	ATION SIGN	_
		REFORES AFFORES	TATION/ TATION SIGN	●
	General Inform	ation Table		]
Layer Category	Layer Name		Value R-80 (One-Family	-
Zone	Zoning (Zone)		Detatched Residential)	4
Administrative	Tax Grid (TMG)	ч <i>т</i> ү	N/A	-
Administrative	WSSC Grid (Sheet 20	)	211SE05	1
	Planning Area (Plan A	.rea)	5-81A	-
Administrative				1
Administrative Administrative	Election District (ED)	I	Surratts (9)	
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Si	te Statistics Table
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<u>T-1</u>		
July 9, 2020 DATE		
Mike Petrakis Qualified Professional COMAR 08.19.06.01	DATE	DESCRIPTION REVISIONS
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OWNER BARDON INC. 6211 ANN ARBOR ROAD DUNDEE, MI 48131

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APPLICANT ALDER ENERGY SYSTEMS, LLC 495 JESSEN LANE CHARLESTON, SC 29492 ATTEN: DONALD ZIMMERMAN



We <b>Bardon Inc.</b> hereby acknowledge that we are aware of this Type 2 Tree Conservation Plan (TCP2) and that we understand the requirements as set forth in this TCP2.				
	07/06/2020			
Owner or Owners Representative: Cedriic Barthelemy	Date			
Title: President				
I/We hereby acknowledge that w	e are aware of this Type 2			
Tree Conservation Plan (TCP2) and that we understand the requirements as set forth in this TCP2.				
Contract Purchaser	Date			

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	TELEPHONE (301) 430-2000 BEN DYER ASSOCIATES INC

DRAWN BY: DESIGNED BY: CHECKED BY: RECORD NO.

<sup>E:</sup> 1"=30'

JUNE 2019

BY <sup>s</sup>

J-B18077

54.003-Z

## MATCH LINE " A-A ", SEE SHEET T-2



We Bardon Inc. hereby acknowledge that we are aware of this Type 2 Tree Conservation Plan (TCP2) and that we understand the requirements as set forth in this TCP2. 07/06/2020 -6 Owner or Owners Representative: Cedriic Barthelemy Date Title: President I/We \_\_\_\_\_ hereby acknowledge that we are aware of this Type 2 Tree Conservation Plan (TCP2) and that we understand the requirements as set forth in this TCP2.

Date

Contract Purchaser

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TAX PARCEL 275 SURRATTS DISTRICT No. 9 PRINCE GEORGE'S COUNTY, MARYL

**GRAPHIC SCALE** 

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Mike Petrakis Qualified Professional COMAR 08.19.06.01	DATE	DESCRIPTION
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OWNER BARDON INC. 6211 ANN ARBOR ROAD DUNDEE, MI 48131

APPLICANT ALDER ENERGY SYSTEMS, LLC 495 JESSEN LANE CHARLESTON, SC 29492 ATTEN: DONALD ZIMMERMAN

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We Bardon Inc. hereby acknowledge that we are aware of this Type 2			
Tree Conservation Plan (TCP2) and that we understand the requirements as set forth in this	TCP2.		
	07/06/2020		
Owner or Owners Representative: Cedriic Barthelemy	Date		
Title: President			
We hereby acknowledge that we are aware of this Type 2			
Free Conservation Plan (TCP2) and that we understand the requirements as set forth in this TCP2.			
Contract Purchaser	Date		

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# TREE CONSERVATION PLAN - TYPE 2 KIRBY ROAD SOLAR, LLC

TAX PARCEL 275 SURRATTS DISTRICT No. 9 PRINCE GEORGE'S COUNTY, MARYLAND

GRAPHIC SCALE 30'

OWNER BARDON INC. 6211 ANN ARBOR ROAD DUNDEE, MI 48131

APPLICANT ALDER ENERGY SYSTEMS, LLC 495 JESSEN LANE CHARLESTON, SC 29492 ATTEN: DONALD ZIMMERMAN



## GENERAL NOTES

for #MR1823F.

- 1. This plan is submitted to fulfill the woodland conservation requirements
- 2. 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 \$9.00 per square foot mitigation fee.
- 3. A pre-construction meeting is required prior to the issuance of grading permits. The Department of Permits, Inspection and Enforcement, shall be contracted prior to the start of any work on the site to conduct a pre-construction meeting where implementation of woodland conservation measures shown on this plan will be discussed in detail.
- 4. The developer shown on this plan shall notify future buyers of any woodland conservation areas through the provision of a copy of this plan at time of contract signing. Future property owners are also subject to this requirement.
- 5. The owners of the property subject to this tree conservation plan are solely responsible for conformance to the requirements contained herein.
- 6. The property is within Environmental Strategy Area, ESA-2 and is zoned R-80 (One-Family Detatched Residential).
- 7. The site is not adjacent to a roadway designated as scenic, historic, a parkway or a scenic byway.
- 8. The property is located in the vicinity of (approx. 700') to Temple Hill Road, a master planned arterial roadway.
- 9. This plan is not grandfathered under CB-27-2010, Section 25-177(g).
- WOODLAND PRESERVATION AND RETENTION NOTES
- 10. All woodlands designated on this plan for preservation are the responsibility of the property owner. The woodland areas shall remain in a natural state. This includes the canopy trees and understory vegetation. A revised tree conservation plan is required prior to clearing woodland areas that are not specifically identified to be cleared on the approved TCP2
- 11. Tree and woodland conservation methods such as root pruning shall be conducted as noted on this plan.
- 12. The location of all temporary tree protection fencing (TPFs) shown on this plan shall be flagged or staked in the field prior to the pre-construction meeting. Upon approval of the locations by the county inspector, installation of the TPFs may begin.
- 13. All temporary tree protection fencing required by this plan shall be installed prior to the commencement of clearing and grading of the site and shall remain in place until the bond is released for the project. Failure to install and maintain temporary or permanent tree protective devices is a violation of this TCP2.
- 14. Woodland preservation areas shall be posted with signage as shown on the plans at the same time as the temporary TPF installation. These signs must remain in perpetuity.
- 15. The developer and/or builder is responsible for the complete preservation of all forested areas shown on the approved plan to remain undisturbed. Only trees or part thereof designated by the county as dead, dying, or hazardous may be removed.
- 16. A tree is considered hazardous if a condition is present which leads a Certified Arborist or Licensed Tree Expert to believe that the tree or a portion of the tree has a potential to fall and strike a structure, parking area, or other high use area and result in personal injury or property damage
- 17. During the initial stages of clearing and grading, if hazardous trees are present, or trees are present that are not hazardous but are leaning into the disturbed area, the permitee shall remove said trees using a chain saw. Corrective measures requiring the removal of the hazardous tree or portions thereof shall require authorization by the county inspector. Only after approval by the inspector may the tree be cut by chain saw to near the existing ground level. The stump shall not be removed or covered with soil, mulch or other materials that would inhibit sprouting.
- 18. If a tree or trees become hazardous prior to bond release for the project, due to storm events or other situations not resulting from an action by the permitee, prior to removal, a Certified Arborist or a Licensed Tree Expert must certify that the tree or the portion of the tree in question has a potential to fall and strike a structure, parking area, or other high use area and may result in personal injury or property damage. If a tree or portions thereof are in imminent danger of striking a structure, parking area, or other high use area and may result in personal injury or property damage then the certification is not required and the permitee shall take corrective action immediately. The condition of the area shall be fully documented through photographs prior to corrective action being taken. The photos shall be submitted to the inspector for documentation of the damage.
- If corrective pruning may alleviate a hazardous condition, the Certified Arborist or a Licensed Tree Expert may proceed without further authorization. The pruning must be done in accordance with the latest edition of the appropriate ANSI A-300 Pruning Standards. The condition of the area shall be fully documented through photographs prior to corrective action being taken. The photos shall be submitted to the inspector for documentation of the damage.
- Debris from the tree removal or pruning that occurs within 35 feet of the woodland edge may be removed and properly disposed of by recycling, chipping or other acceptable methods. All debris that is more than 35 feet from the woodland edge shall be cut up to allow contract with the ground, thus encouraging decomposition. The smaller materials shall be placed into brush piles that will serve as wildlife habitat.
- Tree work to be completed within a road right-of-way requires a permit from the Maryland Department of Natural Resources unless the tree removal is shown within the approved limits of disturbance on a TCP2. The work is required to be conducted by a Licensed Tree Expert.
- AFFORESTATION AND REFORESTATION NOTES
- 1. All afforestation/reforestation bonding, based on square footage, shall be posted with the county prior to the issuance of any permits. These bonds will be retained as surety until all required activities have been satisfied or the required timeframe for maintenance has passed, whichever is longer.
- 2. The planting of afforestation or reforestation areas shall be completed prior to the issuance of the first building permit. (This standard note may be modified as necessary to address which building permits are adjacent to the proposed planting areas.) Seedling planting is to occur from November through May only. No planting shall be done while ground is frozen. Planting with large caliper stock or containerized stock may be done at any time provided a detailed maintenance schedule is provided.
- 3. If planting cannot occur due to planting conditions, the developer or property owner shall install the fencing and signage in accordance with the approved Type 2 Tree Conservation Plan. Planting shall then be accomplished during the next planting season. If planting is delayed beyond the transfer of the property title to the homeowner, the developer or builder shall obtain a signed statement from the purchaser indicating that they understand that the reforestation area is located on their property and that reforestation will occur during the next planting season. A copy of that document shall be presented to the Grading Inspector and the county.
- 4. Reforestation areas shall not be mowed. The management of competing vegetation around individual trees and the removal of noxious, invasive, and non-native vegetation within the reforestation areas is acceptable.
- 5. All required temporary tree protection fencing shall be installed prior to the clearing and grading of the site and shall remain in place until the permanent tree protection fencing is installed with the required planting. The temporary fencing is not required to be installed if the permanent fencing is installed prior to clearing and grading of the site. Failure to install and maintain temporary or permanent tree protective fencing is a violation of this TCP2.
- Afforestation/reforestation areas shall be posted with notification signage, as shown on the plans, at the same time as the permanent protection fencing installation. These signs shall remain in perpetuity.
- 7. The county inspector shall be notified prior to soil preparation or initiation of any tree planting on this site.
- 3. At time of issuance of the first permit, the following information shall be submitted to the M-NCPPC Planning Department regarding the contractor responsible for implementation of this plan; contractor name; business name (if different); address; and phone number. Results of annual survival checks for each of the required four years after tree planting shall be reported to the M-NCPPC, Planning Department.
- 9. Failure to establish the afforesation or reforestation within the prescribed time frame will resulting the forfeiture of the reforestation bond and/or a violation of this plan including the associated \$9.00 per square foot penalty unless the county inspector approves a written extension.

## PLANTING SPECIFICATION NOTES

- 1. Quantity: (See Plant Schedule)
- 2. Type: (See Plant Schedule)
- 3. Plant Quality Standards: The plants selected shall be healthy and sturdy representatives of their species. Seedlings shall have a minimum top growth of 18". The diameter of the root collar (the part of the root just below ground level) shall be at least 3/8". The roots shall be well developed and at least 8" long, no more than twenty-five percent (25%) of the root system (both primary and auxiliary/fibrous roots) shall be present.
- Plants that do not have an abundance of well developed terminal buds on the leaders and branches shall be rejected.
- Plants shall be shipped by the nursery immediately after lifting from the field or removal from the green house, and planted immediately upon receipt by the landscape contractor.
- If the plants cannot be planted immediately after delivery to the reforestation site, they shall be stored in the shade with their root masses protected from direct exposure to sun and wind by the use of straw, peat moss, compost, or other suitable material and shall be maintained through periodic watering, until the time of planting.
- 4. Planting Handling: The quantity of seedlings taken to the field shall not exceed the quantity that can be plated in a day. Seedlings, once removed from the nursery or temporary storage area shall be planted immediately.
- 5. Timing of Planting: The best time to plant seedlings is while they are dormant, prior to spring budding. The most suitable months for planting are March and April, when the soil is moist, but may be planted from March through November. No planting shall be done while ground is frozen. Planting shall occur within one growing season of the issuance of grading/building permits and/or reaching the final grades and stabilization of planting areas.
- 6. Seedling Planting: Tree seedlings shall be hand planted using a dibble bar or sharp-shooter shovel. It is important that the seedling be placed in the hole so that the roots can spread out naturally; they should not be twisted, balled up or bent. Moist soil should then be packed firmly around the roots. Seedlings should be planted at a depth where their roots lie just below ground surface. Air pockets should not be left after closing the hole which would allow the roots to dry out. See planting details for further explanation. If the contractor wishes to plant by another method, the preparer of this tree conservation plan must be contracted and give his approval before planting may begin.
- . Spacing: See Plant Schedule and/or Planting Plan for spacing requirements. Also refer to the Planting Layout detail for a description of the general planting
- 8. Soil: Upon the completion of all grading operations, a soil test shall be conducted to determine what soil preparation and soil amendments, if any, are necessary to create good tree growing conditions. Soil samples shall be taken at a rate that provides one soil sample for each area that appears to have a different soil type (if the entire area appears uniform, then only one sample is necessary), and submitted for testing to a private company. The company of choice shall make recommendations for improving the existing soil. The soil will be tested and recommended for corrections of soil texture, pH, magnesium, phosphorus, potassium, calcium and organic matter.
- 9. Soil Improvement Measures: The soil shall then be improved according to the recommendations made by the testing company.
- 10. Fencing and Signage: Final protective fencing shall be placed on the visible and/or development side of planting areas. The final protective fence shall be installed upon completion of planting operation unless it was installed during the initial stages of development. Signs shall be posted per the signage detail on this sheet.
- 11. Planting method: Consult the Planting Detail(s) shown on this plan.
- 12. Mulching: Apply two-inch thick layer of woodchip or shredded hardwood mulch (as noted) to each planting site (see detail shown on this plan).
- 13. Groundcover Establishment: The remaining disturbed area between seedling planting site shall be seeded and stabilized with white clover seed at the rate of 5 lbs/acre.
- 14. Mowing: No mowing shall be allowed in any planting area.
- 15. Survival Check for Bond Release: The seedling planting is to be checked at the end of each year for four years to assure that no less than 75% of the original planted quantity survives. If the minimum number has not been provided the area must be supplemented with additional seedlings to reach the required number at time of planting.

### NATURAL REGENERATION NOTES

- 1. All existing turf, ground covers, and invasive species shall be exterminated using a general broadcast herbicide such as Round-Up or equivalent. Secondary applications shall be applied as necessary.
- Care shall be taken to avoid spraying any hardwood seedlings or saplings.
- 3. Roto-tilling of turf areas and manual removal of invasive vines shall be completed two weeks after chemical treatments are completed.
- 4. Reforestation signs shall be installed every fifty feet or as appropriate and two strand wire fencing shall be installed along road frontages adjacent to any reforestation areas.
- 5. Reforestation internal to the site shall be posted as required in the direction of any trails used to reach those areas.
- 6. Natural regeneration shall be encouraged by semi-annual maintenance of the designated areas. The maintenance shall, at a minimum, require removal of competitive and invasive species from the desired indigenous hardwoods. This maintenance shall occur for a period of two years.
- 7. After one and two years all desirable seedlings and saplings shall be counted and flagged with surveyors tape in the late fall.
- 8. If after two years there is less than one seedling per 60 square feet and there are indications that natural regeneration is not occurring adequately then the owners shall plant those areas with container grown seedlings at a rate of one per 60 square feet. Only naturally occurring species already present within the site shall be used.

## We Bardon Inc. hereby acknowledge that we are aware of this Type 2 Tree Conservation Plan (TCP2) and that we understand the requirements as set forth in this TCP2. 07/06/2020 Owner or Owners Representative: Cedriic Barthelemy Date

hereby acknowledge that we are aware of this Type 2 Tree Conservation Plan (TCP2) and that we understand the requirements as set forth in this TCP2.

Contract Purchaser

Title: President

Date

## August min.)

## POST DEVELOPMENT NOTES

permitted.

decomposition.







COMMON NAME

SIZE

1. All tree/shrub species planted within the re/afforestation areas, should be

**BOTANICAL NAME** 

QUANTIT

randomly distributed throughout the proposed re/afforestation area, so as to promote a natural woodland structure. (See Planting Layout detail) 2. In the event of species unavailability, a substitution may be made. Any substitution made requires written notification to MNCPPC, Environmental Planning Section.



- DO NOT CUT LEADER \_\_\_\_\_\_ 180° GROMMETTED NYLON STRAPPING W/ 10 GUAGE GUY WIRE TWIST UNTIL TAUGHT (SEE N体下) PLAN VIEW 2-2" X 2" X 6' MIN. HARDWOOD STAKES DRIVEN INTO UNDISTURBED GROUND OUTSIDE OF TREE PIT AREA (SEE NOTE SET 1/8 OF ROOTBALL ABOVE INISHED GRAD 2-3" SAUCER WITH 2-3" SHREDDED GRADE HARDWOOD MULCH CUT AND REMOVE BURLAP FROM TOP 1/3 OF ROOTBALL - BACKFILL SOIL MIX (SEE SPECS) 

NO SCALE SECTION FOR TREES LESS THAN 12' H \* NOTE: STAKES, STRAPPING AND WIRES TO BE REMOVED SIX MONTHS AFTER INSTALLATION EVERGREEN TREE PLANTING DETAIL



SIX MONTHS AFTER INSTALLATION DECIDUOUS, B & B TREE PLANTING DETAILS

REVISIONS ATTEN: DONALD ZIMMERMAN

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