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July 17, 2019
Loretta Taylor, Chairman
Town of Cortlandt Planning Board
Town Hall, 1 Heady Street
Cortlandt Manor, NY 10567

Re: Croton Avenue Solar Project (fka Hanover Estates) 200 Croton Avenue Site Development Plan

Dear Chairman Taylor and Members of the Planning Board:

The above referenced project was introduced and discussed at the May 07, 2019 Planning Board meeting. Since the meeting we met with Town Staff on June 25, 2019 to discuss the memorandum from the Director of Technical Services dated May 30, 2019 as well as the conversations with the Planning Board from the May 07 meeting.

The following is an annotated response to the May 30, 2019 memorandum:

1. Address in writing all permitting requirements for Tier 3 solar energy systems in accordance with Town Code Chapter 255-8. In particular tree removal and decommissioning.

Response: The permitting requirements for Tier 3 solar energy systems, including the decommissioning plan, are included in the Croton Avenue Solar Project Supplemental Report enclosed in this application.

- 2. Insufficient details are provided for the installation of the solar arrays. Items such as footing details, height of array, spacing, conduit and equipment location are not provided.
 - a. Provide a re-grading plan showing existing vs proposed topography in 2-ft intervals.
 - b. Demonstrate cut and fill is balanced onsite.

Response: The installation and dimensional details and structure locations are provided on the plans. The existing topography is provided on the plans. There is no proposed grading or regrading and therefore no cut and fills

3. A Comprehensive Storm Water Pollution Prevention Plan in accordance with Town Code Chapter 262 and the NYSDEC Storm Water Design Manual Shall be provided. Note, portions of the proposed land disturbance activities are in the East of Hudson Watershed. Chapter 10 of the NYSDEC Manual for enhanced phosphorus removal shall be required. Controls shall be provided for both water quality and quantity. Attached is guidance documentation provided by the NYSDEC. Response:

There is only 4,650 square feet of disturbance associated with this project located in the NYCDEP watershed and therefore no approval from the NYCDEP is required. The disturbance involves the tree and stump removal for 42 trees.

a. A SPDES General Permit for Construction Activity shall be obtained.

Response:

A SPDES General Permit for Construction Activity will be obtained from the NYSDEC and will only involve a basic SWPPP consisting of erosion and sediment controls.

b. A construction sequencing plan shall be provided. If more than 5-acres is proposed for disturbance at any one time a waiver shall be required.

Response:

A construction sequencing plan will be provided on the plans and in the SWPPP.

i. Clarification is required for total land disturbance.

Response:

Total land disturbance has been calculated at 4.81 acres. The disturbance areas include the removal of existing buildings and asphalt. Disturbance also includes the areas where trees are to be removed and grubbed. Areas where trees are to be felled and the stumps left in place are not considered disturbance.

c. Provide an erosion and sedimentation control plan.

Response:

A basic SWPPP consisting of erosion and sediment controls will be provided prior to the Public Hearing. The current plans have an erosion and sedimentation control plan shown.

d. Provide a detail for a limited use pervious access road. Sample attached.

Response:

Details pertaining to the limited use pervious road is provided on the plans.

i. Provide an access road profile stationed with centerline elevations provided in intervals not to exceed 25-ft.

Response:

A profile with 25-foot stations of the proposed limited use access road is provided on the plans.

e. Revise page 6 of the EAF as it pertains to stormwater.

Response: Page 6 of the Full EAF has been revised.

Guidance is provided to allow for disconnected treatment and conveyance of arrays which is directly related to slope, underlying soil characteristics and spacing. Plans shall be revised to incorporate storm water best management practices and conveyance.

Response: The NYSDEC Division of Water has developed a guidance memorandum dated June 03, 2019 with respect to solar panel projects. The NYSDEC

considers solar panel projects designed and constructed according to the memorandum to be a "land clearing and grading for the purposes of creating vegetated open space (i.e. recreational parks, lawns, meadows, fields". As such and pursuant to Table 1, Appendix B of the Construction General Permit requires a SWPPP for this type of project will need to address erosion and sediment controls only.

The plans contain an erosion and sediment control plan as well as an analysis of the criteria both required provided in the above noted NYSDEC memorandum.

4. Revise page 8 of the EAF as it relates to noise. Ambient levels will be exceeded. Applicant shall clarify what is the maximum onsite noise level in dBA and at the property line. Applicant shall demonstrate compliance with Town Code Chapter 197.

Response:

The EAF has not been revised as it relates to noise because ambient noise levels are not expected to be exceeded. A demonstration of compliance with Town Code Chapter 197 is provided in the Croton Avenue Solar Project Supplemental Report enclosed in this application.

5. A dimensional bulk zoning table shall be provided on the plan set.

Response: A bulk dimensional bulk zoning table is provided on the plans.

6. The Applicant shall incorporate the recommendations previously made by the Town's Environmental Consultant for the Hanover Estates 27 Lot Subdivision as it pertains to wetlands mitigation and enhancements.

Response:

The prior approved wetland mitigation planting schedule is provided on these plans. At wetland mitigation statement demonstrating compliance with Town Code Chapter 179 is provided in the Croton Avenue Solar Project Supplemental Report enclosed in this application.

7. A tree removal permit will be required. Operations onsite will necessitate the removal of trees. Applicant is referred to Chapter 283 – Trees. A tree removal and preservation plan shall be submitted. Since site was inventoried recently, the Town's Consultant Arborist will be retained to qualitatively assess the site and comment on proposed plan.

Response:

A Tree Removal Plan and inventory assessment is currently underway, and the report will be submitted prior to the Public Hearing for review by Staff. The report will identify the trees to be removed and assess each tree in terms of health, condition, and meaningfulness. The report's findings will then be used in determining the proposed landscaping and reforestation plan. An inventory of existing trees has been provided in the Croton Avenue Solar Project Supplemental Report enclosed in this application. See #8 below.

8. Applicant shall submit a landscape plan consistent with the requirements of Town Code Chapter 307, Article VII. Plans will be referred to the Town's Conservation Advisory Council for comment. Native plantings shall be incorporated into the plan. The re-planting plan shall be a component of the wetland mitigation plan.

Response:

The current plans provide the mitigation plantings as approved for the Hanover Estates project. This includes the wetland mitigation plantings in the areas where impervious cover is being removed within the wetland buffer. Also, there will be the north property line mitigation plantings to supplement the existing trees along the northern section of the property adjoining Apple Hill Estates.

In addition, the current plan provides a tree planting plan that consists of planting 40 indigenous trees. Upon completion of the above described tree removal plan and inventory assessment, the proposed plantings may be revised.

9. Demonstrate compliance to the IFC 2015 "Fire Code" and NYS Supplements for proposed buildings and service sub-stations. The revised site plan shall be circulated to the Director of Code Enforcement, Senior Fire Inspector and local Fire Chief for comment.

Response:

A demonstration of compliance to the IFC 2015 "Fire Code" and NYS Supplements for proposed buildings and service sub-stations has been prepared by Croton Solar, LLC and provided in the Croton Avenue Solar Project Supplemental Report enclosed in this application.

10. Applicant shall submit a Steep Slope Findings Statement (Chapter 259) and Wetlands Mitigation Plan (Chapter 179).

Response:

A Steep Slopes Findings Statement has been prepared by this office and included in the Croton Avenue Solar Project Supplemental Report enclosed in this application.

11. Provide all correspondence submitted to Con Edison related to the solar study as it pertains to utility upgrades and ability of distribution system to accommodate the development.

Response:

Continuing correspondence between Croton Solar, LLC and Con Edison pertaining to the ongoing Coordinated Electric System Interconnection Review (CESIR) has been provided in the Croton Avenue Solar Project Supplemental Report enclosed in this application. Additional documentation will be provided before the public hearing after the completion of the CESIR.

12. Submit a construction cost estimate.

Response:

A construction cost estimate has been prepared by Croton Solar, LLC and included in the Croton Avenue Solar Project Supplemental Report enclosed in this application.

In addition to the above and pursuant to the meeting with Staff on June 25, 2019, the application package also includes an executive summary, a tree removal statement, a wetland mitigation statement, solar inverter specifications, a preliminary assessment of existing trees to be removed, KnoxBox specifications, and a Biodiversity and Natural Resource Assessment. These documents can be found in the Croton Avenue Solar Project Supplemental Report enclosed in this application.

As we understand that there is no Planning Board meeting in August, we will submit the SWPPP and Tree Removal and Assessment Report in August. We would like to have this application placed on the July 27, 2019 Planning Board agenda for discussion and subsequently scheduled for a Public Hearing at the September 2019 Planning Board meeting. We will submit the Tree Removal and Assessment Report and the Stormwater Pollution Prevention Plan (SWPPP) for review by Staff prior to the September Public Hearing.

In support of this application, find enclosed the following information:

- 1. 2 copies of the SWPPP, to be provided by August 21, 2019.
- 2. 2 copies of the Tree Removal / Assessment Report, to be provided by August 21, 2019.
- 3. 14 copies of the revised Site Plan (2 full size and 12 11"x17").
- 4. 2 copies of the revised Full Environmental Assessment Form.
- 5. 10 copies of the Croton Avenue Solar Project Supplemental Report, containing:
 - Executive Summary
 - Permitting Requirements for Tier 3 Solar Energy Systems
 - · Decommissioning Plan
 - Noise Ordinance Compliance
 - Tree Removal Statement
 - Wetland Mitigation Statement
 - International Fire Code Compliance Statement
 - Steep Slope Findings Statement
 - Correspondence with ConEdison
 - Construction Cost Estimate
 - Solar Inverter Specifications
 - Preliminary assessment of Existing Trees to be Removed
 - KnoxBox Specifications
 - Biodiversity and Natural Resource Assessment

Please refer to the previously Project Narrative for an in-depth discussion of the project proposal and community benefits that it will provide.

Should you have any questions or require additional information please contact me at the above number. Thank you for your time and consideration in this matter.

Respectfully submitted,

Keith C. Staudohar

Cronin Engineering P.E. P.C.

cc: Kieran Siao, Dimension Energy, LLC w/ encl. Seth Jacobson via email

pb-cort-croton avenue solar project-re-submission1-20190717.doc

Full Environmental Assessment Form Part 1 - Project and Setting

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the applicant or project sponsor to verify that the information contained in Part 1 is accurate and complete.

A. Project and Applicant/Sponsor Information.

Name of Action or Project:			
Croton Avenue Solar Project			
Project Location (describe, and attach a general location map):			
200 Croton Avenue, Town of Cortlandt, New York			
Brief Description of Proposed Action (include purpose or need):			
Removal of existing buildings, storage structures and unnecessary pavement for the	installation of a 4 Megawatt solar p	ower facility.	
		•	
Name of Applicant/Sponsor:	Telephone:		
Croton Solar, LLC	E-Mail:		
Address: 3280 Peachtree Road NE,			
City/PO: Atlanta	State: Georgia	Zip Code: 30305	
Project Contact (if not same as sponsor; give name and title/role):	Telephone: 866.777.796	59	
Kieran Siao	E-Mail: Ksiao@dimension-energy.com		
Address:			
City/PO;	State:	Zip Code:	
Property Owner (if not same as sponsor):	Telephone:		
Croton Realty & Development, Inc.	E-Mail:		
Address:			
200 Croton Avenue			
City/PO: Cortlandt Manor	State: New York	Zip Code: 10567	

B. Government Approvals

B. Government Approvals, Funding, or Spor assistance.)	nsorship. ("Funding" includes grants, loans, tr	ax relief, and any oth	er forms of financia
Government Entity	If Yes: Identify Agency and Approval(s) Required	1	tion Date projected)
a. City Counsel, Town Board, ✓ Yes No or Village Board of Trustees	Special Permit required from Town Board		
b. City, Town or Village ✓Yes□No Planning Board or Commission	Site Plan approval required from Planning Board		
c. City, Town or ☐Yes☑No Village Zoning Board of Appeals			·
d. Other local agencies ☐Yes☑No			
e. County agencies ☐Yes ☑No			
f. Regional agencies	Stormwater Review from New York City DEP		
g. State agencies ☑Yes□No	SPDES General Permit for Construction Activities required from New York State DEC		
h. Federal agencies □Yes☑No			
i. Coastal Resources.i. Is the project site within a Coastal Area, or	or the waterfront area of a Designated Inland W	aterway?	□Yes☑No
ii. Is the project site located in a communityiii. Is the project site within a Coastal Erosion	with an approved Local Waterfront Revitalizat Hazard Area?	ion Program?	☐ Yes☑No ☐ Yes☑No
C. Planning and Zoning			
C.1. Planning and zoning actions.			
Will administrative or legislative adoption, or an only approval(s) which must be granted to enable If Yes, complete sections C, F and G. If No, proceed to question C.2 and com	mendment of a plan, local law, ordinance, rule of the proposed action to proceed? In plete all remaining sections and questions in Particular sections.		□ Yes ☑No
C.2. Adopted land use plans.			
a. Do any municipally- adopted (city, town, villa where the proposed action would be located?	age or county) comprehensive land use plan(s)	include the site	✓Yes□No
If Yes, does the comprehensive plan include spectwould be located?		•	☑ Yes□No
 b. Is the site of the proposed action within any lo Brownfield Opportunity Area (BOA); designa or other?) If Yes, identify the plan(s): NYC Watershed Boundary 	ocal or regional special planning district (for ex ated State or Federal heritage area; watershed m	ample: Greenway; nanagement plan;	∠ Yes□No
The Video state Southamy			
 c. Is the proposed action located wholly or partial or an adopted municipal farmland protection If Yes, identify the plan(s): 	ally within an area listed in an adopted municip plan?	al open space plan,	□Yes ☑ No

C.3. Zoning	
a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. If Yes, what is the zoning classification(s) including any applicable overlay district? R-40 Single Family Residential	☑ Yes□No
b. Is the use permitted or allowed by a special or conditional use permit?	✓ Yes No
c. Is a zoning change requested as part of the proposed action? If Yes,	□ Yes ☑ No
i. What is the proposed new zoning for the site?	
C.4. Existing community services.	
a. In what school district is the project site located? <u>Lakeland Central School District</u>	
b. What police or other public protection forces serve the project site? Westchester County Police and New York State Troopers	
c. Which fire protection and emergency medical services serve the project site? Lake Mohegan Fire District	
d. What parks serve the project site? Small park directly across from site entrance	
D. Project Details	
D.1. Proposed and Potential Development	
a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixe components)? Commercial - Solar power facility	ed, include all
b. a. Total acreage of the site of the proposed action? 35.9 acres	
b. Total acreage to be physically disturbed? c. Total acreage (project site and any contiguous properties) owned	
or controlled by the applicant or project sponsor? 35.9 acres	
 c. Is the proposed action an expansion of an existing project or use? i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles square feet)? %	☐ Yes☑ No s, housing units.
	, , , , , , , , , , , , , , , , , , , ,
d. Is the proposed action a subdivision, or does it include a subdivision? If Yes	☐Yes ☑ No
 d. Is the proposed action a subdivision, or does it include a subdivision? If Yes, i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types) 	
 If Yes, i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types) ii. Is a cluster/conservation layout proposed? iii. Number of lots proposed? 	
 If Yes, i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types) ii. Is a cluster/conservation layout proposed? iii. Number of lots proposed? iv. Minimum and maximum proposed lot sizes? Minimum Maximum 	□Yes □No
 If Yes, i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types) ii. Is a cluster/conservation layout proposed? iii. Number of lots proposed?	□Yes ☑ No
If Yes, i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types) ii. Is a cluster/conservation layout proposed? iii. Number of lots proposed? iv. Minimum and maximum proposed lot sizes? Minimum Maximum e. Will the proposed action be constructed in multiple phases? i. If No, anticipated period of construction: 6 months ii. If Yes: • Total number of phases anticipated	□Yes □No
If Yes, i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types) ii. Is a cluster/conservation layout proposed? iii. Number of lots proposed? iv. Minimum and maximum proposed lot sizes? Minimum Maximum e. Will the proposed action be constructed in multiple phases? i. If No, anticipated period of construction: ii. If Yes: • Total number of phases anticipated • Anticipated commencement date of phase 1 (including demolition) month year	□Yes □No
If Yes, i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types) ii. Is a cluster/conservation layout proposed? iii. Number of lots proposed? iv. Minimum and maximum proposed lot sizes? Minimum Maximum e. Will the proposed action be constructed in multiple phases? i. If No, anticipated period of construction: 6 months ii. If Yes: • Total number of phases anticipated • Anticipated commencement date of phase 1 (including demolition) month year	☐Yes ☑No ☐Yes ☑No ☐Yes ☑No

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	ct include new resid				☐Yes Z No
If Yes, show nun	nbers of units propo		· · · · · · · · · · · · · · · · · · ·		
	One Family	Two Family	Three Family	Multiple Family (four or more)	
Initial Phase					
At completion			_		
of all phases					
o Does the propo	osed action include	new non-residenti	ial construction (inclu	iding avancions 19	✓ Yes No
If Yes.			al construction (merc	iding expansions;	M I ESTINO
i. Total number	r of structures470	0 frames			
ii. Dimensions ((in feet) of largest p	roposed structure:	7 <u>.5</u> height;	13 width; and39 length	
iii. Approximate	extent of building	space to be heated	or cooled:	N/A square feet	
h. Does the propo	osed action include	construction or oth	her activities that will	l result in the impoundment of any	☐Yes Z No
liquids, such a	s creation of a wate	r supply, reservoir	r, pond, lake, waste la	agoon or other storage?	<u> </u>
If Yes,			-		
i. Purpose of the	e impoundment:	· · · · · · · · · · · · · · · · · · ·			
ii. If a water imp	oundment, the prin	cipal source of the	water:	☐ Ground water ☐ Surface water stream	ns Other specity:
iii If other than v	water, identify the ty	une of impounded/	/contained liquids and	d thair course	
			-		
iv. Approximate	size of the propose	d impoundment.	Volume:	million gallons; surface area:height;length	acres
v. Dimensions o	of the proposed dam	or impounding st	ructure:	height;length	
vi. Construction	method/materials t	for the proposed da	am or impounding str	ructure (e.g., earth fill, rock, wood, conc	rete):
					
D.1 Project On	41		······································		 -
D.2. Project Op					
a. Does the propo	sed action include:	any excavation, m	ining, or dredging, du	uring construction, operations, or both?	☐ Yes Z No
(Not including	general site prepara	ation, grading or in	istallation of utilities	or foundations where all excavated	
materials will r	emain onsite)				
	irpose of the excava	ation or dredging?			
				be removed from the site?	
Volume	(specify tons or cul	hic vards):	s, etely is proposed to	o be removed from the site?	
• ^1	4 - f	Λ			
iii. Describe natu	re and characteristic	cs of materials to b	e excavated or dredg	ged, and plans to use, manage or dispose	of them.
				,,,,,,,, .	
137211 About ho	1toning		1 -!-1-0		——————————————————————————————————————
If yes, descri		or processing of ex	xcavated materials?		□Yes☑No
11 yes, acces.	De				
υ What is the to	otal area to be dredg	ed or excavated?		acres	
vi. What is the m	naximum area to be	worked at any one	. 41	acres	
vii. What would b	be the maximum de	nth of excavation	or dredging?	feet	
viii. Will the exca	avation require blast	ting?			∐Yes , ∕No
				<u> </u>	
				·	
				crease in size of, or encroachment	☐Yes Z No
into any existi			on of, increase or decach or adjacent area?	crease in size of, or encroachment	∐Yes ∏ No
into any existi If Yes:	ng wetland, waterbo	ody, shoreline, bea	ach or adjacent area?		
into any existi If Yes: i. Identify the w	ng wetland, waterbo	ody, shoreline, bea y which would be	ach or adjacent area? affected (by name, w	vater index number, wetland map numbe	
into any existi If Yes: i. Identify the w	ng wetland, waterbo	ody, shoreline, bea y which would be	ach or adjacent area? affected (by name, w		

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placemalteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square.	nent of structures, or quare feet or acres:
iii. Will the proposed action cause or result in disturbance to bottom sediments?	□Yes □No
If Yes, describe: iv. Will the proposed action cause or result in the destruction or removal of aquatic vegetation?	☐ Yes ☐ No
If Yes:	☐ 1 €2☐ IXO
acres of aquatic vegetation proposed to be removed:	
 expected acreage of aquatic vegetation remaining after project completion; 	
purpose of proposed removal (e.g. beach clearing, invasive species control, boat access):	
a wongood method of plant removal.	
proposed method of plant removal: if chemical/larbicide treatment will be used specific product(s):	
if chemical/herbicide treatment will be used, specify product(s): v. Describe any proposed reclamation/mitigation following disturbance:	
v. Describe any proposed reciamanon/mingation following disturbance.	
c. Will the proposed action use, or create a new demand for water?	☐Yes Z No
If Yes:	T C2 M INO
i. Total anticipated water usage/demand per day: gallons/day	
ii. Will the proposed action obtain water from an existing public water supply?	□Yes □No
If Yes:	
Name of district or service area:	
 Does the existing public water supply have capacity to serve the proposal? 	☐ Yes ☐ No
• Is the project site in the existing district?	☐ Yes ☐ No
• Is expansion of the district needed?	☐ Yes ☐ No
Do existing lines serve the project site?	☐ Yes ☐ No
iii. Will line extension within an existing district be necessary to supply the project?	□Yes □No
If Yes: • Describe extensions or capacity expansions proposed to serve this project:	
Source(s) of supply for the district:	
• Source(s) of supply for the district: iv. Is a new water supply district or service area proposed to be formed to serve the project site?	☐ Yes☐No
If, Yes:	
Applicant/sponsor for new district: Date application submitted or anticipated:	
 Date application submitted or anticipated: Proposed source(s) of supply for new district: 	
Proposed source(s) of supply for new district: v. If a public water supply will not be used, describe plans to provide water supply for the project:	
v. It a public water supply will not be used, describe plans to provide water supply for the project.	
vi. If water supply will be from wells (public or private), what is the maximum pumping capacity:	gallons/minute.
d. Will the proposed action generate liquid wastes?	☐ Yes Z No
If Yes: i Total anticipated liquid waste generation per day: gallone/day	
 i. Total anticipated liquid waste generation per day: gallons/day ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe al 	Il components and
approximate volumes or proportions of each):	ii components and
iii. Will the proposed action use any existing public wastewater treatment facilities? If Yes:	☐ Yes ☑ No
Name of wastewater treatment plant to be used:	
 Name of district: Does the existing wastewater treatment plant have capacity to serve the project? 	□Yes□No
Is the project site in the existing district?	□Yes□No
Is expansion of the district needed?	□Yes□No

 Do existing sewer lines serve the project site? 	☐Yes ☐No
 Will a line extension within an existing district be necessary to serve the project? 	□Yes□No
If Yes:	
Describe extensions or capacity expansions proposed to serve this project:	
iv. Will a new wastewater (sewage) treatment district be formed to serve the project site?	□Yes ☑ No
If Yes:	
Applicant/sponsor for new district:	
Date application submitted or anticipated:	
What is the receiving water for the wastewater discharge?	10.1
v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including spec	ifying proposed
receiving water (name and classification if surface discharge or describe subsurface disposal plans):	
vi. Describe any plans or designs to capture, recycle or reuse liquid waste:	
- The second starting of designs to suprairy, respect of reason injurial master.	
e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point	☑ Yes □No
sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point	
source (i.e. sheet flow) during construction or post construction? Total disturbance = 4.8 Ac., reduction in impervious If Yes;	areas.
i. How much impervious surface will the project create in relation to total size of project parcel?	
A AF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	O BE As
Square feet orS acres (impervious surface) Existing impervious area = 2.4 Ac., proposed imp. are Square feet or35.9 acres (parcel size)	:a = 0.85 AC.
ii. Describe types of new point sources. During construction, ambient levels may be exceeded by construction vehicles, however	er this is a temporary
impact as construction is estimated at less than 6 months. Operational noise will not ex	ceed ambient levels.
iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent p	roperties,
groundwater, on-site surface water or off-site surface waters)?	
N/A	
Ye. 6 . 11 ./6 . 1	
If to surface waters, identify receiving water bodies or wetlands:	
N/A	
Will stormwater runoff flow to adjacent properties?	□Yes□No
iv. Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater?	
f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel	Yes No
combustion, waste incineration, or other processes or operations?	L I CS MINO
If Yes, identify:	
i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)	
ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)	
iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)	
g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit,	□Yes ☑ No
or Federal Clean Air Act Title IV or Title V Permit?	
If Yes:	
i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet	□Yes□No
ambient air quality standards for all or some parts of the year)	
ii. In addition to emissions as calculated in the application, the project will generate:	
•Tons/year (short tons) of Carbon Dioxide (CO ₂)	
•Tons/year (short tons) of Nitrous Oxide (N ₂ O)	
 Tons/year (short tons) of Perfluorocarbons (PFCs) Tons/year (short tons) of Sulfur Hexafluoride (SF₆) 	
• Tons/year (short tons) of Carbon Dioxide equivalent of Hydroflourocarbons (HFCs)	
Tons/year (short tons) of Cardon Bloxide equivalent of Hydronout ocardons (HPCs) Tons/year (short tons) of Hazardous Air Pollutants (HAPs)	
TOUS/VEALABIOH TOUS/OF FLAZAROOUS AND FORMULANDS FLIATES	

h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? If Yes:	□Yes ☑ No
 i. Estimate methane generation in tons/year (metric): ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to ge electricity, flaring): 	nerate heat or
i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust):	∐Yes ☑ No
j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? If Yes: i. When is the peak traffic expected (Check all that apply):	Yes _ ZNo):
 iii. Parking spaces: Existing Proposed Net increase/decrease	□Yes□No access, describe: □Yes□No □Yes□No □Yes□No
 k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? If Yes: i. Estimate annual electricity demand during operation of the proposed action: ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/lo other): iii. Will the proposed action require a new, or an upgrade, to an existing substation? 	Yes No
1. Hours of operation. Answer all items which apply. ii. During Construction: iii. During Operations: • Monday - Friday: 8am to 5pm • Monday - Friday: Continuous • Saturday: 8am to 5pm • Saturday: Continuous • Sunday: N/A • Sunday: Continuous • Holidays: N/A • Holidays: Continuous	

m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both? During construction, ambient levels may be exceeded by construction vehicles, however this is a temporal If yes: construction is estimated at less than 6 months. Operational noise will not exceed ambient levels. i. Provide details including sources, time of day and duration:	Yes Z No ry impact as
ii. Will the proposed action remove existing natural barriers that could act as a noise barrier or screen? Describe:	□Yes□No
n. Will the proposed action have outdoor lighting? If yes: i. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:	☐ Yes ☑ No
ii. Will proposed action remove existing natural barriers that could act as a light barrier or screen? Describe:	□Yes□No
o. Does the proposed action have the potential to produce odors for more than one hour per day? If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures:	☐ Yes Ø No
p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? If Yes: i. Product(s) to be stored ii. Volume(s) per unit time (e.g., month, year) iii. Generally, describe the proposed storage facilities:	Yes No
 q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? If Yes: i. Describe proposed treatment(s): 	☐ Yes ☑ No
ii. Will the proposed action use Integrated Pest Management Practices?	☐ Yes ☐No
r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? If Yes: i. Describe any solid waste(s) to be generated during construction or operation of the facility: • Construction: tons per (unit of time) ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste: • Construction:	☐ Yes ☑No
Operation: iii. Proposed disposal methods/facilities for solid waste generated on-site: Construction:	
• Operation:	

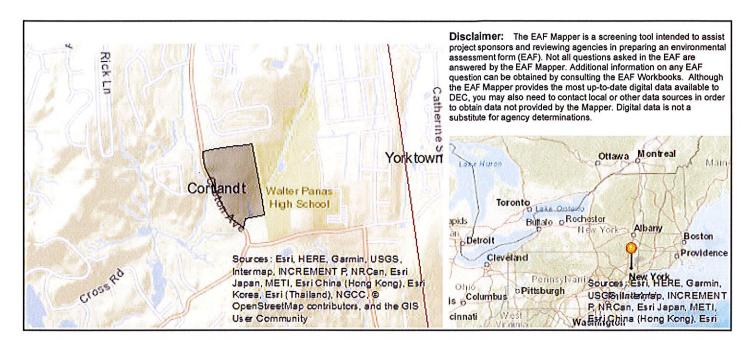
s. Does the proposed action include construction or modi	fication of a solid waste man	nagement facility?	Yes 🗸 No	
i. Type of management or handling of waste proposed for the site (e.g., recycling or transfer station, composting, landfill, or				
other disposal activities):			, 01	
ii. Anticipated rate of disposal/processing:				
• Tons/month, if transfer or other non-		nt, or		
• Tons/hour, if combustion or thermal	treatment			
iii. If landfill, anticipated site life:			<u></u> .	
t. Will the proposed action at the site involve the comme	rcial generation, treatment, s	torage, or disposal of hazard	lous 🗌 Yes 🖊 No	
waste? If Yes:				
i. Name(s) of all hazardous wastes or constituents to be	generated handled or mane	and at facility:		
i. Palife(s) of all hazardous wastes of constituents to be	generated, nandred or mana	iged at facility.		
ii. Generally describe processes or activities involving h	azardous wastes or constitue	ents:		
- -	 			
iii Charify amount to be houdled as consected			·	
iii. Specify amount to be handled or generatedtoiv. Describe any proposals for on-site minimization, rec	ons/month veling or rouse of hezardous	constituents:		
17. Describe any proposats for on-site minimization, rec	yening of reuse of mazardous	constituents.		
		<u> </u>		
v. Will any hazardous wastes be disposed at an existing	offsite hazardous waste fac	ility?	□Yes□No	
If Yes: provide name and location of facility:				
If No. describe managed management of any based as		l		
If No: describe proposed management of any hazardous	wastes which will not be sen	t to a nazardous waste facilit	ty:	
E. Site and Setting of Proposed Action				
E 1 Land were on and anymounding the president site	,			
E.1. Land uses on and surrounding the project site				
a. Existing land uses.				
i. Check all uses that occur on, adjoining and near the ☐ Urban ☐ Industrial ☑ Commercial ☐ Resid	project site.	ol (non forms)		
✓ Forest ☐ Agriculture ☐ Aquatic ✓ Other	. (zuecita). Dobu meadom ennai (zuonioan) — Kriis	ii (iioii-taiiii)		
ii. If mix of uses, generally describe:	(specify). open meadow			
		<u> </u>		
b. Land uses and covertypes on the project site.				
Land use or	Current	Acreage After	Change	
Covertype	Acreage	Project Completion	(Acres +/-)	
Roads, buildings, and other paved or impervious	11010450	Troject completion	(Heres 17)	
surfaces	2.40	0.85	-1.55	
Forested	18.54	15.60	-2.94	
Meadows, grasslands or brushlands (non-		10.00	2.01	
agricultural, including abandoned agricultural)	8.54	14.93	+6.39	
Agricultural	0.0	20	•	
(includes active orchards, field, greenhouse etc.)	0.0	0.0	0.0	
Surface water features				
(lakes, ponds, streams, rivers, etc.)	0.0	0.0	0.0	
Wetlands (freshwater or tidal)	1.70	1.70	0.0	
Non-vegetated (bare rock, earth or fill)	1.02	1.02	0.0	
• Other	1.02	1.02	V.0	
Describe: Lawn areas	3.70	4.00		
Edwir diedo	3.70	1.80	-1.9	

c. Is the project site presently used by members of the community for public recreation? i. If Yes: explain:	□Yes☑No
d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? If Yes, i. Identify Facilities:	∏Yes ∑ No
e. Does the project site contain an existing dam? If Yes: i. Dimensions of the dam and impoundment: • Dam height:	∐Yes ∑ No
ii. Dam's existing hazard classification: iii. Provide date and summarize results of last inspection:	
f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility,	☐ Yes ☑ No
or does the project site adjoin property which is now, or was at one time, used as a solid waste management facility as: i. Has the facility been formally closed? • If yes, cite sources/documentation: ii. Describe the location of the project site relative to the boundaries of the solid waste management facility:	
iii. Describe any development constraints due to the prior solid waste activities:	
g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? If Yes: i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred.	∐Yes ⊠ No i:
h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site?	☐Yes ☑ No
If Yes: i. Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply: Yes - Spills Incidents database Provide DEC ID number(s): Yes - Environmental Site Remediation database Neither database ii. If site has been subject of RCRA corrective activities, describe control measures:	
	Z Yes□No

v. Is the project site subject to an institutional control	limiting property uses?		□Yes☑No
If yes, DEC site ID number:			
 Describe the type of institutional control (e.g 	, –		
 Describe any engineering controls: Will the project affect the institutional or eng 	ringaring gentrols in place?	-	☐Yes Z No
Will the project affect the institutional or eng Evaluing	gmeering controls in place?		☐ 1 es [V] 1/10
Explain:			
			
E.2. Natural Resources On or Near Project Site			
a. What is the average depth to bedrock on the project	site?	<u>> 7</u> feet	
b. Are there bedrock outcroppings on the project site?			Z Yes □ No
If Yes, what proportion of the site is comprised of bed	rock outeroppings?	+/- 8 %	
Durdon in out and them of a proceed on unal act after	Dayton fine condularm	47 %	
c. Predominant soil type(s) present on project site:	Paxton fine sandy loam Woodbridge loam	42 %	
	Charlton loam	6%	
1 What a diameter day of the state of the st			
d. What is the average depth to the water table on the	project site? Average:	feet	
e. Drainage status of project site soils: Well Draine			
	Well Drained: 42% of site		
🔽 Poorly Drain	4% of site		
f. Approximate proportion of proposed action site with		53_% of site	
	[] 10-15%:	22_% of site	
	√ 15% or greater:	<u>25_</u> % of site	
g. Are there any unique geologic features on the project	ct site?		☐ Yes Z No
If Yes, describe:			
h. Surface water features.			
i. Does any portion of the project site contain wetland	ds or other waterbodies (including s	treams, rivers,	□Yes☑No
ponds or lakes)?	Site contains a locally regula		_ _
ii. Do any wetlands or other waterbodies adjoin the pr	oject site?		
If Yes to either i or ii, continue. If No, skip to E.2.i.			✓ Yes□No
			Y Y es INO
iii. Are any of the wetlands or waterbodies within or a	adjoining the project site regulated b	oy any federal,	✓ Yes No
state or local agency?			
state or local agency? iv. For each identified regulated wetland and waterbo		ollowing information:	☑ Yes □No
state or local agency? iv. For each identified regulated wetland and waterbo • Streams: Name None	dy on the project site, provide the fo	ollowing information: Classification	☑ Yes □No
state or local agency? iv. For each identified regulated wetland and waterbook Streams: Name None Lakes or Ponds: Name	dy on the project site, provide the fo	ollowing information: Classification Classification	✓ Yes □No
state or local agency? iv. For each identified regulated wetland and waterbook Streams: Name None Lakes or Ponds: Name Wetlands: Name Unnamed - locally regulated	dy on the project site, provide the fo	ollowing information: Classification	✓ Yes □No
state or local agency? iv. For each identified regulated wetland and waterbook Streams: Name None Lakes or Ponds: Name	dy on the project site, provide the fo	ollowing information: Classification Classification Approximate Size 1.7 ac	✓ Yes □No
state or local agency? iv. For each identified regulated wetland and waterbo Streams: Name Lakes or Ponds: Name Wetlands: Name Unnamed - locally regulated by DEC) V. Are any of the above water bodies listed in the moswaterbodies?	dy on the project site, provide the forgulated	ollowing information: Classification Classification Approximate Size 1.7 acquality-impaired	Yes No
state or local agency? iv. For each identified regulated wetland and waterbo Streams: Name Lakes or Ponds: Name Wetlands: Name Unnamed - locally regulated by DEC) V. Are any of the above water bodies listed in the mos	dy on the project site, provide the forgulated	ollowing information: Classification Classification Approximate Size 1.7 acquality-impaired	Yes No
state or local agency? iv. For each identified regulated wetland and waterbo Streams: Name Lakes or Ponds: Name Wetlands: Name Unnamed - locally regulated by DEC) V. Are any of the above water bodies listed in the moswaterbodies?	dy on the project site, provide the forgulated	ollowing information: Classification Classification Approximate Size 1.7 acquality-impaired	Yes No
state or local agency? iv. For each identified regulated wetland and waterbo Streams: Name Lakes or Ponds: Name Wetlands: Name Unnamed - locally regulated by DEC) V. Are any of the above water bodies listed in the moswaterbodies?	dy on the project site, provide the forgulated	ollowing information: Classification Classification Approximate Size 1.7 acquality-impaired	Yes No
state or local agency? iv. For each identified regulated wetland and waterbook Streams: Name None Lakes or Ponds: Name Unnamed - locally regulated by DEC) N/A v. Are any of the above water bodies listed in the most waterbodies? If yes, name of impaired water body/bodies and basis	dy on the project site, provide the forgulated	ollowing information: Classification Classification Approximate Size 1.7 acquality-impaired	✓Yes □No □Yes ☑No
state or local agency? iv. For each identified regulated wetland and waterbook Streams: Name None Lakes or Ponds: Name Unnamed - locally regulated by DEC) N/A v. Are any of the above water bodies listed in the most waterbodies? If yes, name of impaired water body/bodies and basis i. Is the project site in a designated Floodway?	dy on the project site, provide the forgulated	ollowing information: Classification Classification Approximate Size 1.7 acquality-impaired	✓Yes ✓No Yes ✓No
state or local agency? iv. For each identified regulated wetland and waterbook Streams: Name None Lakes or Ponds: Name Unnamed - locally regulated by DEC) N/A v. Are any of the above water bodies listed in the most waterbodies? If yes, name of impaired water body/bodies and basis i. Is the project site in a designated Floodway? j. Is the project site in the 100-year Floodplain? k. Is the project site in the 500-year Floodplain?	dy on the project site, provide the forgulated It recent compilation of NYS water for listing as impaired:	ollowing information: Classification Classification Approximate Size 1.7 ac	Yes No Yes No Yes No Yes No
state or local agency? iv. For each identified regulated wetland and waterbook Streams: Name Lakes or Ponds: Name Wetlands: Name Unnamed - locally regulated by DEC) N/A v. Are any of the above water bodies listed in the most waterbodies? If yes, name of impaired water body/bodies and basis i. Is the project site in a designated Floodway? j. Is the project site in the 100-year Floodplain?	dy on the project site, provide the forgulated It recent compilation of NYS water for listing as impaired:	ollowing information: Classification Classification Approximate Size 1.7 ac	Yes No Yes No Yes No
state or local agency? iv. For each identified regulated wetland and waterbook Streams: Name None Lakes or Ponds: Name Unnamed - locally regulated by DEC) Wetland No. (if regulated by DEC) N/A v. Are any of the above water bodies listed in the most waterbodies? If yes, name of impaired water body/bodies and basis i. Is the project site in a designated Floodway? j. Is the project site in the 100-year Floodplain? k. Is the project site in the 500-year Floodplain? I. Is the project site located over, or immediately adjoit If Yes:	dy on the project site, provide the forgulated It recent compilation of NYS water for listing as impaired:	ollowing information: Classification Classification Approximate Size 1.7 ac	Yes No Yes No Yes No Yes No Yes No

m. Identify the predominant wildlife species that occupy or use the project site:		
n. Does the project site contain a designated significant natural community? If Yes: i. Describe the habitat/community (composition, function, and basis for designation)	_	es Z No
Following completion of project as proposed:	cres cres	es∐No
endangered or threatened, or does it contain any areas identified as habitat for an en If Yes: i. Species and listing (endangered or threatened): Fence Lizard	dangered or threatened species?	
 p. Does the project site contain any species of plant or animal that is listed by NYS a special concern? If Yes: i. Species and listing: 	•	es No
q. Is the project site or adjoining area currently used for hunting, trapping, fishing or so If yes, give a brief description of how the proposed action may affect that use:		es 🗾 No
E.3. Designated Public Resources On or Near Project Site		
a. Is the project site, or any portion of it, located in a designated agricultural district of Agriculture and Markets Law, Article 25-AA, Section 303 and 304? If Yes, provide county plus district name/number:	· —	es Z No
 b. Are agricultural lands consisting of highly productive soils present? i. If Yes: acreage(s) on project site? ii. Source(s) of soil rating(s): 		es No
c. Does the project site contain all or part of, or is it substantially contiguous to, a reg Natural Landmark? If Yes: i. Nature of the natural landmark:	ogical Feature	es 🛮 No
d. Is the project site located in or does it adjoin a state listed Critical Environmental A If Yes: i. CEA name: ii. Basis for designation: iii. Designating agency and date:		es No
		

e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district Yes No which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places?			
Office of Parks, Recreation and Historic Preservation to be eligible 1 If Yes:	or listing on the State Register of Historic Pi	laces?	
i. Nature of historic/archaeological resource: Archaeological Site	☐ Historic Building or District		
iii. Brief description of attributes on which listing is based:			
f. Is the project site, or any portion of it, located in or adjacent to an archaeological sites on the NY State Historic Preservation Office (State Preserva		☐Yes Z No	
g. Have additional archaeological or historic site(s) or resources been i If Yes: i. Describe possible resource(s):		□Yes Z No	
ii. Basis for identification:			
h. Is the project site within fives miles of any officially designated and scenic or aesthetic resource? If Yes:	publicly accessible federal, state, or local	· Tes No	
 i. Identify resource: ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or scenic byway, etc.): 			
etc.): iii. Distance between project and resource:	niles.		
 i. Is the project site located within a designated river corridor under the Program 6 NYCRR 666? If Yes: 	ne Wild, Scenic and Recreational Rivers	☐ Yes Z No	
 i. Identify the name of the river and its designation: ii. Is the activity consistent with development restrictions contained in 6NYCRR Part 666? 		□Yes □No	
F. Additional Information Attach any additional information which may be needed to clarify you have identified any adverse impacts which could be associated measures which you propose to avoid or minimize them.	• •	npacts plus any	
G. Verification I certify that the information provided is true to the best of my knowled.	edge.		
Applicant/Sponsor Name Sam Youneszadeh	Date_4/24/2019, Revised July 17, 2019		
Signature Satt	Title_Authorized Officer		

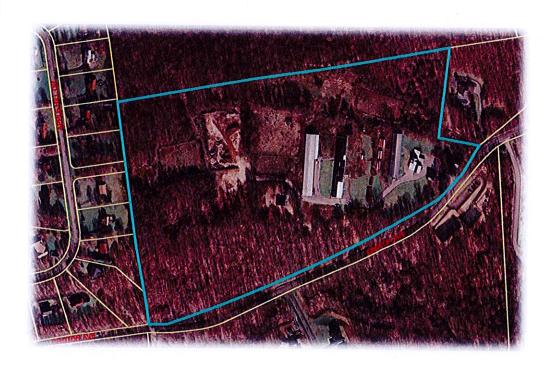


B.i.i [Coastal or Waterfront Area]	No
B.i.ii [Local Waterfront Revitalization Area]	No
C.2.b. [Special Planning District]	Yes - Digital mapping data are not available for all Special Planning Districts. Refer to EAF Workbook.
C.2.b. [Special Planning District - Name]	NYC Watershed Boundary
E.1.h [DEC Spills or Remediation Site - Potential Contamination History]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Listed]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.iii [Within 2,000' of DEC Remediation Site]	Yes
E.1.h.iii [Within 2,000' of DEC Remediation Site - DEC ID]	360003
E.2.g [Unique Geologic Features]	No
E.2.h.i [Surface Water Features]	No
E.2.h.ii [Surface Water Features]	Yes
E.2.h.iii [Surface Water Features]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
E.2.h.v [Impaired Water Bodies]	No
E.2.i. [Floodway]	No
E.2.j. [100 Year Floodplain]	No
E.2.k. [500 Year Floodplain]	No
E.2.I. [Aquifers]	No
E.2.n. [Natural Communities]	No

E.2.o. [Endangered or Threatened Species]	Yes
E.2.o. [Endangered or Threatened Species - Name]	Fence Lizard
E.2.p. [Rare Plants or Animals]	No
E.3.a. [Agricultural District]	No
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	No
E.3.e. [National or State Register of Historic Places or State Eligible Sites]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.3.f. [Archeological Sites]	No
E.3.i. [Designated River Corridor]	No

CROTON AVENUE SOLAR PROJECT

SUPPLEMENTAL REPORT



JULY 17, 2019

CROTON SOLAR, LLC

200 CROTON AVENUE

CORTLANDT MANOR, NEW YORK 10567

WESTCHESTER COUNTY

STANDARDS FOR APPROVAL

CROTON SOLAR, LLC

CROTON AVENUE SOLAR PROJECT TOWN OF CORTLANDT WESTCHESTER COUNTY, NY

PROPOSED SOLAR FARM

LEAD AGENCY

TOWN OF CORTLANDT PLANNING BOARD

1 HEADY STREET, CORTLANDT MANOR, NY 10567

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CROTON REALTY & DEVELOPMENT, INC.

200 CROTON AVENUE, CORTLANDT MANOR, NY 10567

CONTACT: SETH JACOBSON, PRESIDENT

(914) 736-0600

DATE OF ACCEPTANCE BY LEAD AGENCY: DATE(S) OF PUBLIC HEARING(S): CLOSING OF PUBLIC COMMENT PERIOD:

PARTICIPATING CONSULTANTS

APPLICANT/CONTRACT VENDEE

CROTON SOLAR, LLC.

3280 PEACHTREE ROAD NE, 7TH FLOOR, ATLANTA, GA 30305 CONTACT: SAM YOUNESZADEH, CHIEF DEVELOPMENT OFFICER (866) 777-7969

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SECTION 1 EXECUTIVE SUMMARY

This document is a report concerning the standards of approval for compliance with the Town of Cortlandt codes for the Croton Avenue, LLC Solar Project. This report has been prepared in accordance with the requirements of the Town of Cortlandt Code Chapter 179 – Wetland Mitigation, Chapter 197 – Noise, Chapter 259 – Steep Slope Findings Statements, and Chapter 283 – Trees. This document demonstrates the compliance of the Proposed Action with the aforementioned municipal codes and ordinances. The Town of Cortlandt Planning Board has been declared the Lead Agency for this Action.

A. Brief Description of Proposed Action

- The action proposed by Croton Solar, LLC (Applicant) and studied as the Base Plan in this report is a Tier 3 Solar Energy System on a 35.9-acre parcel of land located along the east side of Croton Avenue. This Proposed Action is referred to in this document as the Base Plan. Any references to undefined terms such as "project" or "proposed layout" shall mean the Base Plan.
- The Base Plan also involves the construction of a new limited use pervious access road. The proposed limited use pervious access road is proposed to begin at the edge of the existing driveway and continue north to the limits of the solar array, terminating in a hammerhead turn.
- The Base Plan conforms in all aspects to the zoning requirements of the R-40 Zoning District, Local Law #8, and the New York State Department of Environment Conservation Memorandum concerning Solar Panel Construction Stormwater Permitting.
- An application was made to the Town of Cortlandt Planning Board in May of 2019 and is known as file number PB 2019-11.
- The project site is located at 200 CROTON AVENUE, in the Town of Cortlandt, Westchester County (Site). The Site is bounded to the west by Croton Avenue, to the north by the Apple Hill Subdivision, to the east by lands of the Walter Panas High School, and to the south by a residential property. The Site is the location of the former Croton Egg Farm. A previous application to the Planning Board was made and approved that proposed the construction of a twenty-five-lot residential subdivision to be known as Hanover Estates on the property. The resolution of this proposal was adopted on September 1, 2015 and filed in the Office of the Town Clerk and Planning Board on September 4, 2015.
- Presently, the Site contains three (3) residential rental dwellings, several barns, a barn converted to an office and storage building, the remains of horse paddocks and corrals, impervious driveways and parking areas, several metal storage containers, trails, gravel roads, and meadows. All of the onsite building and structures would be removed as a result of the Proposed Action, except the existing access driveway from Croton Avenue located at the southern end of the Site.
- See Table 1 for the Project and Site Data.

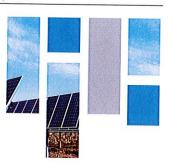
TABLE 1 - SITE & PROJECT DATA

The following data pertains to the site and project:		
Tax Map Identification	Section 34.14, block 02, lot 28	
Project site area	35.9 acres	
Zoning District	R-40 (Single Family Residential)	
Watershed	Partially Hudson River (29.5 ac.) / Partially NYCEP Watershed (6.4 ac.)	
Owner	Croton Realty & Development, Inc., 150 Croton Ave, Cortlandt Manor, NY 10567	
Applicant/Contract Vendee	Croton Solar, LLC, 3280 Peachtree Road NE, 7th Floor, Atlanta, GA 30305	
Project Engineer	Cronin Engineering PE, PC, 39 Arlo Lane, Cortlandt Manor NY 10567	
Project Surveyor	Ward Carpenter Engineers, Inc., 76 Mamaroneck Avenue, White Plains, NY 10601	

SECTION 2 PERMITTING REQUIREMENTS FOR TIER 3 SOLAR ENERGY SYSTEMS

The Proposed Project, as a Tier 3 Solar Energy System, is permitted in a R-40 single family residential zone under the Town of Cortlandt Code, Chapter 255 – Solar Energy Systems, known as Local Law #8, adopted by the Town Board of the Town of Cortlandt December 11, 2018. The following is a written analysis of the permitting requirements for Tier 3 Solar Energy Systems prepared by Croton Solar, LLC.





Croton Avenue Solar Project: Compliance Analysis of Town of Cortlandt Town Code Chapter 255, Section 255-8: Permitting Requirements for Tier 3 Solar Energy Systems

H. Permitting Requirements for Tier 3 Solar Energy Systems

All Tier 3 Solar Energy Systems are permitted through the issuance of a Special Permit by the Town Board, and subject to the following conditions:

(1) Applications for the installation of Tier 3 Solar Energy Systems are subject to the requirements of Chapter 307, Article X: Standards and Conditions for Special Permits of the Town Code.

The proposed solar project will be installed in compliance with Chapter 307, Article X: Standards and Conditions for Special Permits Requirements.

(2) Underground Requirements: All on-site utility lines shall be placed underground to the extent feasible and as permitted by the serving utility, with the exception of the main service connection at the utility company right-of-way and any new interconnection equipment, including without limitation any poles, with new easements and right-of-way.

As shown on the project site plan, the majority of conductors on site will be housed in conduit underground. The exception will be the main service connection to the ConEdison distribution line along Croton Avenue.

(3) Vehicular paths: Vehicular paths within the site shall be designed to minimize the extent of impervious materials and soil compaction.

The proposed solar project will utilize the existing access road on the property to the greatest extent practical, and any unnecessary impervious surfaces will be removed. Any additional sections of access roads that must be built will minimize new impervious surface to the extent practical.

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(4) Signage:

- a. No signage or graphic content shall be displayed on the Solar Energy Systems except for the manufacturer's name, equipment specific information, safety information, and 24-hour emergency contact information. Said information shall be depicted within an area of no more than 8 square feet.
- b. As required by National Electric Code ("NEC"), disconnect and other emergency shutoff information shall be clearly displayed on a light reflective surface. A clearly visible warning sign concerning voltage shall be placed at the base of all pad-mounted transformers and substations.

The proposed solar project can comply with the Town of Cortlandt and NEC signage requirements. The required signage will be posted in a clearly displayed area and will be no larger than eight square feet.

(5) Glare: All Solar Panels shall have anti-reflective coating(s).

The solar panels proposed for the solar project will have anti-reflective coating.

(6) Lighting: Lighting of the Solar Energy Systems shall be limited to that minimally required for safety and operational purposes and shall be reasonably shielded and downcast from abutting properties.

The proposed solar project does not currently include permanent site lighting. If site lighting is required, the Town will be notified, and dark sky compliant equipment will be utilized.

(7) Tree-cutting: Removal of existing trees is subject to the requirements of Chapter 283 of the

The proposed solar project will be installed in compliance with the requirements of Chapter 283 of the Town code. The Town of Cortlandt will contract an arborist to perform a forest stand delineation survey to quantify the number of trees to be removed in conjunction with the project. Reforestation requirements will be followed in compliance with Chapter 283 of the Town Code.

(8) Decommissioning:

- a. Solar Energy Systems that have been abandoned and/or not producing electricity for a period of one (1) year shall be removed at the Owner and/or Operator's expense, which at the Owner's option may come from any security made with the Town as set forth herein.
- b. A decommissioning plan signed by the owner and/or operator of the Solar Energy System shall be submitted by the applicant, addressing the following:
 - i. The cost of removing the Solar Energy System.

- The time required to decommission and remove the Solar Energy System and ancillary structures.
- iii. The time required to repair any damage caused to the property by the installation and removal of the Solar Energy System.

c. Security

- i. The deposit, execution, or filing with the Town Clerk of a cash, bond, or other form of security reasonably acceptable to the Town Attorney and/or the Director of the Department of Technical Services, shall be in an amount sufficient to ensure the good faith performance of the terms and conditions of the permit issued pursuant hereto and to provide for the removal and restorations of the site subsequent to removal. The amount of the bond or security shall be 125% of the cost of removal of the Tier 3 Solar Energy System and restoration of the property with an escalator of 2% annually for the life of the Solar Energy System. The decommissioning amount shall be reduced by the amount of the estimated salvage value of the Solar Energy System.
- ii. In the event of default upon performance of such conditions, after proper notice and expiration of any cure periods, the cash deposit, bond, or security shall be forfeited to the Town, which shall be entitled to maintain an action thereon. The cash deposit, bond, or security shall remain in full force and effect until restoration of the property as set forth in the decommissioning plan is completed.
- iii. In the event of default or abandonment of the Solar Energy System, the system shall be decommissioned as set forth herein.

A decommissioning plan will be provided to the Town of Cortlandt addressing how the solar system will be removed at end of life. The plan will also detail the time required to remove the solar array and associated appurtenances, currently estimated at 120 days.

A decommissioning bond will be provided to the Town of Cortlandt to cover removal of the installation and restoration of the site. The bond will be valued at 125% the cost of removal of the Tier 3 solar system, reduced by the system's salvage value, and based on costs provided by the Engineering, Procurement, and Construction Contractor that is installing the system. The bond will be placed in service in year 20 of the system life and will remain for the life of the system.

(9) Site Plan Approval: For any Solar Energy System requiring a Special Permit, site plan approval shall be required. The approval criteria are the same as set forth in Section 307 of the Town Code.

Prior to construction, the proposed solar project will obtain Site Plan Approval in compliance with Chapter 307 of the Town Code.

(10) Special Permit Standards

a. Lot Size: The Property on which the Tier 3 Solar Energy System is placed shall be at least ten (10) acres.

The proposed property is approximately 39 acres in size.

- b. Setbacks: The Tier 3 Solar Energy Systems shall be setback:
 - i. 100 feet from an abutting lot when the property is in a Commercial or Industrial District;
 - ii. 200 feet when the property is located in a Residential District. The Town Board, at its discretion, may vary the required dimensional setback of 200-ft to minimize environmental impacts created when locating ground-mounted solar energy systems within the dimensional regulations. In such instances the approving authority may vary the setback to 100 feet or 200 feet from the nearest habitable building, whichever distance is more restrictive. The burden of proof for the grant of such waiver shall always be upon the applicant.

The proposed project site is located in a Residential R-40 zoned district. The proposed solar project will maintain a minimum of a 200-foot setback from each parcel boundary.

- c. Height: No structure can exceed 25 feet or 2 stories.
 The proposed project will not exceed 25 feet in height.
- d. Minimum Landscape Coverage:
 - The Solar Energy System, as defined above, must comply with the minimum landscape coverage requirement of the underlying zoning district.
 - ii. The following component of a Tier 3 Solar Energy System shall be considered included in the calculations for lot coverage requirements:
 - Foundation systems, typically consisting of driven piles or monopoles
 or helical screws with or without small concrete collars.
 - All mechanical equipment of the Solar Energy System, including any pad mounted structure for batteries, switchboard, transformer, or storage cells.
 - 3. Paved access roads servicing the Solar Energy System.

The project will comply with the minimum landscape coverage requirements for the R-40 zoning district. A minimum of 60% of total lot area will be maintained as landscape coverage, based on the lot coverage components described.

e. Fencing Requirements: All mechanical equipment, including any structure for storage batteries, shall be enclosed by an 8-foot high fence with a self-closing and self-locking gate to prevent unauthorized access.

The proposed solar project, including mechanical equipment, will be enclosed within a chain link fence.

- f. Screening and Visibility: Applicants for Tier 3 Solar Energy Systems shall be required to:
 - i. Conduct a visual assessment of the visual impacts of the Solar Energy System on public roadways and adjacent properties. At a minimum, a line-of-site profile analysis shall be provided. Depending upon the scope and potential significance of the visual impacts, additional impact analyses, including for example a digital view-shed report, may be required to be submitted by the applicant.
 - ii. Submit a screening & landscaping plan to show adequate measures to screen through landscaping, grading, or other means so that views of Solar Panels and Solar Energy Equipment shall be minimized as reasonably practicable from public roadways and adjacent properties to the extent feasible.
 - iii. All ornamental, specimen or protected trees listed in 283 Attachment 1 that are removed must be replaced using a one to one ratio. All other trees shall be replaced in accordance with the requirements of Chapter 283 of the Town Code. Trees determined to be diseased, dead or an invasive species are not subject to this requirement.

A visual simulation analysis has been performed for the project from three vantage points and has determined that the project will not create a visual impact. A landscaping plan will be provided to the Town demonstrating that the project will comply with Chapter 283 of the Town Code.

- g. Agricultural Resources. For projects located on lands designated as Agricultural Districts by the Westchester County Department of Planning:
 - i. Any Tier 3 Solar Energy System located on these Agricultural Districts shall not exceed fifty (50)% of the area of Prime Farmland or Farmland of Statewide Importance on the parcel.
 - ii. To the maximum extent practicable, Tier 3 Solar Energy Systems located in these Agricultural Districts shall be constructed in accordance with the construction requirements of the New York State Department of Agriculture and Markets.
 - iii. Tier 3 Solar Energy System owners shall develop, implement, and maintain native vegetation to the extent practicable pursuant to a vegetation management plan by providing native perennial vegetation and foraging habitat beneficial to game birds, songbirds, and pollinators. To the extent practicable, when establishing perennial vegetation and beneficial foraging habitat, the owners shall use native plant species and seed mixes.

While the proposed solar project is not located within a Westchester County Department of Planning

established Agricultural District, the areas underneath the solar array will be replanted using a native low growth pollinator seed mix.

h. Ownership Changes. If the owner or operator of the Solar Energy System changes or the owner of the property changes, the special permit shall remain in effect, provided that the successor owner or operator assumes in writing all of the obligations of the special permit, site plan approval, and decommissioning plan. A new owner or operator of the Solar Energy System shall notify the zoning enforcement officer of such change in ownership or operator within 30 days of the ownership change.

Should ownership of the proposed solar project change, the Town will be notified in writing, with confirmation that the new owner will adhere to all conditions and requirements of the special permit, site plan, and decommissioning plan.

SECTION 3 **DECOMMISSIONING STRATEGY**

The Proposed Project, as a Tier 3 Solar Energy System, is permitted in a R-40 single family residential zone under the Town of Cortlandt Code, Chapter 255 – Solar Energy Systems, known as Local Law #8, adopted by the Town Board of the Town of Cortlandt December 11, 2018. Part of the requirements set forth by this law is a detailed and documented strategy for the decommissioning of the Tier 3 Solar Energy System in the future. The remainder of this section encompasses a written description of the future decommissioning strategy for this project prepared by Croton Solar, LLC





Croton Avenue Solar Project Decommissioning Plan

July 2019

Croton Solar, LLC

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Introduction

Croton Solar LLC proposes to construct and operate a ground mounted fixed tilt photovoltaic (PV) community solar system, approximately 3.0MWac in capacity. The Croton Avenue Solar Project (Project) is proposed to be located on a privately-owned parcel, located in the Town of Cortlandt, New York.

Ground-mounted solar facilities are designed, engineered and constructed to operate for at least 20 years and can operate up to 30 years or more. During construction, portions of the site may be compacted, excavated and graded for optimal installation and operation. This decommissioning plan outlines the steps that will be taken to remove the solar system and its associated appurtenances from the project site and return the parcel to conditions similar to pre-installation.

This Decommissioning Plan will be updated as necessary in the future to ensure that changes in technology and site restoration methods are taken into consideration.

System Decommissioning

Croton Solar LLC is responsible for decommissioning activities, as outlined in the conditions of permit approval by the local and state regulatory agencies. Decommissioning and restoration activities will align with current regulations at time of decommissioning, and conducted in accordance to applicable federal, state, and local regulation. At the end of its operational life, the entire system will be disconnected from the grid, disassembled and removed, and all materials will either be recycled or disposed of appropriately. Any necessary permits will be obtained from the Township prior to decommissioning activity.

Equipment and Material Removal

Croton Solar LLC will remove all above-ground equipment (solar module panels, brackets, support structures, inverters, transformers, concrete pads for equipment) and underground equipment (buried electrical wiring and conduits, concrete foundations), structures, fencing, and access roads. All equipment and materials will be evaluated to determine the appropriate facility for salvage, recycling, or disposal.

PV Modules

The PV modules will be disconnected from the inverters and removed from the steel racking system. The PV modules are made of silicon, glass, and aluminum and are not considered hazardous waste. PV modules will be recycled or resold on the market if determined to still be usable.

Associated Electrical Appurtenances

All associated electrical appurtenances (i.e. inverters, switchboards, transformers, meters) will be removed from their respective concrete pads or steel frames and disposed of at an approved facility.

Electric Wiring

All electric conductors made of copper and aluminum can be recycled. Above ground DC wires will be removed between the modules and inverters. Underground AC conductors will be pulled and removed. Above ground AC conductors back to the utility point of interconnection will be removed from the poles by the utility.

Racking Equipment and Fencing

Metal fencing and racking equipment will be removed and recycled at an appropriate facility. All driven posts will be removed.

Concrete Pad

Concrete pads will be excavated to a depth of two feet below grade, or the depth to require all rebar and foundation bolts. Clean concrete will be crushed and re-used either on or off site. The remaining excavation will be filled with clean material, of similar character to surrounding soils. The soils will be stabilized and reseeded.



Access Road

If allowable by the Town, the access road will remain in place of future use on the site. If required to be removed, gravel roads will be stripped of stone and any geotextile or underlying materials. Clean stone will be reused if possible, or otherwise disposed of at a proper facility, along with geotextile materials. Any asphalt roads will be broken up and similarly disposed of. If the underlying soils are compacted, these will be loosened, stabilized, and reseeded.

Disposal and Recycling of Materials

All hazardous wastes will be disposed of in accordance with laws in effect at the time decommissioning is performed. Any solid waste generated during system dismantling or demolition will be disposed of as necessary to comply with the solid waste regulations then in place.

Site Restoration

The site will be restored to a state consistent with its preconstruction condition. Any necessary construction stormwater permits will be obtained prior to decommissioning, and erosion and sediment control best management practices will be installed on site, as needed. After equipment is removed from site, soils will be de-compacted, and excavations will be filled with materials similar to soils on site. Any disturbed areas will be reseeded and erosion and sediment control BMPs will remain in place until the site is stabilized.

Stakeholder Notification and Construction

Decommissioning activities will require the use of equipment and vehicles similar to construction activity. As necessary, interested stakeholders, such as adjacent landowners, will be notified prior to the start of work on site. As noise may be temporarily elevated by construction equipment and vehicles during decommissioning, activities will only be conducted during accepted Town work hours. The site will be kept orderly and clean of refuse.

Decommissioning activity is anticipated to be completed within 120 days.

Decommissioning Bond and Abandonment

A decommissioning bond will be provided to the Town of Cortlandt to cover removal of the installation and restoration of the site. The bond will be valued at 125% the cost of removal of the Tier 3 solar system, reduced by the system's salvage value, and based on costs provided by the Engineering, Procurement, and Construction Contractor that is installing the system. The bond will be placed in service in year 20 of the system life and will remain for the life of the system.

In the event the system is abandoned and/or not producing electricity for a period of one year, the Town may use this decommissioning bond for removal of the system.

SECTION 4 NOISE ORDINANCE COMPLIANCE

The Proposed Project is not expected to result in significant adverse noise impacts at nearby sensitive receptors and is not expected to exceed ambient noise levels according to the noise control law noise level limits as defined in the Town of Cortlandt Code, Chapter 197. A distance of 200 feet has been used in the following distance attenuation calculation (**Table 2**) according to the minimum required setback distances between solar panels and the property line or nearest habitable building, whichever distance is more restrictive. as defined in Section 8 of Chapter 255 – Solar Energy Systems (Local Law #8) of the Town of Cortlandt Code.

TABLE 2 - NOISE LEVELS

	Point 1 (Adjacent to Inverters)	Point 2 (Per Chapter 255 — Solar Energy Systems)	Comments
Distance from the Source	1 meter (3.28 feet)	60.96 meters (200 feet)	Assumed distance of 1 meter is intended to simulate noise levels immediately adjacent to the inverters. A distance of 200 feet has been used according to the minimum required setback distances between solar panels and the property line or nearest habitable building.
Sound Pressure Level (dB)	65 max.	29.3	See Appendix A for solar inverter specifications.

- The proposed noise level at 200 meters from the inverters is anticipated to be 29.3 dB. According to the Town of Cortland Code, Chapter 197 Noise, Section 14 Residential Districts, the following requirements apply:
 - O During the hours of 8:00 a.m. to 6:00 p.m., noise levels within any residentially-zoned district shall not exceed sixty-five (65) dBs.
 - Ouring the hours of 6:00 p.m. to 8:00 a.m., noise levels within any residentially-zoned district shall not exceed fifty-five (55) dBs.
- Therefore, the proposed noise level will be well within the requirements and constraints set forth by the Town of Cortlandt.

SECTION 5 TREE REMOVAL STATEMENT

The Proposed Project naturally necessitates the clearing of trees from the site for proper installation and functioning of the Tier 3 Solar Energy System. Despite necessitating the removal of several hundred trees, the Proposed Project is beneficial to the surrounding community as a whole. A tree removal permit will be required as a part of the Proposed Project. See **Table 3** for information regarding tree preservation, removal, and replantation. The proposed tree removal practices comply with the Town of Cortlandt tree ordinance as defined in Chapter 283, Section 7 — Standards of Approval of the Town of Cortlandt Code. See **Table 4** for a demonstration of compliance.

TABLE 3 - TREE PRESERVATION AND REPLANTATION

Description	Quantity
Total Existing Trees Onsite	2,250
Trees Proposed to be Removed	594
Proposed Meaningful Trees to be Replanted *	91
Net Trees to be Removed	503

^{*} See report prepared by Tracy Chalifoux, LLC (pending)

TABLE 4 - TREE STANDARDS FOR APPROVAL

283-7 Standards for Approval.		
283-7A1a: Notwithstanding any other factors, the removal of a regulated tree may be favored if the tree is located near existing or proposed improvements, especially if the tree is within three feet of an existing or proposed sidewalk or driveway.	Complies, trees within three feet of the proposed limited-use pervious access road and the proposed solar array are proposed to be removed. See Sheet TRP-3.1 in the Plan Set.	
283-7A1b: Notwithstanding any other factors, the removal of a regulated tree may be favored if the tree is located near existing or proposed improvements, especially if the tree is within 10 feet of an existing cesspool, dry well, leaching pit, septic tank or field, or other subsurface improvement.	Complies, trees within 10 feet of existing and proposed subsurface improvements are proposed to be removed. See Sheet TRP-3.1 in the Plan Set.	
283-7A1c: Notwithstanding any other factors, the removal of a regulated tree may be favored if the tree is located near existing or proposed improvements, especially if the tree is within 10 feet of any other existing or proposed permanent structure. A permanent structure is one that requires a building permit and certificate of occupancy or a certificate of compliance under the NYS Building Code and is not a shed.	Complies, trees within 10 feet of existing or proposed structures to be demolished are proposed to be removed. No permanent structures (buildings) are proposed as part of this project. See Sheet TRP-3.1 in the Plan Set.	
283-7A1d: Notwithstanding any other factors, the removal of a regulated tree may be favored if the proposed	Complies, the existing access driveway is proposed to remain and the proposed limited-	

283-7 Standards for Approval.

subsurface improvement, structure, sidewalk, driveway, or roadway cannot be reasonably relocated.

use pervious access road cannot be reasonably relocated.

283-7A2: Notwithstanding any other factors, the removal of a regulated tree may be favored if the tree removal is necessary to achieve compliance with state, county, or local standards for sight lines, driveways, or intersections.

Complies, no sight lines, driveways, or intersections are proposed as part of this project.

283-7A3: Notwithstanding any other factors, the removal of a regulated tree may be favored if the tree removal is consistent with good horticultural or vegetation management and will not have an adverse effect on an ecological system.

Complies, proposed tree removal will not have an adverse effect on the existing ecological system.

283-7A4: Notwithstanding any other factors, the removal of a regulated tree may be favored if the tree to be removed, due to disease, blight, infestation, storm damage, accident, or other condition, causes undue hardship for the property owner to maintain.

Complies, trees proposed to be removed due to disease, blight, infestation, storm damage, accident, or other condition would cause undue hardship for the property owner to remain. See Appendix B for information pertaining to trees proposed to be removed.

283-7A5: Notwithstanding any other factors, the removal of a regulated tree may be favored if the tree removal is limited to non-native species of trees.

Complies, see Appendix B for information pertaining to non-native trees proposed to be removed.

283-7A6: Notwithstanding any other factors, the removal of a regulated tree may be favored if the tree removal will have a positive effect on wildlife habitat.

Complies, no trees proposed to be removed will have any measurable effect, positive or negative, on wildlife habitat. See Appendix B for information pertaining to trees proposed to be removed.

283-7A7: Notwithstanding any other factors, the removal of a regulated tree may be favored if the property owner will replant replacement trees of a similar species or add other vegetation to offset the negative effects of the tree removal to the satisfaction of the approving authority.

Complies, planting of replacement trees of similar species and the planting of other vegetation to offset the negative effects of tree removal are proposed as part of this project. See Sheet TRP-3.1 in the Plan Set.

283-7B1: With consideration of the above factors, the proposed tree removal may be denied or granted with conditions after consideration of whether the tree is a protected or specimen tree unless there is no feasible alternative to the proposed activity.

Complies, see Appendix B for information pertaining to trees proposed to be removed. There are no specimen trees to be impacted by the Proposed Project.

283-7B2: With consideration of the above factors, the proposed tree removal may be denied or granted with conditions after consideration of whether the tree removal will have a significant negative effect upon, among other things: erosion potential and drainage patterns in the vicinity, growth of existing vegetation, property values and aesthetics of nearby properties, and wildlife habitat.

Complies, proposed tree removal will not have any significant negative effect upon erosion potential and drainage patterns in the vicinity, growth of existing vegetation, property values and aesthetics of nearby properties, and wildlife habitat.

283-7B3: With consideration of the above factors, the proposed tree removal may be denied or granted with conditions after consideration has been given to preserving

Complies, consideration has been given to preserving specimen trees and protected trees where feasible and practical. There are no specimen or protected trees proposed to be

283-7 Standards for Approval.		
specimen trees and protected trees where feasible and practical.	removed. See Appendix B for information pertaining to trees proposed to be removed.	
283-7B4: The approving authority may require the replanting of trees as a condition of permit approval and may establish standards for such replanting.	Complies, replanting of trees is proposed as part of this project. See Sheet TRP-3.1 in the Plan Set.	
283-7C1: The planning, design and development of buildings shall provide the maximum in structural safety and human enjoyment while adapting the site to and taking advantage of the best use of the natural terrain.	Complies, the proposed project has been adapted to and takes advantage of the best use of the natural terrain. No regrading or earth movement is proposed as a part of this project.	
283-7C2: Roads and driveways shall follow the natural topography to the greatest extent possible and shall be consistent with other applicable regulations of the Town of Cortlandt and current engineering practices.	Complies, the proposed limited-use pervious access road shall follow the existing terrain for its entire length. No regrading or earth movement is proposed as a part of this project.	
283-7C3: Any regrading shall blend in with the natural contours and undulations of the land.	Complies, no regrading or earth movement is proposed as a part of this project.	
283-7C4: Cuts and fills shall be rounded off to eliminate sharp angles at the top, bottom and sides of regraded slopes.	Complies, no regrading or earth movement is proposed as a part of this project.	
283-7C5: The angle of cut and fill slopes shall not exceed a ratio of one vertical to two horizontal except where retaining walls, structural stabilization or other methods acceptable to the Director of Technical Services are used.	Complies, no regrading or earth movement is proposed as a part of this project.	
283-7C6: Any lakes or ponds that are created shall have a sufficient depth and inflow of water to minimize the possibility of stagnation and excessive aquatic growth.	Complies, no lakes are ponds will be created as a part of this project.	
283-7C7: Topsoil removed shall be replaced to a depth of at least four inches over all exposed ground surfaces except rock, and said restored surface shall be planted or seeded and mulched repeatedly as necessary until the area is stabilized.	Complies, topsoil is not proposed to be removed. Disturbed areas are proposed to be replaced to a depth of at least four inches and the restored surface is proposed to be planted, seeded, and mulched repeatedly as necessary.	
283-7C8: There shall be no processing of excavated materials by a rock crusher or similar on the premises.	Complies, no processing of excavated materials is proposed on the premises.	
283-7C9: No excavation shall be made so as to undermine, weaken or deprive support of adjacent land.	Complies, no excavation is proposed as a part of this project.	
283-7C10: No removal of earth from the ground shall be made so as to prevent or interfere with the orderly development of residential, business, manufacturing or public purposes or other lands in the vicinity or as to unreasonably delay travel from one place to another or as to make unduly difficult or substantially increase the cost of the installation of public utilities or other public services or as	Complies, no regrading or earth movement is proposed as a part of this project.	

283-7 Standards for Approval.

to substantially depreciate the value of real property in the vicinity.

SECTION 6 WETLAND MITIGATION STATEMENT

The Proposed Project is committed to reducing impacts attributed to the construction of the Tier 3 Solar Energy System to the site's plant and animal communities by protecting those areas of the site that were found to have the most valuable wildlife habitat and conservation value. The wetland system on site is an area worthy of protection. The Applicant recognizes this, and the project has been designed to avoid fully any new disturbance to the onsite wetlands and minimal disturbance to the wetland buffer areas.

There is limited disturbance within the buffer of wetland "C." This disturbance is for the removal of existing structures and impervious areas and the remediation of the area with plantings of indigenous plant species and an appropriate seed mix. The project would maintain the integrity of the habitat and actually improve upon the existing condition with the proposed wetland buffer enhancement. The potential impacts to the wetland system as a result of the Proposed Project are minimal and immeasurable and involve the restoration and enhancement of existing disturbed buffer land.

The following is a discussion of the existing wetlands and wetland buffer area onsite and the mitigation practices that are proposed in the buffer disturbance areas. See **Table 5** for a breakdown of the areas of the existing wetlands onsite. See **Table 6** for a breakdown of the Wetland Standards for Approval according to the Town of Cortlandt Code, Chapter 179 – Wetland Mitigation.

A. Existing Conditions - Wetlands

- The project site contains a wetland system that is located in the southeast portion of the site. The wetland is locally controlled and not subject to the requirements of the NYSDEC. The wetland system flows southeasterly to Croton Avenue and is under the control and regulatory authority of the Town of Cortlandt. This wetland drains into a culvert that crosses southerly under Croton Avenue to a watercourse system to the south. Off site to the east there appears to be a wetland system that flows northeasterly through the lands of the Walter Panas High School and is situated within the boundary of the NYCEP watershed. This section of wetland is not within 100 feet of any proposed development and falls under the jurisdiction of both the Town of Cortlandt and the NYCEP. The proposed project would not result in any impacts to this off-site wetland.
- The remainder of the project site is without any wetlands or watercourses. Off site to the north is Apple Hill. To the west and south, the project side is bounded by Croton Avenue. The northeasterly portion of the site also does not contain any wetlands or watercourses.
- The wetlands on site were delineated in conformance to the New York State, Federal, and Town of Cortlandt criteria, Chapter 179 Wetland Mitigation of the Town Code. See Table 13 for the onsite wetlands and their associated areas.

TABLE 2 – EXISTING WETLANDS

Wetland	Area
A	0.4 ac.
B	1.0 ac.

July 17, 2019

Wetland	Area
C	0.2 ac.
D	0.1 ac.
Total	1.7 αс.

- The wetland buffer area within the Project Site property is approximately 199,483 square feet or 4.56 acres.
- The wetlands are not subject to and are not identified as NYSDEC wetlands according to a review of their published maps and therefore do not have a NYSDEC water classification associated with them.

B. Potential Significant Adverse Impacts and Related Mitigation

- A wetland enhancement plan is proposed as part of the project. The enhancement plan includes the removal of impervious areas, buildings and structures that are currently located in the regulated wetland buffer. These areas will be replanted with native grasses in order to re-establish a vegetative ground cover and restore those areas to facilitate the creation of new wildlife habitat and enhance the biodiversity of the project site.
- Pursuant to Section 179-6(B) of the Town of Cortlandt Town Code, Standards for Approval for a Wetland Permit, *Table 6* offers the standards for approval and the Project compliance.

TABLE 6 - WETLAND MITIGATION STANDARDS FOR APPROVAL

179-6(B) Standards	for Approval.		
Criteria for approval, disapproval or approving with modifications. In approving, disapproving or approving with modifications, the approval authority, based on evaluations/consultations from the Environmental Monitor and/or the CAC, and/or other Town Designated Consultants involved with the project, will issue findings which shall address the following:			
(1) The environmental impact of the proposed action	The environmental impact of the proposed action has been kept to a minimum. The proposed wetland buffer impacts are required to remove existing structures and impervious covers. These areas would be re-vegetated with indigenous plantings and an appropriate seed mix.		
(2) The alternatives to the proposed action.	The alternatives to the proposed action have similar disturbances, potential impacts and mitigation measures.		
(3) Irreversible and irretrievable commitments of resources that would be involved in the proposed activity.	There are no irreversible and irretrievable commitments of resources that would be involved in the proposed activity.		
(4) The character and degree of injury to or interference with safety, health or the reasonable use of property that is caused or threatened.	The proposed action will not cause any injury to or interference with safety, health or the reasonable use of the property.		

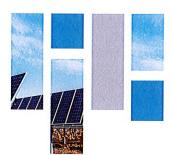
179-6(B) Standards for Approval.		
(5) The suitability or unsuitability of such activity to the area for which it is proposed.	The activity is suitable for the area where it is proposed. Adjoining uses are consistent with the proposed use of the property.	
(6) The effect of the proposed activity with reference to the protection or enhancement of several functions of wetlands, water bodies and watercourses.	The proposed activity will have a minimal effect to the wetlands, water bodies or watercourses currently on the property, and will preserve these existing features to the greatest extent practicable.	
(7) The availability of preferable alternative locations of the subject parcel or proposed action.	There are no preferable alternative locations of the proposed action on the subject parcel.	
(8) The availability of mitigation measures that could feasibly be added to the plan or action	Appropriate enhancement measures are provided that include the proposed buffer enhancement, soil erosion and sediment control program, the stormwater management program all of which are designed to protect the wetland system as much as is practicable.	

Based on the above assessment of the standards for approval from Section 179 of the Town of Cortlandt Code, the proposed project is consistent with the standards of the Wetland Ordinance. There are no anticipated detrimental impacts to the wetland systems as a result of the Tier 3 Solar Energy System. There is however a proposal to provide a wetland buffer enhancement-planting program upon the removal of the impervious structures currently within the buffer area. Therefore, no mitigation is necessary for the wetland system and an improvement to the wetland buffer is proposed as part of this project.

SECTION 7 INTERNATIONAL FIRE CODE COMPLIANCE STATEMENT

The following International Fire Code Compliance Statement was prepared by Dimension Renewable Energy for the Proposed Project and was dated July 12, 2019. See **Appendix C** for proposed KnoxBox specifications.





Croton Avenue Solar Project: International Fire Code Compliance Statement

The proposed photovoltaic system will be fully compliant with all applicable codes, including but not limited to local adoptions of the IBC, IFC and NFPA.

The proposed system includes a full perimeter fence which will be a minimum 8' high chain link equivalent and will only be accessed by authorized and trained personnel. Fire Access roads are not required for ground mounted solar arrays, per the exception to IFC 503.1.1. This is an unoccupied facility that does not require Fire Department entry or intervention in case of a fire internal to the facility. A minimum 16' wide gravel access road will be provided to each electrical equipment area, with turnarounds and bearing capacity sufficient for Fire Apparatus, per specifications of IFC 503.2. There will be a 20' wide double swing gate in the fence at the access road entrance. That gate will be equipped with a surface mounted KnoxBox as required by the Fire Authority for access in case of emergency.

There will be 20' clearance from the solar modules to the perimeter fence, which will be mowed and maintained clear of brush. This clearance exceeds the 10' minimum required per IFC 605.11.2.

Additionally, there will be 13' between each row of PV modules, to allow for adequate access by maintenance vehicles. The entire area inside the fence will be maintained with low grass and no brush.

Please refer to the preliminary site plan which shows the location of the road, fence, and associated size and clearances.

All applicable sections of the National Electric Code will be followed.

SECTION 8 STEEP SLOPE FINDINGS STATEMENT

While a certain amount of steep slope disturbance is unavoidable, the extent of such disturbance will be limited to the maximum extent practicable. See **Table 5** for a breakdown of existing slope ranges and see **Table 6** for a breakdown of the proposed steep slope disturbances. An issue for consideration includes the potential development on or near the steeply sloped western flank of the Site. There would be approximately 18,469 square feet of disturbance to slopes greater than 15% on the entire Project Site. Any potential impacts from steep slope disturbance would be adequately mitigated through a Soil Erosion and Sediment Control Program. See **Table 7** for a comparison of the slope categories and disturbance areas. The Croton Solar, LLC project complies with and meets the intended goals of Chapter 259 of the Town Code, "Steep Slopes". However, a Steep Slopes permit is required from the Town Planning Board for the above described disturbances.

TABLE 7 - EXISTING SLOPE RANGES

Slope Range	Area	% of property
0-15%	27.01 ac.	75.3%
15% - 20%	3.25 ac.	9.0%
20% - 25%	1.71 ac.	4.7%
>25%	3.94 ac.	11.0%

TABLE 8 – SLOPE DISTURBANCES

Slope Range	Area	% of slope range
0-15%	4.387 ac.	16.2%
15% - 20%	0.197 ac.	6.1%
20% -25%	0.105 ac.	6.2%
>25%	0.122 ac.	3.1%
Total	4.811 ac.	

TABLE 9 - STEEP SLOPE STANDARDS FOR APPROVAL

259-6 Standards for Approval.		
259-6A: Disturbance or alterations of trees and forests and topographic disturbances shall be in accordance with this ordinance and other applicable ordinances of the Town.	Complies, only those trees absolutely necessary to be removed will be taken down. Additionally, disturbances to slopes in excess of 15% account for approximately 0.44 acres or approximately 8.6% of the total project disturbance of 5.05 acres. The areas of steep slope disturbance are predominantly limited to areas along the western edge of the property where solar panels are proposed. All disturbances are minimal in scope.	
259-6B: Activities within wetlands shall be in accordance with Chapter 179 of the Town Code.	Complies, there is no wetland disturbance nor is there any wetland buffer disturbance associated with the proposed project. There is a small amount of wetland buffer disturbance required to remove existing impervious areas currently within the wetland buffer. This area will be replanted with indigenous plantings and allowed to restore its buffer functions. The project will provide a benefit to downstream surface waters by replacing existing impervious surfaces with vegetation.	
259-6C: The proposed activity will not result in any creep, sudden slope failure or additional erosion.	Complies, there is no regrading associated with the proposed project that would result in any creep, sudden slope failure, or additional erosion. The existing slope is stable.	
259-6D: The proposed activity will not adversely affect existing or proposed wells or sewage disposal systems.	Complies, the area is served by a public water and there is no disturbance to any land within 100 feet of any off-site sewage disposal system. Such utilities are not proposed to be added or modified onsite as a part of this project.	
259-6E: The proposed activity will not affect any endangered or threatened species of flora or fauna.	Complies, based on the site-specific Biodiversity and Natural Resource Assessment prepared for the project site as part of the previous subdivision approval, see Appendix D. The Assessment found that the Project Site does not contain any threatened or endangered species of flora or fauna. Additionally, pursuant to the NYSDEC Natural heritage Program report, there are no endangered or threatened species on site or in close proximity to the Project Site.	
259-6F: The activity is consistent with principles and recommendations of the latest Town Master Plan.	Complies, the parcel is located in a single-family residential zoning district. Chapter 255 of the Town of Cortlandt Code (Local Law #8) permits the construction of ground-mounted solar energy systems in an R-40 Zoning District. The proposed project is consistent with the Zoning Ordinance and the Town's Comprehensive Master Plan.	

259-6 Standards for Approval.

259-6G: The proposed activity is the minimum disturbance necessary to allow the property owner a reasonable use of the property.

Complies, the proposed development as shown complies with the Zoning Ordinance and provides the owner with a reasonable use of the property.

259-6H: Conformance with the following specific items is required:

259-6H1: The planning, design and development of buildings shall provide the maximum in structural safety, slope stability and human enjoyment while adapting the affected site to, and taking advantage of, the best use of the natural terrain and aesthetic character.

Complies, no buildings are proposed as part of this project. The topography is to remain unaltered and thus the proposed project provides maximum slope stability that already exists. The proposed project takes maximum advantage of the site's exposure to the sun via its natural terrain. Slopes will remain stable during construction via erosion and sediment control measures.

259-6H2: The terracing of building sites, including the mounding of septic tile fields, shall be kept to an absolute minimum.

Complies, there is no terracing proposed.

259-6H3: Roads and driveways shall follow the natural topography to the greatest extent possible in order to minimize the potential for erosion and shall be consistent with other applicable regulations of the Town of Cortlandt and current engineering practices.

Complies, the proposed limited use pervious access road is to follow the natural topography for the full length. It is proposed that the limited use pervious access road will join with part of the existing access driveway to remain, which will also follow the natural topography unaltered as it does presently.

259-6H4: Replanting shall consist of indigenous vegetation and shall replicate the original vegetation on the site as much as possible.

Complies, general landscape plantings will be provided and will consist of indigenous plant varieties per Section 259-6H4.

259-6H5: The natural elevations and vegetative cover of ridgelines shall be disturbed only if the crest of a ridge and the tree line at the ridge remains uninterrupted. This may be accomplished either by positioning buildings and areas of disturbance below a ridgeline or by positioning buildings and areas of disturbance at a ridgeline so that the elevation of the roofline of the building is no greater than the elevation of the natural tree line. However, under no circumstances shall more than one hundred (100) feet along the ridgeline, to a width of one hundred (100) feet generally centered on the ridgeline, be disturbed.

Complies, there are no ridgelines on site and there are no buildings proposed as part of this project. The site is to remain as vegetated as possible.

259-6H6: Any re-grading shall blend in with the natural contours and undulations of the land.

Complies, no re-grading is proposed as part of this project.

259-6H7: Cuts and fills shall be rounded off to eliminate sharp angles at the top, bottom and sides of re-graded slopes.

Complies, no cuts or fills are proposed as part of this project.

259-6H8: The angle of cut and fill slopes shall not exceed a slope of one (1) vertical on two (2) horizontal except

Complies, all disturbed slopes greater than 1 vertical on 2 horizontal will be provided with a

259-6 Standards for Approval.

where retaining walls, structural stabilization or other methods acceptable to the Town Engineer are used.

geo-textile erosion control blanket. No cuts or fills are proposed as part of this project.

259-6H9: Tops and bottoms of cut and fill slopes shall be set back from structures a distance that will ensure the safety of the structure in the event of the collapse of the cut or fill slopes. Generally, such distance shall be considered to be six (6) feet plus one-half (1/2) the height of the cut or fill. Nevertheless, a structure built on a slope or at the toe of a slope is permitted if it is properly designed to retain the slope and withstand the forces exerted on it by the retained slope.

Complies, no re-grading is proposed as part of this project. The existing slope is stable onsite. There will not be any adverse impact on the proposed solar panels as a result of the nature of the existing topography.

259-6H10: Disturbance of rock outcrops shall be by means of explosive only if labor and machines are not effective and only if rock blasting is conducted in accordance with all applicable regulations of the Town of Cortlandt and the State of New York.

Complies, no rock outcrops will be disturbed as a result of this development.

259-6H11: Disturbance of steep slopes shall be undertaken in workable units in which the disturbance can be completed and stabilized in one (1) construction season so that areas are not left bare and exposed during the winter and spring thaw periods (December 15 through April 15).

Complies, the relatively minor amounts of steep slopes to be constructed on will be completed and stabilized in compliance with Section 259-6H11.

259-6H12: Disturbance of existing vegetative ground cover shall not take place more than fifteen (15) days prior to grading and construction.

Complies, see Erosion & Sediment Control Notes and Slope Stabilization Details on Sheet ESC-4.1 of the Plan Set.

259-6H13: Temporary soil stabilization, including, if appropriate, temporary stabilization measures such as netting or mulching to secure soil during the grow-in period, must be applied to an area of disturbance within two (2) days of establishing the final grade, and permanent stabilization must be applied within fifteen (15) days of establishing the final grade.

Complies, see Erosion & Sediment Control Notes and Slope Stabilization Details on Sheet ESC-4.1 of the Plan Set.

259-6H14: Soil stabilization must be applied within two (2) days of disturbance if the final grade is not expected to be established within sixty (60) days.

Complies, see Erosion & Sediment Control Notes and Slope Stabilization Details on Sheet ESC-4.1 of the Plan Set.

259-6H15: Measures for the control of erosion and sedimentation shall be undertaken consistent with the Westchester County Soil and Water Conservation District's Best Management Practices Manual for Erosion and Sediment Control and New York State Guidelines for Urban Erosion and Sediment Control, as amended, or its equivalent satisfactory to the approval authority.

Complies, see Erosion & Sediment Control Notes and Slope Stabilization Details on Sheet ESC-4.1 of the Plan Set.

259-6H16: All proposed disturbance of steep slopes shall be undertaken with consideration of the soils limitations characteristics contained in the Identification Legend, Westchester County Soils Survey, 1989, as prepared by the Westchester County Soil and Water Conservation District, in

Complies, see Erosion & Sediment Control Notes and Slope Stabilization Details on Sheet ESC-4.1 of the Plan Set.

259-6 Standards for Approval.		
terms of recognition of limitation of soils on steep slopes for development and application of all mitigating measures and as deemed necessary by the approval authority.		
259-6H17: Topsoil shall be stripped from all areas of disturbance, stockpiled and stabilized in a manner to minimize erosion and sedimentation and replaced elsewhere on the site at the time of final grading. Stockpiling shall not be permitted on slopes of greater than ten percent (10%).	Complies, see Erosion & Sediment Control Notes and Slope Stabilization Details on Sheet ESC-4.1 of the Plan Set.	
259-6H18: No organic material or rocks with a size that will not allow appropriate compaction or cover by topsoil shall be used as fill material. Fill material shall be no less granular than the soil upon which it is placed and shall drain readily.	Complies, no fill materials are proposed as part of this project.	
259-6H19: Compaction of fill materials in fill areas shall be such to ensure support of proposed structures and stabilization for intended uses.	Complies, no fill materials are proposed as part of this project.	
259-6l: Burder	of Proof	
259-611: The applicant shall prove compliance with each of the above noted conditions and standards.	Complies, see the responses above and Plan Set for the project prepared by Cronin Engineering P.E., P.C.	
259-612: On lots with grades in excess of 30% the applicant shall have the additional burden of demonstrating that the applicant's circumstances are compelling and exceptional and demonstrating that no reasonable use of the lot is possible without disturbance to the 30% slopes.	Complies, there is no disturbance to any slope 30% or greater.	

SECTION 9 CORRESPONDENCE WITH CON EDISON

The following is a record of the correspondence that has been submitted to Con Edison related to the Proposed Project as it pertains to utility upgrades and the ability of the distribution system to accommodate the proposed development. As of June 18, 2019, Croton Solar, LLC was granted approval to proceed with a Coordinated Electric System Interconnection Review (CESIR) study as part of Case Number MC-420697.

From: TUCCIM@coned.com < TUCCIM@coned.com>

Sent: Tuesday, June 18, 2019 12:12 PM

To: Interconnection < interconnection@dimension-energy.com >

Cc: Interconnection < interconnection@dimension-energy.com>

Subject: Status Update for Customer To-Do List - 200 Croton Ave, Cortlandt, NY 10567 [MC-420697]

Jamal Batar

3280 Peachtree Rd NE Atlanta, GA 30305

Re: CESIR for Interconnection of Distributed Generation - Application Package Reviewed and Accepted

Date:

June 18, 2019

Service At:

200 Croton Ave Cortlandt, NY 10567

Case Number: MC-420697

Dear Jamal Batar,

Thank you for submitting your request for a Coordinated Electric System Interconnection Review (CESIR) of your 3,100 kW distributed generation project at the above address. The Con Edison Energy Services team has completed the review of your application and accompanying documents listed below.

Your application package meets the minimum requirements to proceed with the CESIR Study.

In accordance with the New York State Standardized Interconnection Requirements, the Con Edison Energy Services team will complete your CESIR study and provide a CESIR report within 60 business days.

The following documentation was provided as part of your application package and has been **'Reviewed'** by the Con Edison Energy Services team.

3 Line Diagram	Accepted for Review	6/18/2019
Inverter Verification Testing Procedure	Resolved-Reviewed	6/17/2019
Fault Mitigation and Step Up Transformer Information	Resolved-Reviewed	6/17/2019
Appendix B	Resolved-Reviewed	6/17/2019
3 Line Diagram	Resolved-Rejected	6/17/2019
Appendix J	Resolved-Reviewed	6/12/2019
Appendix B	Resolved-Rejected	6/12/2019
Fault Mitigation and Step Up Transformer Information	Resolved-Rejected	6/12/2019

Site Plan	Resolved-Reviewed	6/12/2019
3 Line Diagram	Resolved-Rejected	6/12/2019
Inverter Certificate of Compliance	Resolved-Reviewed	6/12/2019
Inverter Verification Testing Procedure	Resolved-Rejected	6/12/2019
Inverter Manufacturer Spec Equipment Cut Sheet - UL 1741	Resolved-Reviewed	6/12/2019
Site Plan	Resolved-Rejected	5/20/2019
3 Line Diagram	Resolved-Rejected	5/20/2019
Customer Letter Of Authorization	Resolved-Reviewed	5/20/2019
Application for Community Distributed Generation (CDG) Service	Resolved-Reviewed	5/20/2019
Upload Pre-Application Report	Accepted for Review	5/20/2019
Original Work Request	Resolved-Reviewed	5/20/2019
Appendix A (Standard Contract)	Resolved-Approved	5/17/2019

You can track the progress of your CESIR request and provide any further required information or documents by logging into the <u>Con Edison Power Clerk</u> web portal.

If you have any further questions or concerns, or feel you are receiving this notice in error, please contact your Con Edison Energy Services representative via the Power Clerk web portal or by using the contact information below.

Sincerely, Michael Tucci

Customer Project Manager A Con Edison Company of NY Westchester Energy Services

511 Theodore Fremd Avenue, 2nd Floor Rye, NY 10580-1432

TUCCIM@coned.com (W) 914-925-6578

SECTION 10 CONSTRUCTION COST ESTIMATE

The following **Table 8** is a preliminary cost estimate for the Proposed Project prepared by Croton Solar, LLC. The figures displayed are currently indicative and are not demonstrative of a contracted or verified construction cost estimate. The figures are likely to change in the future as the Proposed Project is developed further.



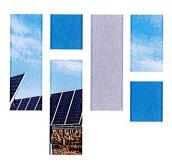


TABLE 10 - CONSTRUCTION COST ESTIMATE

Preliminary Approximation	of Construction Costs for Croton Avenue Solar Project
Electrical Construction	\$2,656,800.00
Civil Construction	\$587,175.00
Total	\$3,243,975.00

APPENDIX A

- SOLAR INVERTER SPECIFICATIONS
 - CHINT POWER SYSTEMS AMERICA 100/125kW, 1500Vdc STRING INVERTERS FOR NORTH AMERICA



100/125kW, 1500Vdc String Inverters for North America



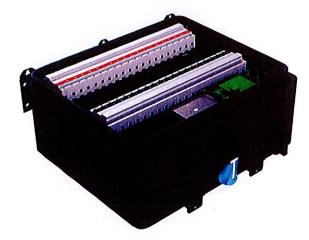
CPS SCH100/125KTL-DO/US-600

The 100 & 125kW medium power CPS three phase string inverters are designed for ground mount applications. The units are high performance, advanced and reliable inverters designed specifically for the North American environment and grid. High efficiency at 98.8% peak and 98.5% CEC, wide operating voltages, broad temperature ranges and a NEMA Type 4X enclosure enable this inverter platform to operate at high performance across many applications. The CPS 100/125kW products ship with the standard wire-box, each fully integrated and separable with touch safe fusing, monitoring, and AC and DC disconnect switches. The CPS Flex Gateway enables communication, controls and remote product upgrades.

Key Features

- NEC 2014/17 compliant & UL listed Arc-Fault circuit protection
- Touch safe DC Fuse holders adds convenience and safety
- CPS Flex Gateway enables remote FW upgrades
- Integrated AC & DC disconnect switches
- 1 MPPT with 16 and 20 inputs for maximum flexibility
- Copper and Aluminum compatible AC connections

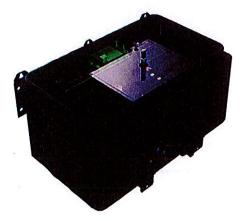
- NEMA Type 4X outdoor rated, tough tested enclosure
- Advanced Smart-Grid features (CA Rule 21 compatible)
- kVA Headroom to deliver full Active Power @ 0.95PF
- Generous 1.5 DC/AC Inverter Load Ratio
- Separable wire-box design for fast service
- Standard 10 year warranty with extensions to 20 years



D. 100

100/125kW Standard Wire-box





100/125kW Centralized Wire-box



Model Name

DC Input

Max. PV Power

Max. DC Input Voltage

Operating DC Input Voltage Range Start-up DC Input Voltage / Power

Number of MPP Trackers MPPT Voltage Range

Max. PV Input Current (Isc x1.25)

Number of DC Inputs DC Disconnection Type DC Surge Protection

AC Output

Rated AC Output Power

Max. AC Output Power¹

Rated Output Voltage Output Voltage Range² Grid Connection Type3

Nominal AC Output Current @600Vac

Rated Output Frequency Output Frequency Range²

Power Factor

Current THD

AC Disconnection Type AC Surge Protection

System

Topology Max. Efficiency

CEC Efficiency

Stand-by / Night Consumption

Environment

Enclosure Protection Degree

Cooling Method

Operating Temperature Range

Non-Operating Temperature Range⁴ Operating Humidity

Operating Altitude Audible Noise

Display and Communication

User Interface and Display

Inverter Monitoring Site Level Monitoring Modbus Data Mapping

Remote Diagnostics/FW Upgrade Functions

Mechanical

Dimensions (WxHxD)

Mounting/Installation Angle

AC Termination⁵

DC Termination

Fused String Inputs (5 per MPPT)

Safety

Safety and EMC Standard

Grid Standard⁶

Smart-Grid Features

Warranty Standard

Extended Terms

CPS SCA100KTL-DO/US-600

CPS SCA125KTL-DO/US-600

150kW

187.5kW

1500V 860-1450Vdc 900V / 250W

1 870-1300Vdc

220A

275A

16 inputs / per MPPT

20 inputs / per MPPT

Load rated DC switch

Type If MOV, Up=2.5kV, In=20kA(8/20us)

100kW

125kW

100kVA (111KVA @ PF>0.9)

125kVA (132KVA @ PF>0.95)

600Vac 528-660 Vac

3Φ / PE / (N optional) Wye or Delta

106.9A

127.2A

60Hz 57-63Hz

>0.99 (±0.8 adjustable)

>0.99 (±0.8 adjustable)

<3% Load rated AC switch

Type II MOV, Up=2.5kV, In=20kA(8/20us)

Transformedess 98.8% 98.5%

<2W

NEMA Type 4X

Variable speed cooling fans

-22°F to +140°F / -30°C to +60°C (derating from +113°F / +45°C)

-40°F to +158°F / -40°C to +70°C maximum4 0-95%, non-condensing 8202ft / 2500mm (no derating)

<65dBA@1m and 25°C

LED, WiFi + APP Modbus RS485, PLC Option CPS Flex Gateway (1 per 32 inverters)

> SunSpec/CPS Standard

45.28x24.25x9.84in (1150x616x250mm) with Standard Wire-box 39.37x24.25x9.84in (1000x616x250mm) with Centralized Wire-box

Inverter: 121lbs / 55kg; Wire-box: 55lbs / 25kg (standard); 33lbs / 15kg (centralized)

15 - 90 degrees from horizontal (vertical, angled)

M8 Stud Type Terminal Block (Wire range: #6 - 3/0AWG CU/AL⁵, Lugs not supplied) Screw Clamp Fuse Holder (Wire range: 14AWG - 10AWG CU) - Standard Wire-box Screw Clamp Fuse Holder (Wire range: 1AWG - 250kcmil CU/AL, Lugs not supplied) - Centralized Wire-box

15A fuses provided (Fuse values up to 30A acceptable)

UL1741SA-2016⁶, UL1699B, CSA-C22.2 NO.107.1-01, IEEE1547a-2014; FCC PART15

IEEE 1547a-2014, CA Rule 216

Voltage-RideThru, Frequency-RideThru, Soft-Start, Volt-Var, Frequency-Watt

10 years

15 and 20 years

1) "Max. AC Apparent Power" rating valid within MPPT voltage range and temperature range of -30°C to +40°C (-22°F to +104°F) for 100KW PF ≥0.9 and 123KW PF ≥0.95

2) The "Output Voltage Range" and "Output Frequency Range" may differ according to the specific grid standard.

3) Wye neutral-grounded, Delta may not be comer-grounded.

4) See user manual for further requirements regarding non-operating conditions.

5) AL requires bi-metallic compression lug or bi-metallic adapter. 6) Certifications Pending.

APPENDIX B

- PRELIMINARY ASSESSMENT OF EXISTING TREES TO BE REMOVED
 - TREE IDENTIFICATION INSPECTION LETTER, SITE INSPECTION LETTER, AND TREE INVENTORY PREPARED BY BARTLETT TREE EXPERTS AND DATED OCTOBER 14, 2012 AS PART OF THE HANOVER ESTATES PROPOSED SUBDIVISION APPLICATION PACKAGE
 - TREE IDENTIFICATION INSPECTION LETTER AND TREE INVENTORY PREPARED BY BARTLETT TREE EXPERTS AND DATED JULY 5, 2019



Copies Planning Board
..... Town Board
..... Zoning Board
..... Legal Dept.
..... DOTS Director
..... C.A.C.

Sent _////>

Tim Commy 1.E. Winner of

2240 SAW MILL RIVER ROAD ELMSFORD, NY 10523 (914) 592-4520 (914) 692-5068(FAX)

October 14th, 2012

Town of Cortlandt ATTN: Chris Kehoe 1 Heady Street Cortland NY 10567

Work Location: Hanover Estates Maple Avenue

Dear Mr. Kehoe

We inspected the approximately 2250 trees that were tagged throughout the site of the proposed development. The trees were all inspected to determine the species, size and overall conditions. The overall site was also assessed for groupings of trees that would be the best to protect during development, if possible. We based the findings on the drawings previously provided. The goal as we discussed would be the best potential for preserving the largest number of trees of the best quality. The inventory is included here with each specific tree listed and any pertinent observations. I am basing my points on the plan titled "Alternative 9" as this was the one that appeared to be the best from the standpoint of tree preservation and was the last one provided to me

- All the trees on the site of appropriate size were in fact tagged and there were no areas where any trees were skipped.
- There are large open areas with few trees and these are the main areas for proposed building lots. There are several small groups of trees within these areas and if possible could be protected and provide a few mature trees within the development site upon completion.
- The primary area for preserving the most trees would be the hillside directly abutting Croton Avenue. Approximately 1800 of the total 2250 trees on the site are found along this hillside and leaving this undisturbed would gain the best chance of preserving a large number of trees. Along the top side of the hill there may be some that need to be removed where they are within the building lots 8 through 14 but these tend to be smaller trees and many have already been overtaken by vines.
- The other area of a high tree population is in the North East corner which roughly includes Lots 1 through 7. It is comprised primarily of Tulip Poplars with other trees species in smaller quantities. There are roughly 300 trees in the area and although there are some decent Oaks, Maples and Ash included the majority of trees are Tulip Poplars which are less desirable than the Sugar Maple dominated west side of the site. There could possibly be individual groups of trees preserved within this area. In particular along the buffer, with the neighbors to the north, there are some nice trees. The removal of the trees in this area to preserve a larger number on the other side seems like a very logical compromise.

- The whole site has major problems with invasive vines choking out the crowns of the trees and any areas to be preserved should have a plan for controlling these by means of culting and or treatments. The vines do not need to be removed from the trees but at least cut near the base every year to help control the spread. When the site is opened up these vines will be the first to thrive on a disturbed site.
 - Trees to remain should have ample protection fencing which extends out the dripline and
 any grade changes within the root zone should be supervised and approved by a certified
 arborist to help prevent damage to the root systems. When possible fencing should be
 done around whole groups of trees as opposed to individual trees.

The overall plan shown in Alternative 9 seems like a very good plan from a tree preservation standpoint. There will be a large number of trees removed but the majority of trees on the site will be preserved. You can increase the number saved by selecting clusters in the open areas and along the borders of the property once the exact sites are laid out.

Thank You and please feel free to call with any questions.

Trevor Hall
Bartlett Tree Experts
ISA Certified Arborist PD 0269
Licensed Applicator C3809904



R TL R E E $\mathbf{E} \mathbf{X}$

DEPT. OF TECHNICAL SERVICES PLANNING DIVISION

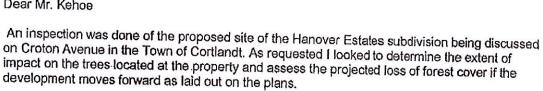
2240 SAW MILL RIVER ROAD, ELMSFORD, NY 10523-2501 • (914) 592-4520 • FAX (914) 592-5068

October 31, 2011

Town of Cortlandt Planning Board ATTN: Chris Kehoe 1 Heady Street Cortlandt NY 10567

Work Location: Hanover Estates Development Croton Avenue

Dear Mr. Kehoe



The plans given to me show 3 alternatives with anywhere from 25 to 10 building lots, new main road through the site, entrance from Apple Hill Road and a proposed conservation area. Each lot is not specifically marked in the field and so determining the exact impact of each building lot is not really feasible and so I have broken them into groups of lots based on similar tree groupings and existing conditions. Some of the things we look to determine are the species make up of the forest, size and condition of the trees and any significant groupings. Aside from trees, which would be removed because they are in the footprint of an individual site we also need to take into account the trees which would be damaged to an unacceptable level by root disturbance or other disturbances like erosion. There was a tree inventory completed but it does not include any trees less than 8" in diameter, which includes some significant trees such as Dogwoods, Ironwoods and Hickories. Some recommendations will be proposed, which may help reduce or minimize damage if the project moves forward. Each proposed area of the plan shown on the drawings will be addressed here.

SUBDIVISION ALTERNATIVES 1 AND 2 DRAWINGS

APPLE HILL DRIVE

There are two alternatives that appear to be only separated by the type of entrance used to gain access off of Apple Hill Drive. The option for a gravel road would generally cause the least impact for the trees in this area. The area is a swath between houses 16 and 18 Apple Hill Drive and is comprised primarily of Oaks and Maples and some smaller trees. It is a narrow area and in all likelihood any roadway put through here would require the removal of all or most of the trees. If a road is dug it would damage the roots of the adjacent trees and likely cause decline of those trees going forward. There are not a great number of trees in this area but they do provide a buffer between the two houses.

> THE F.A. BARTLETT TREE EXPERT COMPANY SCIENTIFIC TRBE CARE SINCE 1907



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Alternative 1 and 2 drawing cont:

CONSERVATION AREA

This area appears to roughly overlap what is the existing wetland. The trees in this area are of the typical type to wetland areas. There are not a large number of trees in this zone which is typical for some wetlands. There is an extensive problem with invasive vines affecting the trees in the zone as well. Some trees are in very poor condition due to the suffocating vines. If this remains the area to be preserved some work should be done to curb the invasive plants.

BUILDING LOTS 1 THRU 4

These lots run along the border of the property with the school from the rear of 18 Apple Hill. This area primarily consists of large Tulip trees and smaller Maple trees. The trees are large and would not be able to remain along with the home construction as too many roots would be damaged and they would likely decline in subsequent years. The trees are in good health and if possible this would be a group of trees worth trying to preserve.

BUILDING LOTS 5 THRU 7

There are very few trees in this area that are in good condition or are highly desirable. The area has a lot of meadow and the few trees that exist are in poor health or are covered in vines. There is a group of invasive Allanthus trees in the center of this area that would not be beneficial to the site. There are a few individual Oak and Tulip trees that could remain if provided good protection measures during construction leaving some mature trees that would benefit the site. There are really no significant tree related conflicts in these sites but they do appear to get close to the wetland at the one end.

BUILDING LOTS 8 THRU 9

These 2 lots are located directly adjacent the current entrance off Croton Ave. and are already developed with houses and drives. There are not a large number of trees that would be affected in development but there are some existing trees. There are several mature Maples and Spruces that are in good condition and should be preserved if possible in the development with proper tree protection zones. Depending on the size of houses this could be feasible for some of them to remain.

BUILDING LOTS 10 THRU 17

These lots currently consist of a young forest directly alongside Croton Avenue. This area was cleared at some point in the too distant past as almost all the trees are in the range of 6 to 14 inch in diameter. There are several places where larger individual trees exist and several very nice larger trees. The species makeup is primarily Sugar Maple which is a very desirable species and different from most locations where the invasive Norway Maple species takes over a cleared site. Other species include Sassafras, Hickory, White Oak and Black Locust. There are pockets where invasive Grape Vine is damaging trees but this can usually be controlled with some cutting. The area has a slope and if trees were removed it would likely increase runoff and erosion significantly. The top of the hill is where the quality of trees diminishes but there should be some buffer at the top to help prevent erosion. This is definitely the area most worth preserving of the whole site.

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BUILDING LOTS 18 THRU 25

This area extends from the rear of 16 Apple Hill Drive down through the existing egg farm. This area is mainly meadow and buildings occupied by the egg farm. There are very few trees in this area and of the entire site this is the best area for construction from a tree preservation standpoint. There are a few nice individual trees which could be protected with tree preservation zones but really no groups of specimen plants.

SUBDIVISION ALTERNATIVE 3 DRAWING

BUILDING LOTS 1 THRU 4

These lots run along the border of the property with the school from the rear of 18 Apple Hill. This area primarily consists of large Tulip trees and smaller Maple trees. The trees are large and would not be able to remain along with the home construction as too many roots would be damaged and they would likely decline in subsequent years. The trees are in good health and if possible this would be a group of trees worth trying to preserve.

BUILDING LOTS 5 THRU 10

This area extends from the rear of 16 Apple Hill Drive down through the existing egg farm. This area is mainly meadow and buildings occupied by the egg farm. There are very few trees in this area and of the entire site this is the best area for construction from a tree preservation standpoint. There are a few nice individual trees which could be protected with tree preservation zones but really no groups of specimen plants.

Conclusions

- 1. The portions of the site with existing forest are a healthy mix of hardwood trees consistent with this area including Black Birch, Oaks, Sugar Maples and Hickories. There is also a mix of invasive species, like Bittersweet, Norway Maple & Barberry which are common in this area and are often the first plants to thrive once the forest canopy is opened up. The deer have eaten most of the low growing foliage leaving no evergreens to speak of.
- 2. The bulk of the site is mostly already disturbed or currently in use. Trying to develop within these areas will always help minimize the impacts on the forest and existing trees. The development of plots listed as 1 thru 4 and 10 thru 17 are the ones that would result in the worst impact on the trees and likely cause erosion issues.

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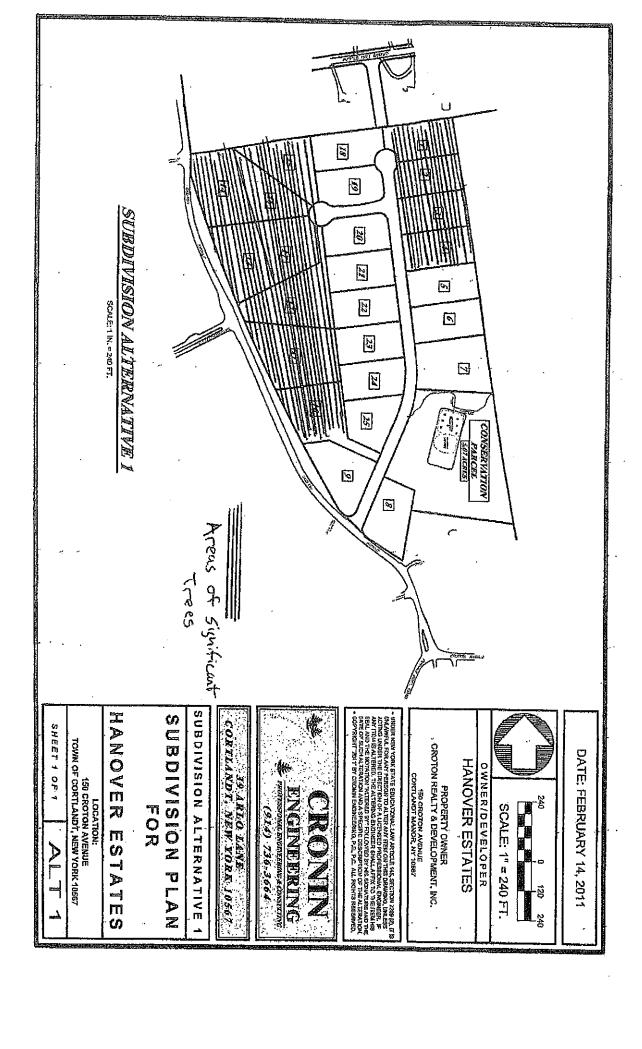
- 3. If construction moves forward there are individual tree's located within plots that will need protection of the root zones to prevent mechanical damage, soil compaction, root cutting and grade changes all of which will harm trees that are meant to remain. Most tree mortality will not be a result of clearing for the site but from tree decline due to stress caused from the construction. This can easily raise the loss of trees from 20 % to 40% within a few years of construction.
- 4. The better of the 2 plans from the tree loss point of view is the Alternative 3 drawing but it leaves out some areas where building could occur with little to no impact on the trees. I have marked up a drawing and attached it with the areas that I feel are most worthy of protection. In prioritizing the site I would say the area along Croton Ave. would be more important to preserve then the area at the rear of 18 Apple Hill Drive.

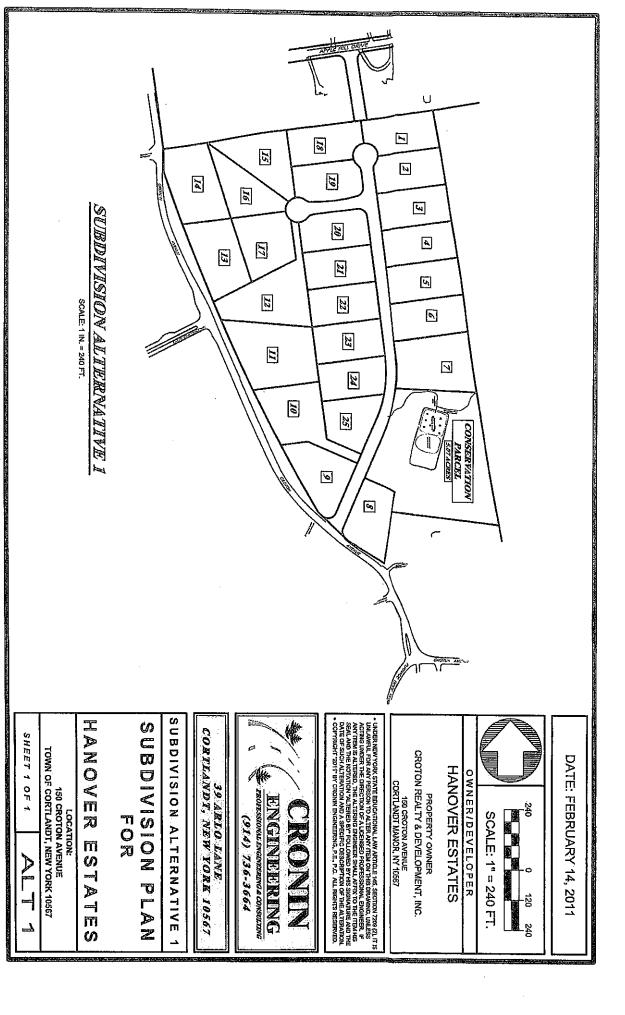
If you have any questions please feel free to give me a call.

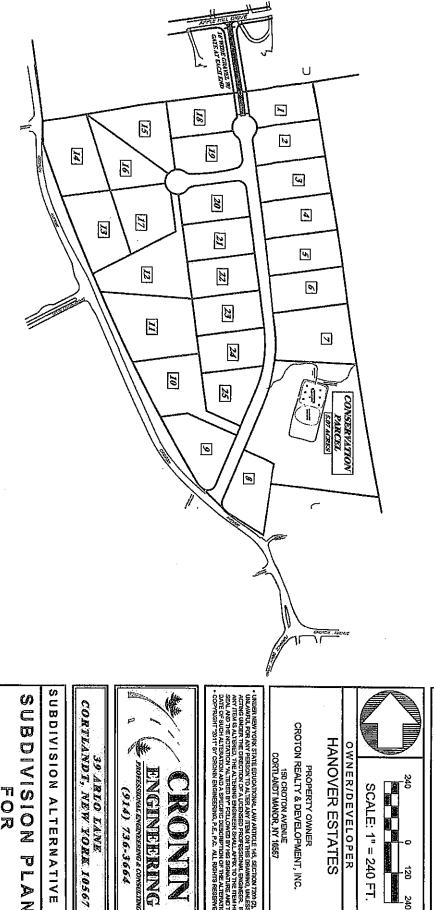
Sincerely

Trevor Hall Bartlett Tree Experts

ISA PD0269







DATE: FEBRUARY 14, 2011

SCALE: 1" = 240 FT.

PROFESSIONAL ENGINEERING & CONSULTING ENGENEERING

SUBDIVISION ALTERNATIVE 2

SUBDIVISION PLAN 71 () (7)

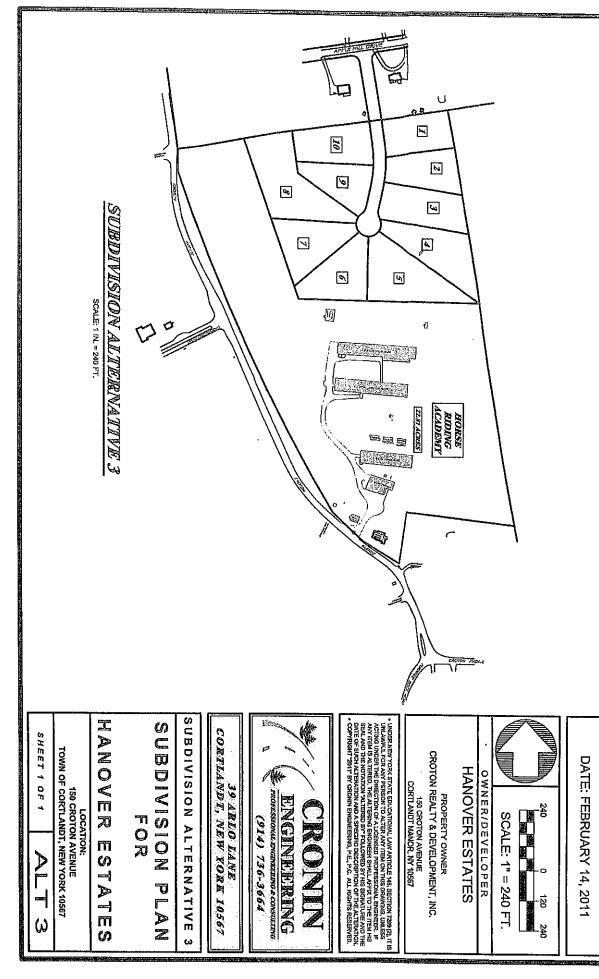
HAZOVER ESTATES

SUBDIVISION ALTERNATIVE 2

SCALE: 1 IN = 240 FT.

LOCATION:
150 CROTON AVENUE
TOWN OF CORTLANDT, NEW YORK 19567

SHEET 1 OF 1



HANOVER ESTATES 16 1-11

I KEE# SPI	SPECIES DBH	CONDITION 2012	COMMENTS
Sugar maple	18"	Good	
White ash	5.8"	Poor	Dead
Red oak	14"	Good	
Red oak	28,,	Good	
Red oak (twin)	(Good	
Red oak		Good	
Sugar maple	17"	Good	
Hickory		Poor	Severe decay/vine
Sugar maple	10,,	Good	
Tulip	17,	Good	
White ash	9	Poor	
Sugar maple	8	Good	
Cherry		Poor	Dead
Tulip	18,,	Poor	Vine/damaged
Hickory	8	Poor	Vines
Cherry	12"	Fair	
Tulip	19"	Good	
Red oak	13"	Good	
Red oak	13"	Good	
Red oak	123"	Poor	Damaged
Ash	9	Fair	0
Sugar maple	9	Good	
Hickory	18,,	Good	Border tree
Tulip	9	Fair	
Hickory	8	Fair	
Red oak	39"	Fair	Decline
Sugar maple	25"	Fair	Some decline
Sugar maple	8	Good	
Sugar maple	6	Good	
Sugar maple	9	Good	
Sugar maple		Fair	Vines
Norway maple		Fair	Corre .

COMMENTS	Out the second of the second o	Damage/vines			Vines		Vines	Dead & fallen	Dead vines	Dead vines	Vines	Vines	Vines	Storm Johnson	Vivia dallage	VILES VE	VIIICS						Vines		Vines	Damaoe	Vines	Dead	Vines	Vine	Vince 8. and 1.	Vines	TINGO
CONDITION 2012	Good	Fair	Poor	Good	Poor	Good	Poor	Poor	Poor	Poor	Good	Fair	Poor	Fair	Poor	Poor	Good	Poor	I COI	rair	Poor	Good	Fair	Good	Good	Poor	Poor	Poor	Good	Fair	Poor	Poor	Good
DBH	6	13"	722	7"	1132	7.,	10,,	833	6,,6	12"	9	28"	 	19"	733	7.,	6,,	7:	, 60	, [5"	6	7	7".	83,	6	9	14"	10,,	15"	10,,		6,,
SPECIES	Sugar maple	Norway maple	Ash	Sugar maple	Ash	Tulip	Ash	Ash	Ash	Ash	Sugar maple	Tulip	Ash	Red oak	Ash	Ash	Sugar maple	Ash	Ash	Charact	Cuerry	Sugar maple	Ash	Red maple	Sugar maple	Ash	Ash	Apple	Red maple	Ailanthus	Ailanthus	Ailanthus	Sugar maple
TREE#	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	64	40	55	26	57	58						42

COMMENTS			Vines					Vines		Damaoed/dead	Vines		Vines			Vines	Damaged & dead	Fallen		Damage	Agarm									Damaged/vines	Vines	Vines
CONDITION 2012	Fair	Fair		P	Good	Good	Good		p					Good		Fair						Good	Fair	Poor	Good	Good	Good	Good	Good		4.	Fair
DBH	6	13"	26"	72	10,,	*	6	16"	12"		9		12"		20,,		23"	93,	13"		13"		23,		21"				11"			10"
SPECIES	Ash	Ash	Tulip	Cherry	Ash	Sugar maple	Sugar maple	Ash	Norway maple	Sugar maple	Sugar maple	Ash	Ailanthus	Tulip	Tulip	Sugar maple	Tulip	Ash	Norway maple	Tulip	Tulip	Tulip	Sugar maple	Ash	Tulip	Tulip	Tulip	Sugar maple	Sugar maple	Tulip	Ailanthus	Ailanthus
「大ち氏井	65	99	29	89	69	70	71	72	73	74	75	26	77	78	79	08	81	82	83		85		87							94		

Ailanthus Tulip Tulip Sugar maple		4101 · () · () · () (
lip lip gar maple	8	Poor	Vines
lip gar maple	1133	Poor	Vines
gar maple	12"	Poor	Broken branches & vines
	5"	Fair	Vines
Sugar maple	1122	Good	
Sugar maple	8%	Good	
Tulip	14"	Fair	Crown
Ash	8	Poor	Vines
Sugar maple	9	Good	7000
Tulip	23"	Good	
Tulip	19"	Good	
Tulip	9	Good	
Tulip	19"	Good	
Sugar maple	8	Good	
Ash	15"	Good	
Tulip	20°	Good	
Tulip	25"	Poor	Decay of hear 8.1
Tulip	23"	Good	Docay at Dave & Targe Crack
Tulip	11"	Fair	Cm. 11 movern
Tulip	17"	Good	SMIAH CLOWII
Norway maple	113	Good	
Tulip	19"	Good	
dilı	20"	Poor	Broken ton & minor
Tulip	6	Fair	Poor grown
Tulip	6	Fair	1 COS CLOWII
Ash	833	Poor	Doodking
Tulip (3 stemmed)	14/10/7"	Poor	Willi stemmed Wines
Tulip	12"	Fair	Carify at book
Norway maple	723	Fair	Cavity at Dase
Tulip	14"	Good	
Tulip	18"	Good	
Tulip	12"	Good	

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COMMENTS							Large seam	5		Slight decay at base		Small crown	Broken/sprouts	Broken top	Vines	Broken branch/thin crown	44.1		Broken ton/dead	Thin crown	Vines		Vines		Slight decay at hase					Thin crown/broken branches		
CONDITION 2012	Good	Good	Good	Good	Good	Good	Fair	Good	Good	Fair	Fair	Fair	Poor	Fair	Fair	Fair	Good	Good	Poor	Fair	Poor	Fair	Fair	Good	Fair	Good	Good	Good	Good	Fair	Good	Good
DBH	19"	16"	14"	20"	18"	6.,	17"	16"	20"	17"/14"	11"	12"	9	7:2	20%	15"	24"	12"	5"	7"	8"	92,	17"	20"	16"	16"	14"	.9	16"	.,9	19"	23"
SPECIES	Tulip	Tulip	Tulip	Tulip	Tulip	Sugar maple	Tulip	136	Tulip	Tulip (multi stemmed)	Tulip	Tulip	Tulip	Tulip	Tulip	Tulip	Tulip	Tulip	Tulip	Tulip	Tulip	Ash	Tulip	Tulip	Tulip	Tulip	Tulip	Sugar maple	Tulip	Red oak	Tulip	Tulip
TREE#	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158		160

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COMMAND	CINDAMIN		Small crown	Vines	Broken ton	Fruiting bodies on upper branches	commo radán mo casa a						Broken branches	Vines	, takes				Profess business	DIORAL DIALICIES	Dving/snrouts/vines	COM Concrete Acres										
CONDITION 2012	Good	Good	Fair	Fair	Fair	Fair	Good	Good	Good	Good	Good	Good	Fair	Fair	Good	Good	Good	Fair	Fair	Good	Poor	Good	Good	Good	Good	Good	Good	Good	Good	Poor	fair	Good
DBH	24"	8,,	.9	17"	.6	15"	12"	20"	15,,	13"	17"	21"	20"	20,,	19"	5"	6,,	6,,	6,,	6	11,,		24"	.61		833				15"		
SPECIES	Tulip	Sugar maple	Sugar maple	Norway maple	Red maple	Tulip	American beech	Tulip	Tulip	Tulip	Tulip	Tulip	Tulip	Tlip	Tulip	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Ash	Ash	Tulip	Tulip	Tulip	Sugar maple	Tulip	Tulip	Tulip	Tulip	Tulip	Tulip
TREE#	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180					185						191	

Small crown Broken top Earge yellow jacket nest Cavity/vines Vines & form Vines & broken leader Vines & broken leader Standing dead Vines Standing dead Vines	rit ford od	DBH C 17" Fair 10" Fair 12" Good 11" Good 18" Poor 15" Good 14" Good 6" Good 11/8" Poor 16" Good 16" Good 17" Poor 11" Fair 12" Good 15" Poor 17" Poor 11/5" Poor 9" Poor 9" Poor 14" Poor 14" Poor
		Good Good Good
Vines & form		71.51.2
Standing dead Vines & form		
Vines		<u>.</u>
Form/vines		L
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Vines		
Standing dead		r
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Vines & broken leader		£.
Vines & form		Ħ
Vines		
Vines & form)Ţ
Cavity/vines		Ĭ,
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Large yellow jacket nest		ρģ
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Broken top/vines-large yellow jacket nest		λī
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Broken top		
COMMENTS	DITION 2012	NOO

SEVENDO	CIMPATA			Forked ton likely to break	The contract of the contract o		No crown/sparse branching	grinomore of the second of the	Small crown											Siliali Crown		Vinan Prace Com	Vines	COLUMN TO THE PROPERTY OF THE	Broken ton & correction	Proximity to large wines	Vines	Vines	Vince & wild Door	Prolem ton 6.	Vines	V.M.C.S
CONDITION 2012	Good	Good	Good	Fair	Good	Good	Poor	Good	Fair	Good	Good	Good	Good	Good	Good	Good	Good	Good	Fair	Good	Good	Poor	Poor	Fair	Poor	Fair	Poor	Poor	Poor	Poor	Poor	Fair
DBH	13"	13"	14"	13"	17"	10"	7"	16"	13"	% %	15"	19"	8,,	20"	27"	6,,	24"	15"	12"	18,,	14"	15/12"	12"	11"	8,,	13"	11"	63,	16"			11"
SPECIES	Tulip	Tulip	Tulip	Tulip	Tulip	Tulip	Ash	Tulip	Tulip	Norway maple	Tulip	Tulip	Tulip	Tulip	Tulip	Sugar maple	Tulip	Tulip	Tulip	Tulip	Tulip	Ailanthus (multi stemmed)	Ailanthus	Ailanthus	Ailanthus	Ailanthus	Ailanthus	Ailanthus	Ailanthus	Ailanthus	Ailanthus	Ailanthus
TREE#	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256

TREE#	SPECIES	DBH	CONDITION 2012	COMMENTS
257	Ailanthus	6,,	Fair	
258	Ailanthus		Fair	
259	Ailanthus	16"	Poor	Vines
260	Ailanthus	733	Poor	Vines
261	Ailanthus	15"	fair	Proximity to vines
262	Ailanthus	8,,	Poor	Standing dead & vines
263	Ailanthus	7"	Poor	Vines & small crown
264	Ailanthus	8,,	Poor	Vines
265	Ailanthus	8,,	Fair	Vines at base
266	Ailanthus	4"	Poor	Vines
267	Ailanthus	12"	Poor	Vines
268	Ailanthus	10,,	Poor	Vines
269	Ailanthus (multi stemmed)	9/14"	poor	Vines
270	Ailanthus	14"	Poor	Vines
271	Ailanthus	13"	Poor	Vines
272	Ailanthus	15,,	Poor	Vines
273	Ailanthus	8.,	Poor	Vines
274	Ailanthus	11"	Poor	Vines
275	Ailanthus	10"	Fair	Proximity to vines & noor form
276	Ailanthus	11"	Poor	Vines
277	Ailanthus	11"	Poor	Vines
278	Ailanthus	10,,	Poor	Poor farm & small vines
279	Tulip (multi stemmed)	8/1/6/5	Fair	Each tree appears healthy
280	Tulip (multi stemmed)	9/10/13"	Poor	Decay at base/vines/broken ton
281	Tulip (multi stemmed)	8/12"	Fair	Small decaying branch stub near base
282	Tulip (multi stemmed)	18/18/10/7"	Poor	Only one 18" tree is healthy rest have vines
283	Sugar maple (multi stemmed)	6/4"	Good	100m
284		12"	Good	
285		9	Good	
286		6,,	Good	
287	Sugar maple	11"	Good	
288	Sugar maple	8,,	Good	

TREE#	SPECIES	DBH	CONDITION 2012	COMMENTS
	Sugar maple	8,,	Good	
	Sugar maple	7"	Good	
	Sugar maple	10,,	Good	
ļ	Hickory	16"	Good	
	Sugar maple	10"	Good	
ı	Hickory	113	Good	
	Hickory	11,,	Good	
	Sugar maple	6	Good	
	Tulip	20"	Poor	Cavity at hase/vines
	Tulip (multi stemmed)	15/16"	Poor	Split at base/one stem onen owith.
	Tulip	11"	Good	Free at case one steam open cavily
	Tulip (multi stemmed)	18/9"	Fair	Slight decay at here/onen good
Ī	Tulip	15"	Good	dient don't dascropen scann
	Sugar maple	7"	Good	
	Tulip	21"	Good	
	Tulip	17"	Fair	Vines
	Tulip (multi stemmed)	15/5"	Poor	Vines
	Elm	1133	Poor	Standing dead frames
	Black cherry	6.,	Poor	Vines
_	Tulip (multi stemmed)	18/22"	Poor	Vines
	Tulip	1133	Poor	Vines
	Black cherry	11,,	Poor	Vines
	Sugar maple	12"	Fair	Some vines in crown
	Ash	8,,	Poor	Vines/enicompic encoute
	Sugar maple	10"	Poor	Vines
1	Tulip	176"	Poor	Broken ton/wines/consists of Long
	Tulip	18"	Poor	Vines
1	Ash	8,,	Poor	Vines
_†	Ash	9"	Poor	Vines
+	Tulip		Poor	Vines
-	Tulip	-	Poor	Standing dead James, at Land
7	Tulip		Poor	Vines
				, mes

1天内内部	SPECIES	DBH	CONDITION 2012	COMMENTS
321	Tulip (multi stemmed)	13/11"	Fair	
322	Tulip	10,,	Good	
323	Tulip	6	Poor	Vines
324	Tulip	8	Fair	Small crown
325	Tulip	15"	Good	
326	Tulip	13"	Poor	Vines
327	Black cherry	7"	Poor	Vines/small crown
328	Tulip	15"	Poor	Vines
329	Tulip	20"	Good	
330	Tulip	17"	Good	
331	Black birch	7"	Poor	Vines/canker
332	Ash	10"	Poor	Vines
333	Ash	6,,	Poor	Vines
334	Tulip	17"	Good	
335	Hickory	.9	Good	
336	Tulip (multi stemmed)	9/13"	Poor	Vines/broken ton
337	Tulip (multi stemmed)	13/6"	Poor	Decay at base/small vines
338	Hickory	12"	Poor	Vines
339	Tulip	13"	Poor	Vines
340	Elm	6	Poor	Standing dead/vines
341	Tulip (multi stemmed)	21/15"	Poor	Vines
342	Hickory	6,,	Poor	Vines
343	Tulip (multi stemmed)	11/10"	Poor	Vines
344	Tulip	14"	Poor	Vines
345	Tulip	33"	Good	
346	Tulip	11"	Poor	Forked ton/vines
347	Elm	9	Fair	Some vines
348	Hickory	21"	Good	O STATE OF THE STA
349	Hickory	11"	Good	
350	Black cherry	10,,	Poor	Broken branches/cavitv
351	Elm	23"	Fair	Broken ton/leaning tree
152	Tulip	21"	Good	On Swarms of

385		-	0011011011010	STATE OF STA
286	Hickory	11"	Poor	Vines
3	Hickory	18"	Fair	Proximity to vines
387	Ailanthus	21"	Poor	Hollow base/vines/noor form
388	Mulberry	6	Good	
389	Apple (multi stemmed)	6/6/6/8/10/12	Poor	Decay at base/hollow
390	Ailanthus	723	Poor	Broken in half/vines
391	Ailanthus (multi stemmed)	.9/6.	Poor	vines
392	Ash	26"	Poor	Cavity at base/insects/vines
393	Hickory	10"	Poor	Vines/decay
394	Ash	15"	Poor	Vines – likely standing dead
395	Apple	63.	Poor	Vines
396	Ash	9"	Poor	Vines
397	Ailanthus	10"	Poor	Vines
398	Apple (multi stemmed)	8/L	Poor	Vines/noor form/cavity
399	Red oak	44"	Good	לוניים הנינים בסיק יים
400	Sugar maple (multi stemmed)	15/11"	Good	
401	Black gum	6,,	Fair	Proximity to vines
402	Black gum	25"	Poor	Vines/hroken ton
403	Black gum	6,,	Poor	Vines
404	Mulberry	17"	Poor	Decay at base/vines/handen
405	Ailanthus	16"	Poor	Vines
406	Ailanthus	16"	Good	
407	Ailanthus	15"	Air	Large broken branch at base
408	Hickory (multi stemmed)	12/11"	Poor	Vines
409	Mulberry (multi stemmed)	17/13/8/6"	Poor	Vines
410	Black cherry	8,,	Poor	Vines/decay finans/hroken hrongton
411	Ash	12"	Poor	Standing dead/vines
412	Black locust (multi stemmed)	10/10"	Good	COULT /DECD STEEDING
413	Ailanthus (multi stemmed)	9/13"	Poor	Decay of hose/rings
414	Ailanthus	8,,	Poor	Broken ton/vines
415	Ailanthus (multi stemmed)	11/10/13/6"	poor	Decay at hase/vines
416	Hickory	21"	Fair	Vines

COMMENTS	Vines	Insects/vines/decay				Decay/cavity at base		Decay fungus/crown dieback	Open crown/cavity at base	Crown dieback/vines	COTTY									Poor form	Vines			Standing dead	TROP STITUTE	Cut un fall down	out up – ten nown	Vines	Poor croum/crossiss	Excessive vines on belo	Excessive vines on bole	COLOR LALL COLLEGE COLOR
CONDITION 2012	Fair	Poor	Good	Good	Good	Poor	Good	Poor	Fair	Poor	Good	Good	Good	Good	Good	Good	Good	Good	Good	Fair	Fair	Good	Good	Poor				Poor	Poor	Fair	Fair	
DBH	26"	22/20/9"	17"	22"	18"	18"	10/2/10/6"	18"	12/7"	33"	10"	19"	27"	27"	6.,	17"	19/24/15"	7.,	26"	8,,	13"		30,,					20/10/9				
SPECIES	Red oak	Sugar maple (multi stemmed)	Black locust	Black locust	Black locust	Crabapple	Crabapple (multi stemmed)	Crabapple	Dogwood (multi stemmed)	Sugar maple	Norway maple	Douglas fir	Douglas fir	Norway maple	Ash	Black walnut	Norway maple (multi stemmed)		ece		Black locust			aple		Black locust	missing	Black locust (multi stemmed)				
TREE#	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	

	SPECIES	DBH	CONDITION 2012	COMMENTS
	Black locust	13"	Good	
	Black locust	14"	Good	
	Black locust	16"	Good	
	Black locust	14"	Good	
	Norway spruce	13"	Good	
	Dogwood (multi stemmed)		Good	
	Douglas fir	9"	Poor	Vines
	Ash	10,,	Poor	Vines/disease/insect
	Hickory	14"	Fair	Vines
	Ash	10,,	Poor	Snao
	Ash	12"	Poor	Vines/noor oroum
	Ash	83,	Poor	Space Stown
	Ash	6,,	Poor	Space
	Ash	9"	Poor	Vines/noor oroun/incent
	Sugar maple	11"	Good	CONTRACTOR OF TOOL OF THE POOR
	Ash	12"	Fair	Poor crown/disease
-	Sugar maple	25	Good	TOT COMIL TOCASO
	Black locust	21"	Fair	Excessive vines on hole
-	Black locust	10,,	Fair	Excessive vines on hole
	Black locust	17"	Poor	0
-	Black locust	13"	Good	CACCOSTAC VILLES III DOJE & CTOWN
-	Black locust	9,,	Poor	Excessive vines in hole & manuar
	Sugar maple	11"	Good	A COLOR III OOLO & CLOWII
-	Black locust	11"	Good	
-	Sugar maple (multi stemmed)		Good	
	Sugar maple	10,,	Good	
-	Black locust	12"	Good	
-	Black locust	6,,	Fair	
_	Sugar maple	9,,	Fair	Fused to #476
	Black locust (multi stemmed)	11/11"	Good	
		14"	Good	
	Sugar maple	5"	Good	

COMMENTS	CHAMPINES																								3 8	, e 4,	Cultos	LOUILI	ches	1	ugar mapie	
		Vines								Vines	, with	Vines	Vines	Broken tong/www	vines	VIIICS	v IIICS		X7:	v mes		Vines	Vines	Vines/dead branches	Vines/dead branches	Vines/hroken branches	Small crown/noor form	Vines/broken bush	v mest of one of all ches	Fired with other	r assa with other Sugar maple	
CONDITION 2012	Fair	Poor	Good	Good	Good	Good	Good	Good	Good	Fair	Good	Poor	Poor	Poor	Poor	Poor	Good	Good	Poor	Good	Good	Poor	Poor	Poor	Poor	Fair	Fair	Fair	Good	Fair	Good	Good
DBH	53	15"	6.,	15"	7.,	5"	10"	6,,	5/2/2"	11/13"	6.,6	15"	11"	 	14"	12"	7:1	77.	93	12"	*	15/12"	20"	8,,	├-	10/10/7"	.9	20/22"	22"		r	
SPECIES	Black locust	Black locust	Sugar maple	Black locust	Black locust	Sugar maple	Red maple	Black locust	Sugar maple (multi stemmed)	Black locust (multi stemmed)	Black locust	Black locust	Black locust	Sugar maple	Black locust			(multi stemmed)				nulti stemmed)		temmed)				Sugar maple				
TREE#	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501				505	506	507	508	509	510	511	512

TREE#	SPECIES	DBH	CONDITION 2012	COMMENTS
513	Black locust	9	Good	
514	Black locust	7"	Fair	Old stump sprout
515	Sugar maple	8.,	Good	
516	Tulip	25"	Good	
517	Sugar maple	15"	Good	
518	Sugar maple	11"	Poor	Snag
519	Sugar maple	11"	Poor	Snag
520	Sugar maple	7	Good	
521	Sugar maple	8,,	Poor	Snag
522	Sugar maple	10"	Fair	Vines/broken branches
523	Sugar maple	12"	Good	
524	Sugar maple	16"	Good	
525	Sugar maple	7"	Good	2 tags on 1 tree #525 537
526	Sugar maple	733	Good	
527	Norway maple	7"	Good	
528	Norway maple	16"	Good	
529	Sugar maple	6,,	Good	
530	Sugar maple	15"	Good	
531	Sugar maple	6,,	Good	
532	Sugar maple	. L.	Fair	Poor form
533	Hickory	31"	Good	TYY () - 100 c
534	Sugar maple	.79	Good	
535	Sugar maple	10"	Good	
536	Sugar maple	6,,	Good	
537	Sugar maple	7.,	Good	2 tags on 1 tree #525 537
538	Sugar maple	11,5	Good	9,000
539	Sugar maple	8"	Good	
540	Ash	15"	Poor	Dead leader/small crown
541	Sugar maple	28"	Good	77.00
542	Hickory	21"	Good	
543	Sugar maple	93,	Good	
544	Black locust	15"	Poor	Vines

COMMENSE	COMIMENTS	Vines	Vines	Fell over/cut/on ground	Vines	Vines	Vines	Vines	Vines	Vinec	COYY	Vines	//	Vinac/incort extit	VIIICS/IIISCCL activity		Vines		Vines	Vines	Vines VZ-22	Vines	VILLES	Jamorand June 201	Conte	COMES						
CONDITION 2012	Good	Poor	Poor	Poor	Poor	Poor	Poor	Poor			Good				Good												Good	Good	Good	Good	Good	Good
DBH	10"	16"	12"	13"	12"	12"	12"	11"	14"	11"	11,,	6	12"	21"	14"						63,	 				 		12"			}	13" (
SPECIES	Hickory	Black locust	Black locust	Black locust	Black locust	Black locust	Black locust	Black locust	Black locust	Black locust	Black locust	Black locust	Black locust	Black locust	Black locust	Black locust	Black locust	Black locust	Black locust	Black locust	Black locust	Black locust	Black walnut	Sugar maple	Black locust	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple
TREE#	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	260	561	562	563	564										1	+	576

-	DBH	CONDITION 2012	COMMENTS
le	7.,	Good	
Sugar maple	6,2	Good	
Sugar maple	16"	Good	
Sugar maple	7"	Good	
Black maple	23"	Good	
Sugar maple	7"	Good	
Sugar maple	10"	Good	
Sugar maple	9	Good	
Sugar maple	5,,	Good	
Sugar maple	533	Good	
Sugar maple	.10,,	Good	
Sugar maple	12"	Good	
Sugar maple (multi stemmed)	6/5"	Good	
Sugar maple	10,,	Good	
Sugar maple	10,,	Fair	Decay at base
Sugar maple	7	Fair	Decay at base
Sugar maple	10,,	Good	
Sugar maple	8	Good	
Sugar maple	13	Good	
Sugar maple	5"	Good	
Sugar maple	16"	Good	
Sugar maple	6,,	Good	
Sugar maple	17"	Good	
Sugar maple	<i>L.</i>	Good	
Sugar maple	11"	Fair	Cavity at base
Sugar maple	10"	Good	
	14"	Good	
	11,,	Good	
	9.,	Good	
	75	Good	
Sugar maple	12"	Good	
Sugar maple	16"	Good	

COMMENTS	Cavity at base					Large open seam		Some vines	Cavity at base	Vines	Vines	Vines	Vines/broken ton				Vines							Broken top/Jaroe decay column	minos (pos services		Poor form/hroken branch					Vines
CONDITION 2012	Good	Good	Good	Good	Good	Poor	Good	Fair	Fair	Poor	Fair	Poor	Poor	Good	Good	Good	Poor	Good	Good	Good	Good	Good	Good	Poor	Good	Good	Fair	Good	Good	Good	Good	Fair
DBH	26"	11"	15"	.,,6	12"	20"	5,,	12"	73	5.,	10"	18"	18"	7	6,,	11"	14"	9		29"	14"		6,,	25"	10,,	15"	4,,	12"	7"	6		6
SPECIES	Sugar maple	Sugar maple	Hickory	Sugar maple	Sugar maple	Black locust	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Black locust	Ash	Sugar maple	Black locus	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Black birch					
TREE#	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640

SPECIES ple
14,
63
183
13"
13"
10"
29"
5"
28,
6"
5"
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6,,
23"
13"
11"
14"
17"
83,
10"
23,
163
11,,
6,
5"
2,,
7"
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6,,
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7.

3 Sugar maple (multi stemmed) 5/3" Good 4 Sugar maple 6" Good 5 Sugar maple 23" Good 8 Sugar maple (multi stemmed) 7/8" Good 9 Sugar maple (multi stemmed) 7/8" Good 10 Sugar maple (multi stemmed) 12/6" Good 2 Sugar maple (multi stemmed) 12/6" Good 3 Sugar maple (multi stemmed) 12/6" Good 4 Sugar maple (multi stemmed) 12/6" Good 5 Sugar maple (multi stemmed) 4" Good 6 Sugar maple (multi stemmed) 34" Good 8 Sugar maple (multi stemmed) 8" Good 9 Sugar maple (multi stemmed) 8" Good 10 Sugar maple (multi stemmed) 8" Good 2 Sugar maple (multi stemmed) 8" Good 3 Sugar maple (multi stemmed) 8" Good 4 Sugar maple (m	TREE#	SPECIES	DBH	CONDITION 2012	COMMENTS
4 Sugar maple 24" 5 Sugar maple 6" 7 Sugar maple 11" 8 Sugar maple 4" 9 Sugar maple 4" 10 Sugar maple 25" 11 Sugar maple 25" 12 Sugar maple 4" 2 Sugar maple 4" 3 Sugar maple 4" 4 Sugar maple 4" 5 Sugar maple 4" 6 Sugar maple 4" 7 Sugar maple 5" 8 Sugar maple 8" 9 Sugar maple 6" 10 Sugar maple 5" 10 Sugar maple 5" 11 Sugar maple 5" 12 Sugar maple 5" 13 Sugar maple 5" 13 Sugar maple 5" 10 Sugar maple 5" 20	673	Sugar maple (multi stemmed)	5/3"	Good	CINTERIO
Sugar maple 6" Sugar maple 23" Sugar maple 11" Sugar maple 4" Sugar maple 4" Sugar maple 25" Sugar maple 25" Sugar maple 4" Sugar maple 4" Sugar maple 4" Sugar maple 41" Sugar maple 5" Sugar maple 8" Sugar maple 5" Sugar maple 8" Sugar maple 6" Sugar maple 5" Sugar maple 25" Sugar maple 25" Sugar maple 25" Sugar maple 29" Sugar maple 29" Sugar maple 29" Sugar maple 29"	674	Sugar maple	24"	Good	
Sugar maple 11" 11	675	Sugar maple	9	Good	
Sugar maple (multi stemmed) 7/8"	9/9	Sugar maple	23"	Good	Few vines
Sugar maple (multi stemmed) 7/8" Sugar maple 8" Sugar maple 25" Sugar maple (multi stemmed) 12/6" Sugar maple (multi stemmed) 12/6" Sugar maple 17" Sugar maple 5" Sugar maple 6" Sugar maple 5" Suga	212	Sugar maple	11,,	Pood	
Sugar maple 4" Sugar maple 8" Sugar maple 25" Sugar maple 25" Sugar maple 25" Sugar maple 4" Sugar maple 7" Sugar maple 41" Sugar maple 5" Sugar maple 5" Sugar maple 5" Sugar maple 5" Sugar maple 6" Sugar maple 5" Sugar maple 6" Sugar maple 5" Sugar maple 25"	829	Sugar maple (multi stemmed)	7/8"	Good	
Sugar maple 8" Sugar maple 4" Sugar maple 29" Sugar maple 4" Sugar maple 4" Sugar maple 7" Sugar maple 7" Sugar maple 41" Sugar maple 5" Sugar maple 8" Sugar maple 5" Sugar maple 6" Sugar maple 8" Sugar maple 5" Sugar maple 6" Sugar maple 5" Sugar maple 5" Sugar maple 5" Sugar maple 5" Sugar maple 25" Sugar maple 25" Sugar maple 25" Sugar maple 20"	679	Sugar maple	4"	Fair	Small crown
Sugar maple 25" Sugar maple (multi stemmed) 12/6" Sugar maple (multi stemmed) 12/6" Sugar maple (multi stemmed) 17" Sugar maple (multi stemmed) 8/6" Sugar maple (multi stemmed) 8/6" Sugar maple (multi stemmed) 8/6" Sugar maple (sugar maple 6" Sugar maple (sugar maple 6" Sugar maple 7" Sugar maple 6" Sugar maple 7" Sugar maple 7" Sugar maple 7" Sugar maple 5" Sugar maple 25" Sugar maple 25" Sugar maple 13" Sugar maple 25" Sugar maple 25" Sugar maple 13" Sugar maple 13"	089	Sugar maple	8,,	Good	77.07
Sugar maple 25" Sugar maple (multi stemmed) 12/6" Sugar maple 47" Sugar maple 17" Sugar maple 77" Sugar maple 87" Sugar maple 67" Sugar maple 77" Sugar maple 77" Sugar maple 67" Sugar maple 67" Sugar maple 77"	681	Sugar maple	4,,	Fair	Poor form
Sugar maple (multi stemmed) 12/6" Sugar maple (multi stemmed) 12/6" Sugar maple (multi stemmed) 34" Sugar maple (multi stemmed) 8/6" Norway maple (sugar maple (sugar maple 6") 8") Sugar maple 6" Sugar maple 7" Sugar maple 6" Sugar maple 7" Sugar maple 6" Sugar maple 5" Sugar maple 7" Sugar maple 5" Sugar maple 7"	682	Sugar maple	25"	Good	1001
Sugar maple (multi stemmed) 12/6" Sugar maple 4" Sugar maple 17" Sugar maple 7" Sugar maple 41" Sugar maple 5" Sugar maple 8" Sugar maple 6" Sugar maple 8" Sugar maple 5" Sugar maple 5" Sugar maple 5" Sugar maple 5" Sugar maple 25" Sugar maple 29" Sugar maple 29" Sugar maple 29" Sugar maple 29"	683	Sugar maple	29"	Good	
Sugar maple 4" Sugar maple 17" Sugar maple 7" Sugar maple 41" Sugar maple 7" Sugar maple 6" Norway maple 6" Sugar maple 6" Sugar maple 6" Sugar maple 6" Sugar maple 7" Sugar maple 6" Sugar maple 6" Sugar maple 7" Sugar maple 6" Sugar maple 5" Sugar maple 7" Sugar maple 6" Sugar maple 7"	684	_	12/6"	Good	
Sugar maple 30" Sugar maple 7" Sugar maple 41" Sugar maple 5" Sugar maple (multi stemmed) 8/6" Norway maple 6" Sugar maple 7" Sugar maple 6" Sugar maple 7" Sugar maple 6" Sugar maple 7" Sugar maple 7" Sugar maple 7" Sugar maple 5" Sugar maple 25" Sugar maple 25" Sugar maple 25" Sugar maple 13" Sugar maple 25"	685		4"	Good	
Sugar maple 17" Sugar maple 7" Sugar maple 41" Sugar maple 5" Sugar maple 8" Sugar maple 9" Sugar maple 6" Sugar maple 5" Sugar maple 5" Sugar maple 5" Sugar maple 25" Sugar maple 29"	989		30"	Good	
Sugar maple 7" Sugar maple 41" Sugar maple 5" Sugar maple 8" Sugar maple 9" Sugar maple 8" Sugar maple 6" Sugar maple 8" Sugar maple 5" Sugar maple 5" Sugar maple 25" Sugar maple 25" Sugar maple 22" Sugar maple 29"	687	Sugar maple	17"	Good	
Sugar maple	889	Sugar maple	7"	Good	
Sugar maple 34" Sugar maple 5" Sugar maple 8" Sugar maple 9" Sugar maple 6" Sugar maple 8" Sugar maple 5" Sugar maple 9" Sugar maple 25" Sugar maple 25" Sugar maple 21" Sugar maple 29"	689	Sugar maple	41,,	Good	
Sugar maple 5" Sugar maple 8" Sugar maple 9" Sugar maple 6" Sugar maple 5" Sugar maple 5" Sugar maple 9" Sugar maple 25" Sugar maple 25" Sugar maple 21" Sugar maple 21" Sugar maple 29" Sugar maple 29" Sugar maple 29" Sugar maple 29" Sugar maple 13"	069		34"	Good	
Sugar maple (multi stemmed) 8/6" Norway maple (multi stemmed) 8/6" Sugar maple 6" Sugar maple 8" Sugar maple 5" Sugar maple 9" Sugar maple 5" Sugar maple 25" Sugar maple 25" Sugar maple 25" Sugar maple 25"	691		5"	Good	
Sugar maple (multi stemmed) 8/6" Norway maple 9" Sugar maple 6" Sugar maple 5" Sugar maple 30" Sugar maple 25" Sugar maple 25" Sugar maple 25" Sugar maple 25"	692		8,,	Good	
Norway maple 9" Sugar maple 6" Sugar maple 8" Sugar maple 5" Sugar maple 9" Sugar maple 25" Sugar maple 21" Sugar maple 21" Sugar maple 29" Sugar maple 13" Sugar maple 29" Sugar maple 13"	693	nulti stemmed)	.9/8	Poor	Broken tons/non form
Sugar maple	694	le	9"	Good	יייייייייייייייייייייייייייייייייייייי
Sugar maple	695		6,,	Good	
Sugar maple 5" Sugar maple 30" Sugar maple 9" Sugar maple 25" Sugar maple 21" Sugar maple 29" Sugar maple 13"	969		8,,	Fair	In folding cosm of boos
Sugar maple 30" Sugar maple 9" Sugar maple 25" Sugar maple 29" Sugar maple 29" Sugar maple 13"	597		5"	Good	at Oase
Sugar maple 9" Sugar maple 25" Sugar maple 21" Sugar maple 29" Sugar maple 13"	868		30,,	Good	
Sugar maple 25" Sugar maple 21" Sugar maple 29" Sugar maple 13"			9"	Good	
Sugar maple 21" Sugar maple 29" Sugar maple 13"			25"	Good	
Sugar maple 29" Sugar maple 13"			21"	Good	
Sugar maple 13"	+		29"	Good	
C10001 TE 001	+		13"	Good	Small cavity at hase
ougai maple		Sugar maple	22"	Good	

COMMENTS									ut base				Poor form/vines in crown	11 A CT CALL		GO.	A	uo.	Broken limbs/some vines	Broken ton/hollow center	Common Course	Large wound/insect activity	Carro Archavily	Poor form/vines in crown	77.00.00			Poor form/cavity at base	مريدة مريدة		Large cavity/noor grown linearts	STOCK OF WILLIAMS
									Cavity at base				Poor for			Broken ton		Broken ton	Broken 1	Broken 1		Large w	0	Poor for				Poor for			Large ca	
CONDITION 2012	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Poor	Good	Good	Poor	Good	Poor	Fair	Fair	Good	Poor	Good	Fair	Good	Good	Good			Good		Good
DBH	5"	5"	8	8,,	15"	93,	.,6	19"	24"	933	29"	7),	8,,	9.,	18"	733	13"	5,,	11/6"	30"	8,,	19"	21"	7.,	13"	9"	17"	8,,	6	13"	15"	6,,
SPECIES	Sugar maple		Sugar maple		Sugar maple	Sugar maple	Sugar maple	Sugar maple		Sugar maple		Sugar maple			Sugar maple	Sugar maple			(multi stemmed)	\vdash		Sugar maple						ech	Sugar maple			Sugar maple
TREE#	705	902	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724			_								735	7

SENSMOS	CONTAINED		Excessive vines in crown	THE CLOWIT		Canker/insect activity	aranchae(nority of Lea-	our chance cavity at base		contemporary decen	raige canaci/solue decay						John St.	range accay commun				Broken ton wings	In folding coom	ng scam					44			
CONDITION 2012	Good	Good		d.	Good				Good		יסי	Good	Good	Good	Good	Good			Good	Good	Good			ס	Good	Good	Good	Good	Fair Poor form	70	Good	
DBH	5,,		8,,		17"			11,,	-	7"	21"	<u> </u>	5"				18" P		11"	 -		12" F									6,,	
SPECIES	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Black locust	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Black locust	Sugar maple	Black cherry	Sugar maple	Sugar maple	Sugar manle				
TREE#	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753					_			1	-						768

COMMENTS	COMMENTS	Seam/insect activity	Correspond	Small crown/dead limbs/cavity at base	and the same of th				Poor form						Seam/decay column	Door form	I OOL LOLLII				Broken tree	r con lotth							On broken by experience discipled	er creation of cavator urguing test hole	Decay at base/conks on man hale	מוסם והחלום אוס כשיינים כחים יה להם
CONDITION 2012	Good	Fair	Good	Poor	Good	Good	Good	Good	Fair	Good	Good	Good	Good	Good	Fair		70	Good	2000				Good	Good	Good	Good	Good	Good		Good		
DBH	14	20	23	16	13	24	14	28	9	10	11	6	12	8	19	9	8	17	15	9	7					12				25/6		
SPECIES	Hickory	Black locust	Black cherry	Sugar maple	Sugar maple	Black locust	Sugar maple	Black locust	Sugar maple	Black locust	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Ailanthus	Ailanthus	Sugar maple	Sugar maple	Black cherry	Black cherry	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple (multi stemmed)	Black locust	Hickory					
TREE#	692	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795					800

												4807	2001			x vines	-															
COMMENTS		Large open seam	Onfolding seam	Canker/thin crown					Vines in crown			Root hall milled un/leaning on #807	Bent over by #819/large can ber	Broken ton/noor crouve	in 10° enga/true neer	ou 10 sing/two poor crowins & vines	Taoved thing as #817 and #840	בפספת בנונים מס שפורו שפורו אפרלה	Snag broke fell on #012	THE CLOSE TOUR HOLD			Distinct bark nattern	The state of the s					W		Broken ton	40.
CONDITION 2012	Good	Fair	Fair	Poor		Good	Fair	Good			Good	Poor									Fair	Good			Good	Good	Good	Good	Good	Good		q
DBH	11"	17"	93,	11,,	11,,	6,,	18"	5"	21"	17/6"	5",	16"	6,	12"	10/10/6"		16"	9"	833	"		20"		13"		11,,				-		23"
SPECIES	Sugar maple		Sugar maple	Sugar maple	Ailanthus	Sugar maple	Black locust		Sugar maple	(multi stemmed)			Sugar maple	Hickory	Sugar maple (multi stemmed)	1		aple		aple (multi stemmed)	-											Black walnut
TREE#	801	802	803	804	805	806	807	808	608	810	811	812	813	814	815	816	817				821	822	823	824	825						+	832

COMMENTS									oor form	OCT TOTAL			Oor form				#817	1011											- ny (5)			
		Open seam				-			Open seam/bent/noor form	d 3123 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			Open seam/hent/noor form	d			Tagged twice also #817	Octo College To Section 1				Large open seam							Vines			
CONDITION 2012	Good	Fair	Good	Good	Good	Good	Good	Good	Poor	Good	Good	Good	Poor	Good	Good	Good	Good	Good	Good	Good	Good	Fair	Good	Good	Good	Good	Good	Good	Fair	Good	Good	
DBH	14"	16"	6	5"	6,,	12"	22"	7"	6	833	5"	&	11"	17,,	13"		16"							19"		133	17"	13/13"	├~	14/13"	-	
SPECIES	Sugar maple	Black locust	Sugar maple	Black locust	Sugar maple	Sugar maple	Sugar maple	Black locust	Sugar maple	Sugar maple	Red maple	Black locust	Sugar maple	Sugar maple	Sugar maple	Black locust	Black locust	Sugar maple	Hickory	Sassafras	Norway maple (multi stemmed)	Black cherry	Hickory (multi stemmed)	Red oak	temmed)							
TREE#	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	

COMMENTS	CILITATION		Standing dead	Vines/broken ton	Broken top/vines/insects	Vines/insect activity	(av , range and			998	Broken branches/noor form	TOTAL TOTAL TOTAL					Con francein or	Vines/hroken ton	vinca otoken top			93		Vines/poor form	Standing dead	مرمد والمراجع المراجع		gras com /deany	South totaly			S
			Sta	Vin	Bro	Vin				Vines	Bro			-			Prol	Vir.V	1	-	Vines	Vines	Vines	Vine	Stan			Ĭaro	9		-	Vines
CONDITION 2012	Good	Good	Poor	Poor	Poor	Poor	Good	Good	Good	Fair	Fair	Good	Good	Good	Good	Good	Poor	Poor	Good	Good	Poor	Poor	Fair	Poor	Poor	Good	Good	Poor	Good	Good	Fair	Poor
DBH	8"	9	92	5"	15/10/8"	13/11"	6,,	8,,	5	12"	5"	8,,	6	4.,	.6	5"	13"		4,4			6,,				21%	17,	 		12"		15"
SPECIES	Sugar maple	Sugar maple	Elm	Black cherry	Ash (multi stemmed)	Ash (multi stemmed)	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Ash	Hickory (multi stemmed)	Hickory	Black locust	Norway maple	Norway maple	Sugar maple	Sugar maple
TREE#	865	998	867	868	698	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885							-				968

TREE#	SPECIES	DBH	CONDITION 2012	COMMENTS
897	Sugar maple	10"	Poor	Vines
868	Sugar maple	53,	Poor	Vines
668	Sugar maple	5,,	Poor	Vines
006	Sugar maple	4"	Poor	Vines
106	Ash	7:.	Poor	Standing dead/vines
902	Sugar maple	7.,	Poor	Vines
903	Sugar maple	833	Poor	Vines/broken top
904	Sugar maple	4,,	Poor	Vines
905	Norway maple	4,,	Poor	Vines
906	Sugar maple	4,,	Poor	Vines
206	Sugar maple	8,,	Poor	Vines
806	Hickory	21"	Fair	Vines
606	Sugar maple	5"	Poor	Vines
910	Missing			
911	Sugar maple	533	Kair	Door organis
912	Missing		Promise and the second	TOOL COMIT
913	Sugar maple	17"	Good	
914	Sugar maple	6,,	Good	
915	Sugar maple	16"		The state of the s
916	Sugar maple	6	Good	
917	Sugar maple	6,,	Tair	1/200
918	Sugar maple	14"	Poor	Vinacidanii
919	Sugar maple (multi stemmed)	12/4"	Good	v mes/ decay
920	Hickory	21"	Fair	Vines in canony
921	Hickory (multi stemmed)	10/6"	Fair	Company of the control of the contro
922	Sugar maple	63.	Good	
923	Sugar maple	12"	Good	
924	Black gum	12"	Poor	Standing dead
925		6	Good	nnon Gwan
926		4,,	Good	
927		. 6	Good	
928	Sugar maple	11"	Fair	Broken branches

SEVERENCO	Decay/broken base					Large infolding seam/decay	So microming scann accay		Hollow at base	Standing dead	prop Surring							Door 6	1 COL LUTH			Total County of the	Large open seam							Vine	Vince/now for	Decay fungus/seam/poor form
CONDITION 2012	Poor					Fair			Fair	Poor								Fair				Poor								Poor	Poor	Poor
DBH	%3,	13"	12"	17"	14"	8,,	20/10"	12"	21"	18"	53	13"	93	8,,	7"	5"	63	10"	19"	6,,	711	11"	11"	Tr	23"	4,,	633	6.,	6"			12"
SPECIES	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple	(multi stemmed)	Sugar maple	Hickory	Ash	ar maple												Sugar maple									
TREE#	676	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	926	957			096

COMMENTS																												, , , , , , , , , , , , , , , , , , ,				
COMIN		Small crown		Vines in canopy				Poor form/large seam	0									Decay at base										Standing dead				
CONDITION 2012	Good	Fair	Good	Fair	Good	Good	Good	Poor	Good	Fair	Good	Good	Good	Fair	Good	Fair	Good	Good	Good	Poor	Good	Good	Good									
DBH	13"	9	7	17,,	53,				13"		5"	.9	63,,	21"	16"	16"	83,	11"	5,2		8,	53	.01	14"	7"	14"		93,	9	17"	10,,,	
SPECIES	Ash	Hickory	Sugar maple	Sugar maple	Sugar maple	Ash	Sugar maple	Black locust	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Ash	Sugar maple	Sugar maple	Sugar maple	Ash	Sugar maple	Sugar maple	Sugar maple										
TREE#	1961	796	963	964	965	996	296	896	696	970	971	972	973	974	975			826												_		

	COLLOCAL ACC	DBH	CONDITION 2012	COMMENTS
	Sugar maple	8,,	Good	
	Sugar maple	14"	Good	
	Sugar maple	13"	Good	
	Sugar maple	7"	Good	
	Ash	23"	Poor	Decay/broken top/vines
	Sugar maple	9	Good	
	Sugar maple	13"	Good	
1000	Sugar maple	11"	Fair	Vines
1001	Black locust	12"	Poor	Standing dead
1002	Sugar maple	38"	Good	
1003	Hickory	12"	Good	
1004	Sugar maple	30"	Good	
1005	Sugar maple	24"	Good	
1006	Sugar maple	29"	Good	
1007	Sugar maple	16"	Good	
1008	Sugar maple	25"	Good	
1009	Sugar maple	5,,	Good	
1010	Sugar maple	10,,	Good	
1011	Sugar maple	5"	Good	
1012	Sugar maple	27"	Good	
1013	Sugar maple	5"	Good	
1014	Sugar maple	.9	Good	
1015	Sugar maple	20"	Good	
1016	Sugar maple	29"	Fair	Hollow base/broken branches
1017	Sugar maple	7"	Good	
1018	Sugar maple	1155	Poor	Hollow center
1019	Sugar maple	7"	Fair	Broken branches
1020	Sugar maple	7"	Fair	Poor form
1021	Sugar maple	21"	Poor	Broken top
1	Sugar maple	21"	Good	
1023	Sugar maple	26"	Good	
1024	Sugar maple	21"	Good	

COMMENTS	Broken top/small crown				Small crown/decay at base																			decav				decay				
	Broken top/				Small crow																	ļ ,		Open seam/decay	*			Open seam/decay				
CONDITION 2012	Poor	Good	PooD	Good	Fair	Good	Fair	Fair	Good	Good	Good	Good	Poor	Fair	Good	Good	Poor	Good	Good	Good	Good											
DBH	17"	10"	92	16"	17"	15"	5,,	21"	12"	19"	9"	19"	13"	113	18"	7"	6	7	21"	8,,	18"	.9	10"	16"	23"	8,,	12"	15"	17"	16"	27"	17"
SPECIES	Hickory	Sugar maple	Sugar maple	Sugar maple	Hickory	Sugar maple	Ailanthus	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Black locust	Hickory	Sugar maple	Sugar maple	Black locust	Sugar maple	Sugar maple	Sugar maple	Hickory												
TREE#	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	_	1056

COMMENTS								The second secon					Leaning tree	200			9" stem has onen seam	TYPING TING CONT.									Open seam/decay fingus/hroken hranch	אינים ביים אינים א		Decay/broken branches	CONTRACTOR OF THE PROPERTY OF	
CONDITION 2012	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Fair	Good	Fair	Fair	Fair	Good	Good	Good	Good	Good	Good	Good	Good	Good	Poor		Good	Poor		Good
DBH	23"	733	14"	4.9	15"	10"	14"	5,,	63,	20"	93,	10"	20"	24"	9/11/3"	10,,	16/11/9"	27"	18"				21"		,	18"		8**		18"	 -	10,,
SPECIES	Hickory	Sugar maple	Sugar maple	Red oak	Ailanthus	Sugar maple	Red oak	Sugar maple	Sugar maple (multi stemmed)	Elm	Sugar maple (multi stemmed)			ele												Sugar maple						
TREE#	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070			1073	1074	1075			-	1079	_				7		+		1088

COMMENTS	on ground						ecav	Ć.							canker				,										P		
	Dead/fallen on ground						Open seam/decay								11" stem has canker						Poor form	Dead crown							Standing dead		
CONDITION 2012	Poor	Good	Good	Good	Good	Good	Poor	Good	Good	Good	Good	Good	Good	Good	Fair	Good	Good	Good	Good	Good	Poor	Poor	Good	Good	Good	Good	Good	Good	Poor	Good	Good
DBH	10"	19"	16"	13"	16"	8,,	.,6	6,,	19"	73,	10"	7	12"	.91	12/11,,	6	32"	8	14"	13"	6,,	73.	16"	5"	20"	7"	9.,	19"	13"	11,55	17"
SPECIES	Ash	Sugar maple	Sugar maple	Sugar maple	Black locust	Sugar maple	Black locust	Sugar maple	Black locust	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Hickory	Sugar maple (multi stemmed)	Beech	Red oak	Sugar maple	Tulip poplar	Sugar maple	Ash	Sugar maple	Sugar maple								
TREE#	1089	1090	1001	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101		1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	_		1119

1 Ailanthus 7 Fair 2 Sugar maple 19 Good 3 Black locust 10 Door Decay fingus 5 Sugar maple (multi stemmed) 12.1 Good Standing dead 6 Sugar maple (multi stemmed) 12 Poor Standing dead 8 Sugar maple 22 Poor Standing dead 9 Sugar maple 17 Good Open seam 10 Sugar maple 17 Good Dead/fallen over 2 Sugar maple 17 Good Dead/fallen over 3 Black locust 17 Good Dead/fallen over 4 Black locust 17 Good Dead/fallen over 5 Sugar maple 19 Good Dead/fallen over 8 Sugar maple 14 Fair Poor Vines/broken bra 8 Sugar maple 5 Good Sugar maple Sugar maple 6 Fair	TREE#	SPECIES	DBH	CONDITION 2012	COMMENTS
2 Sugar maple 19 Good 3 Black locust 10 poor 4 Ailanthus 12 Good 5 Sugar maple (multi stemmed) 12/17 Good 8 Sugar maple 18 Good 9 Sugar maple 17 Good 10 Sugar maple 17 Good 11 Black locust 17 Good 2 Sugar maple 17 Good 3 Black locust 17 Good 4 Black locust 17 Good 5 Sugar maple 17 Good 6 Sugar maple 17 Good 7 Sugar maple 15 Poor 8 Sugar maple 5 Good 8 Sugar maple 15 Poor 8 Sugar maple 6 Fair 9 Sugar maple 6 Fair 10 Good <td< td=""><td>1121</td><td>Ailanthus</td><td>7</td><td>,</td><td></td></td<>	1121	Ailanthus	7	,	
3 Black locust 10 poor 4 Ailanthus 12 Good 5 Sugar maple (multi stemmed) 12/17 Good 6 Sugar maple 13 Good 7 Sugar maple 22 Poor 8 Sugar maple 17 Good 9 Sugar maple 17 Good 1 Black locust 17 Good 1 Black locust 17 Good 2 Sugar maple 17 Good 3 Sugar maple 17 Good 4 Black locust 17 Good 5 Sugar maple 17 Good 8 Sugar maple 15 Poor 9 Sugar maple 15 Poor 1 Sugar maple 5 Good 2 Sugar maple 6 Fair 3 Sugar maple 6 Fair 4 Hickory <td< td=""><td>122</td><td>Sugar maple</td><td>19</td><td>Good</td><td></td></td<>	122	Sugar maple	19	Good	
4 Ailanthus 12 Good 5 Sugar maple (multi stemmed) 12/17 Good 6 Sugar maple (multi stemmed) 13 Good 7 Black locust 18 Good 8 Sugar maple 17 Good 9 Sugar maple 17 Good 10 Sugar maple 17 Fair 2 Sugar maple 17 Good 3 Black locust 17 Good 4 Black locust 17 Good 5 Sugar maple 10 Good 6 Sugar maple 16 Good 8 Sugar maple 15 Poor 9 Sugar maple 15 Poor 10 Sugar maple 15 Poor 10 Sugar maple 5 Good 10 Sugar maple 15 Poor 10 Sugar maple 16 Fair 10 Sugar maple 16 Good 2 Sugar maple 16 Good 2 Sugar maple 16 Good 2 Sugar maple 10 <td< td=""><td>1123</td><td>Black locust</td><td>10</td><td>poor</td><td>Decay fungus</td></td<>	1123	Black locust	10	poor	Decay fungus
5 Sugar maple (multi stemmed) 12/17 Good 6 Sugar maple (multi stemmed) 13 Good 7 Black locust 17 Good 8 Sugar maple 17 Fair 9 Sugar maple 17 Fair 10 Sugar maple 17 Fair 2 Sugar maple (multi stemmed) 6/12/11 Fair 3 Sugar maple (multi stemmed) 6/12/11 Fair 4 Black locust 10 Good 5 Sugar maple 10 Good 6 Sugar maple 15 Poor 7 Sugar maple 15 Poor 8 Sugar maple 5 Good 8 Sugar maple 15 Fair 8 Sugar maple 16 Good 8 Sugar maple 10 Good 8 Sugar maple 6 Fair 9 Sugar maple 6 Good <	124	Ailanthus	12	Good	
6 Sugar maple 13 Good 7 Black locust 18 Good 8 Sugar maple 22 Poor 9 Sugar maple 17 Good 1 Black locust 17 Fair 2 Sugar maple 17 Good 3 Sugar maple (multi stemmed) 6/12/11 Fair 4 Black locust 19 Good 5 Sugar maple 10 Good 6 Sugar maple 14 Fair 7 Sugar maple 5 Good 8 Sugar maple 5 Good 8 Sugar maple 15 Poor 8 Sugar maple 5 Good 8 Sugar maple 15 Poor 8 Sugar maple 6 Fair 8 Sugar maple 6 Good 9 Sugar maple 6 Good 10 Good G	125	Sugar maple (multi stemmed)	12/17	Good	
7 Black locust 18 Good 8 Sugar maple 22 Poor 9 Sugar maple 17 Good 1 Black locust 17 Fair 2 Sugar maple 17 Fair 3 Black locust 17 Good 4 Black locust 17 Good 5 Sugar maple (multi stemmed) 6/12/11 Fair 6 Sugar maple 19 Good 7 Sugar maple 15 Poor 8 Sugar maple 15 Poor 8 Sugar maple 5 Good 8 Sugar maple 15 Poor 8 Sugar maple 5 Good 8 Sugar maple 15 Poor 8 Sugar maple 6 Fair 8 Sugar maple 6 Good 9 Sugar maple 6 Good 10 Good <td< td=""><td>126</td><td>Sugar maple</td><td>13</td><td>Good</td><td></td></td<>	126	Sugar maple	13	Good	
8 Sugar maple 22 Poor 9 Sugar maple 17 Good 1 Black locust 17 Fair 2 Sugar maple 11 Good 3 Black locust 17 Good 4 Black locust 19 Poor 5 Sugar maple 10 Good 6 Sugar maple 15 Poor 7 Sugar maple 15 Poor 8 Sugar maple 5 Good 9 Fair Fair 8 Sugar maple 5 Good 8 Sugar maple 5 Good 8 Sugar maple 6 Fair 8 Sugar maple 6 Fair 8 Sugar maple 6 Good 8 Sugar maple 6 Good 8 Sugar maple 6 Good 8 Sugar maple 6 Good <t< td=""><td>127</td><td>Black locust</td><td>18</td><td>Good</td><td></td></t<>	127	Black locust	18	Good	
9 Sugar maple 17 Good 10 Sugar maple 9 Good 11 Black locust 11 Good 12 Sugar maple 17 Good 13 Black locust 17 Good 14 Black locust 10 Good 15 Sugar maple 10 Good 16 Sugar maple 15 Poor 17 Sugar maple 15 Poor 18 Sugar maple 5 Good 18 Sugar maple 6 Fair 18 Good Fair 18 Good Sugar maple 6 18 Good Bair 18 Good Bair 19 Good Bair 11 Fair Good 11 Good Bair 11 Good Bair 11 Good Bair 11 Good <td< td=""><td>128</td><td>Sugar maple</td><td>22</td><td>Poor</td><td>Standing dead</td></td<>	128	Sugar maple	22	Poor	Standing dead
D Sugar maple 9 Good 1 Black locust 17 Fair 2 Sugar maple 11 Good 3 Black locust 17 Good 4 Black locust 20 Good 5 Sugar maple (multi stemmed) 6/12/11 Fair 6 Sugar maple 17 Good 7 Black locust 19 Good 8 Sugar maple 14 Fair 9 Pair Poor 8 Sugar maple 15 Poor 8 Sugar maple 5 Good 8 Sugar maple 6 Fair 8 Sugar maple 10 Good 8 Sugar maple 6 Good 8 Sugar maple 10 Good 8 Sugar maple 6 Good 8 Sugar maple 6 Good 8 Sugar maple 10 G	129	Sugar maple	17	Good	Times Green
1 Black locust 17 Fair 2 Sugar maple 11 Good 3 Black locust 17 Good 4 Black locust 20 Good 5 Sugar maple 10 Good 8 Sugar maple 15 Poor 9 Sugar maple 15 Poor 10 Sugar maple 21 Good 10 Sugar maple 21 Good 10 Sugar maple 15 Poor 10 Sugar maple 15 Poor 10 Sugar maple 15 Poor 11 Sugar maple 6 Fair 12 Sugar maple 6 Good 13 Fair Good 14 Fair Fair	130	Sugar maple	6	Good	
2 Sugar maple 11 Good 4 Black locust 17 Good 5 Hickory 20 Good 6 Sugar maple (multi stemmed) 6/12/11 Fair 7 Black locust 17 Good 8 Sugar maple 10 Good 9 Fair Poor 8 Sugar maple 5 Good 8 Sugar maple 5 Good 8 Sugar maple 15 Poor 8 Sugar maple 6 Fair 9 Sugar maple 15 Poor 10 Good Sugar maple 6 Fair 11 Hickory 18 Good 12 Sugar maple 10 Good 13 Fair Good 10 Good Good 10 Good Good 10 Good Good 10 Good Good<	131	Black locust	17	Fair	Onen seam
8 Black locust 17 Good 4 Black locust 19 Poor 5 Sugar maple (multi stemmed) 6/12/11 Fair 6 Sugar maple 10 Good 7 Sugar maple 10 Good 8 Sugar maple 15 Poor 9 Fair Fair 8 Sugar maple 5 Good 8 Sugar maple 5 Good 8 Sugar maple 6 Fair 8 Sugar maple 13 Fair 9 Sugar maple 6 Good 10 Good Good 10 Good Sugar maple 10 10 Good Sugar maple 6 Good 10 Good Sugar maple 10 Good 10 Good Good Good 10 Good Good Good 10 Good Good	132	Sugar maple	11	Good	Chair countr
Hickory 20 Good Sugar maple (multi stemmed) 6/12/11 Fair Black locust 17 Good Sugar maple 10 Good Sugar maple 15 Poor Sugar maple 14 Fair Sugar maple 9 Fair Sugar maple 15 Poor Sugar maple 15 Poor Sugar maple 6 Fair Sugar maple 6 Fair Sugar maple 13 Fair Sugar maple 6 Fair Sugar maple 10 Good Sugar maple 6 Good Sugar maple 10 Good Sugar maple 6 Good Sugar maple 10 Good Sugar maple 6 Good Sugar maple 10 Good Sugar maple 10 Good Sugar maple 10 Good Sugar maple 5 </td <td>133</td> <td>Black locust</td> <td>17</td> <td>Good</td> <td></td>	133	Black locust	17	Good	
Sugar maple (multi stemmed) 6/12/11 Fair Black locust 17 Good Sugar maple 10 Good Sugar maple 15 Poor Sugar maple 9 Fair Sugar maple 5 Good Sugar maple 15 Poor Sugar maple 5 Good Sugar maple 15 Poor Sugar maple 6 Fair Sugar maple 6 Fair Hickory 18 Good Sugar maple 10 Good Sugar maple 6 Good Sugar maple 10 Good Sugar maple 6 Good Sugar maple 6 Good Sugar maple 10 Good Sugar maple 6 Good Sugar maple 10 Good Sugar maple 10 Good Sugar maple 10 Good Sugar maple 10 <td>134</td> <td>Black locust</td> <td>19</td> <td>Poor</td> <td>Dead/fallen over</td>	134	Black locust	19	Poor	Dead/fallen over
Sugar maple (multi stemmed) 6/12/11 Fair Black locust 17 Good Sugar maple 19 Good Sugar maple 14 Fair Sugar maple 9 Fair Sugar maple 5 Good Sugar maple 15 Poor Sugar maple 15 Poor Sugar maple 6 Fair Sugar maple 13 Fair Hickory 18 Good Sugar maple 6 Good Sugar maple 10 Fair	135	Hickory	20	Good	TOAC TOTAL
Black locust 17 Good Sugar maple 10 Good Sugar maple 15 Poor Sugar maple 9 Fair Sugar maple 5 Good Red maple 15 Poor Sugar maple 15 Poor Sugar maple 6 Fair Sugar maple 13 Fair Hickory 18 Good Sugar maple 6 Good Sugar maple 10 Good <td>136</td> <td>Sugar maple (multi stemmed)</td> <td>6/12/11</td> <td>Fair</td> <td></td>	136	Sugar maple (multi stemmed)	6/12/11	Fair	
Sugar maple 10 Good Black locust 19 Good Sugar maple 14 Fair Sugar maple 9 Fair Sugar maple 5 Good Red maple 15 Poor Sugar maple 6 Fair Sugar maple 6 Fair Hickory 18 Good Sugar maple 10 Good Sugar maple 6 Good Sugar maple 6 Good Sugar maple 10 Good	137	Black locust	17	Good	
Black locust 19 Good Sugar maple 15 Poor Sugar maple 9 Fair Sugar maple 5 Good Red maple 15 Poor Sugar maple 21 Good Sugar maple 6 Fair Hickory 18 Good Sugar maple 6 Good Sugar maple 10 Good Sugar maple 6 Good Sugar maple 10 Good	138	Sugar maple	10	Good	
Sugar maple 15 Poor Sugar maple 14 Fair Sugar maple 5 Good Red maple 15 Poor Sugar maple 21 Good Sugar maple 6 Fair Hickory 18 Good Sugar maple 6 Good Sugar maple 6 Good Sugar maple 6 Good Sugar maple 6 Good Sugar maple 10 Good Sugar maple 10 Good Sugar maple 10 Good Sugar maple 10 Good	139	Black locust	19	Good	
Sugar maple 14 Fair Sugar maple 5 Good Red maple 15 Poor Sugar maple 21 Good Sugar maple 6 Fair Hickory 13 Fair Sugar maple 10 Good Sugar maple 6 Good Sugar maple 6 Good Sugar maple 10 Good Sugar maple 10 Good Sugar maple 10 Good Sugar maple 12 Fair	140	Sugar maple	15	Poor	Dead/fallen over
Sugar maple 9 Fair Sugar maple 5 Good Red maple 21 Good Sugar maple 6 Fair Sugar maple 13 Fair Hickory 18 Good Sugar maple 6 Good Sugar maple 6 Good Sugar maple 10 Good Sugar maple 10 Good Sugar maple 10 Fair	141	Sugar maple	14	Fair	Poor form/vines
Sugar maple 5 Good Red maple 15 Poor Sugar maple 6 Fair Sugar maple 13 Fair Hickory 18 Good Sugar maple 10 Good Sugar maple 6 Good Sugar maple 10 Good Sugar maple 10 Good Sugar maple 10 Fair	142	Sugar maple	6	Fair	Poor form/vines
Red maple 15 Poor Sugar maple 21 Good Sugar maple 6 Fair Hickory 18 Good Sugar maple 6 Good Sugar maple 6 Good Sugar maple 10 Good Sugar maple 10 Good Sugar maple 10 Fair	143	Sugar maple	5	Good	TOTAL TRACES
Sugar maple 21 Good Sugar maple 6 Fair Sugar maple 13 Fair Hickory 18 Good Sugar maple 6 Good Sugar maple 10 Good Sugar maple 10 Good Sugar maple 12 Fair	144	Red maple	15	Poor	Vines/hroken branches
Sugar maple 6 Fair Sugar maple 13 Fair Hickory 18 Good Sugar maple 6 Good Sugar maple 10 Good Sugar maple 10 Good Sugar maple 12 Fair	145	Sugar maple	21	Good	TOTAL OTALICIES
Sugar maple 13 Fair Hickory 18 Good Sugar maple 6 Good Sugar maple 10 Good Sugar maple 10 Good Sugar maple 12 Fair	146	Sugar maple	9	Fair	
Hickory 18 Good Sugar maple 10 Good Sugar maple 6 Good Sugar maple 10 Good Sugar maple 12 Fair	147	Sugar maple	13	Fair	Vines
Sugar maple 10 Sugar maple 6 Sugar maple 10 Sugar maple 12	148	Hickory	18	Good	, AAA CO
Sugar maple 6 Sugar maple 10 Sugar maple 12	149	Sugar maple	10	Good	
Sugar maple 10 Sugar maple 12	150		9	Good	
Sugar maple 12	[51			Good	
	[52			Fair	

TREE#	SPECIES	DBH	CONDITION 2012	COMMENTS
1153	Sugar maple	11"	Good	
1154	Sugar maple	9"	Good	
1155	Sugar maple	6,,	Good	
1156	Sugar maple	16"	Good	
1157	Sugar maple	17"	Good	
1158	Sugar maple (multi stemmed)	7/3"	Fair	
1159	Sugar maple	15"	Good	
1160	Sugar maple	15"	Good	
1161	Sugar maple	10"	Good	
1162	Sugar maple	23"	Good	
1163	Sugar maple	28"	Good	
1164	Sugar maple	6,,	Fair	Poor form
1165	Sugar maple	13"	Good	
1166	Sugar maple	10,,	Fair	County at base
1167	Sugar maple	 	Fair	Cavity with decay
1168	Sugar maple		Good	from the contract of
1169	Sugar maple	20"	Good	
1170	Sugar maple	9	Good	
1171	Sugar maple	733	Poor	Standing dead
1172	Sugar maple	12"	Fair	1333 8
1173	Sugar maple	8,,	Good	
1174	Hickory	21"	Fair	Broken branch
	Sugar maple	6"	Good	
Ì	Hickory	17"	Good	
1177		18"	Good	
1178		.6,	Poor	Vines/broken ton
1179		7"	Poor	Vines/broken ton
1180		21"	Good	
1181		13"	Poor	Open seam/decay
+		11"	Good	
		6,,	Good	
1184	Sugar maple	10"	Good	

TREE#	SPECIES	DBH	CONDITION 2012	COMMENTS
1185	Sugar maple	15"	Good	
1186	Sugar maple	6.,	Good	
1187	Sugar maple	13"	Good	
1188	Sugar maple	5"	Good	
1189	Sugar maple	22"	Good	
1190	Sugar maple (multi stemmed)	16/13"	PooD	
1191	Sugar maple	10,,	Fair	Cavity at base
1192	Sugar maple	15"	Good	
1193	Sugar maple	13"	Poor	Standing dead
1194	Sugar maple	16"	Good	
1195	Black locust	12"	Good	
1196	Ash	14"	Good	
1197	Sugar maple	18"	Good	
1198	Sugar maple	12"	Good	
1199	Sugar maple	10"	Good	
1200	Sugar maple	7"	Good	
1201	Sugar maple	12"	Good	
1202	Black walnut	28"	Good	
1203	Sugar maple	12"	Poor	Hollow center
1204	Sugar maple	12"	Fair	
1205		14"	Poor	Open seam/decay funeus
1206		8,,	Poor	
1207		5"	Good	
1208	Black locust	12"	Poor	Decay fungus/open seam
1209		5"	Good	
1210		18"	Fair	
1211	Sugar maple	6,,	Good	
1212	Sugar maple	15"	Good	
1213		9"	Good	
1214		7"	Good	
1215	Black locust	16"	Poor	Open seam
1216	Sugar maple	16"	Good	

TREE#	SPECIES	DBH	CONDITION 2012	COMMENTS
1217	Sugar maple	9	Good	
1218	Sugar maple	6,,	Good	
1219	Black locust	13"	Poor	Open seam/decay
1220	Sugar maple	15"	Good	
1221	Sugar maple	6,,	Good	
1222	Sugar maple	10,,	Good	
1223	Sugar maple	9"	Good	
1224	Black locust	16"	Poor	Decay fungus
1225	Sugar maple	21"	Good	
1226	Sugar maple	14"	Good	
1227	Sugar maple	63	Good	
1228	Sugar maple	18"	Good	
1229	Sugar maple	11"	Poor	Hollow center/decay
1230	Sugar maple	17"	Fair	Vines
1231	Sugar maple	8,,	Fair	Vines
1232	Sugar maple	6"	Poor	Vines
1233	Norway maple	13"	Fair	
1234	Sugar maple	11"	Fair	
1235	Sugar maple	8;,	Good	
1236	Sassafras	6,,	Good	
1237	Sugar maple	922	Good	
1238	Sugar maple	8,,	Good	
1239	Sugar maple	6,,	Fair	
1240	Sugar maple	11"	Good	
1241	Sugar maple	.9	Good	
1242	Sugar maple	7"	Good	
1243	Sugar maple	93,	Good	
1244	Sugar maple	63,	Good	
1245	Sugar maple	6"	Good	
1246	Sugar maple	11,,	Good	
1247	Sugar maple	9"	Good	
1248	Sugar maple (multi stemmed)	15/7"	Good	

COMMENTS									Decay at base														Vines/broken top	vines	Vines		Vines	Standing dead	Vines	Vines	Vines	Vines	
CONDITION 2012	Good	Good	Good	Good	Good	Good	Good	Good	Fair	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Fair	Good	Good	Poor	Poor	Poor	Good	Poor	Poor	Poor	Poor	Poor	Poor	
DBH	18"	18"	5/11"	5"	6"	14"	15"	6/3"	9"	6,,	2,,	15"	10,	28"	8,,	15/25"	8"	11,,	7.,	6,,	12/17/16"	12"	12"	.8/8	7"	13"	9.,	6,,	5"	6,,	5"	12"	
SPECIES	Black walnut	Sugar maple	Sugar maple (multi stemmed)	Sugar maple (multi stemmed)	Sugar maple	Sugar maple	Sugar maple	Black walnut	Sugar maple	Sugar maple	Sugar maple	Tulip (multi stemmed)	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple															
TREE#	1249	1250	1251	1252	1253	1254	1255	1256	1257	1258	1259	1260	1261	1262	1263	1264	1265	1266	1267	1268	1269	1270	1271	1272	1273	1274	1275	1276	1277	1278	1279	1280	

. [SPECIES	DBH	CONDITION 2012	COMMENTS
Su	Sugar maple	14	Fair	vines
Ash	h	12	Poor	Dead/fallen over
S	Sugar maple	10	Good	
ญ	Sugar maple	7	Good	
ŝ	Sugar maple	14	Good	
ซ	Sugar maple	20	Poor	Broken leader/decay fungus
જ	Sugar maple	7	Good	0
જ	Sugar maple	8	Good	
ũ	Sugar maple	11	Good	
Sı	Sugar maple	13	Good	
Š	Sugar maple	10	Good	
ર્જ	Sugar maple	7	Good	
ي.	Sugar maple	11	Good	
รั	Sugar maple	12	Good	
S	Sugar maple	6	Fair	Vines
જ	Sugar maple (multi stemmed)	8/6	Good	
S	Sugar maple	13	Good	
જુ	Sugar maple	13	Good	
S	Sugar maple	6	Fair	Vines
જ	Sugar maple	6	Good	
S	Sugar maple	6	Good	
Ash	sh	17	Good	
જ	Sugar maple (multi stemmed)	6/2	Fair	Vines
ଧ	Sugar maple	9	Poor	Standing dead
Š	Sugar maple	10	Poor	
જ	Sugar maple	5	Fair	
S	Sassafras	11	Fair	
လျှ	Sassafras	6	Fair	
Sa	Sassafras(multi stemmed)	7/13	Poor	7" stem is dead
Sa	Sassafras	14	Fair	
S	Sassafras	12	Fair	
S	Sugar maple	13	Good	

TREE#	SPECIES	DBH	CONDITION 2012	COMMENTS
1313	Sugar maple	8,,	Good	
1314	Sugar maple	8,,	Fair	
1315	Sugar maple	6,,	Fair	
1316	Sugar maple (multi stemmed)	11/11"	Good	
1317	Sugar maple	9"	Good	
1318	Sugar maple	8,,	Good	
1319	Sugar maple	7.,	Good	
1320	Sugar maple	7,,	Good	
1321	Sugar maple	10"	Good	
1322	Sugar maple	11"	Good	
1323	Sugar maple	10"	Fair	
1324	Sugar maple	9"	Good	
1325	Sugar maple	6"	Good	
326	Sugar maple	15"	Good	
1327	Sugar maple	773	Good	
1328	Sugar maple	14"	Good	
329	Sugar maple	63,	Good	
1330	Sugar maple	"L	Good	
1331	Sugar maple	5"	Good	
1332	Sugar maple	6,,	Good	
1333	Sugar maple	633	Poor	Vines
1334	Sugar maple	63	Good	
1335		6,,	Good	
1336		5"	Good	
1337		10,,	Good	
1338		\$3.	Good	
1339		.61	Good	
1340	Sugar maple	83,	Good	
1341	Sugar maple	12"	Good	
1342	Sugar maple	11,,	Good	
1343	Sugar maple		Good	
1344		10"	Good	

TREE#	SPECIES	DBH	CONDITION 2012	COMMENTS
1345	Red maple	9"	Good	
1346	Sugar maple	8,,	Good	
1347	Sugar maple	15"	Pood	
1348	Sugar maple	9"	Poor	Decay at base
1349	Sugar maple	7.,	Good	
1350	Sugar maple	11"	Good	
1351	Sugar maple	10,,	Good	
1352	Sugar maple (multi stemmed)	14/6"	Good	
1353	Sugar maple	6,,	Good	
1354	Sugar maple	10"	Fair	Cavity at base
1355	Red maple (multi stemmed)	16/11/5"	Fair	
1356	Sugar maple	.9	Good	
1357	Sugar maple	6.,	Poor	Vines
1358	Sugar maple	73,	Good	
1359	Sugar maple	15"	Good	
1360	Sugar maple	6,4	Good	
1361	Sugar maple	10"	Good	
1362	Ash	11"	Good	
1363	Sugar maple	12"	Good	
1364	Sugar maple	8,,	Poor	Dead leaders
1365	Sugar maple	17"	Good	
1366	Sugar maple	10"	Good	
1367	Sugar maple	13"	Good	
1368	Sugar maple	7"	Good	
1369	Sugar maple	12"	Good	
1370	Sugar maple	.8/8	Fair	
1371	Sugar maple	17"	Good	
1372	Sugar maple	10"	Good	
1373	Sugar maple (multi stemmed)	14/11"	Good	
1374	Sugar maple	.9	Good	
1375	Sugar maple	7"	Good	
1376	Sugar maple	16"	Good	

TREE#	SPECIES	DBH	CONDITION 2012	COMMENTS
1377	Sugar maple	8	Good	
1378	Sugar maple	773	Good	
1379	Ash	92,	Fair	
1380	Sugar maple	11,,	Good	
1381	Sugar maple	933	Fair	Cavity at base
1382	Sugar maple (multi stemmed)	14/7"	Good	
1383	Sugar maple	7.	Good	
1384	Sugar maple	10"	Good	
1385	Sugar maple	12"	Good	
1386	Sugar maple	12"	Good	
1387	Sugar maple	10,,	Good	
1388	Sugar maple	<i>e</i> 2	Fair	
1389	Sugar maple	11"	Good	
1390	Sugar maple	10"	Good	
1391	Sugar maple	13"	Good	
1392	Sugar maple	6	Good	
1393	Sugar maple	77:	Good	
1394	Sugar maple	14"	Fair	Cavity at base
1395	Sugar maple	10,,	Good	
1396	Sugar maple	12"	Good	
1397	Sugar maple	, <u>*</u>	Good	
1398	Sugar maple (multi stemmed)	15/15"	Fair	One stem has large cavity
1399	Sugar maple	13"	Good	68
1400	Black birch	11"	Poor	Standing dead
1401	Sugar maple	9"	Good	
1402	Sugar maple (multi stemmed)	10/10"	Poor	Seam with some decay
1403	Sugar maple (multi stemmed)	8/7"	Fair	
1404	Sugar maple	14"	Good	
1405	Sugar maple	5"	Poor	Standing dead
1406	Sugar maple	10"	Good	0
1407	Sugar maple	6,,	Good	
1408	Sugar maple	8,,	Fair	

TREE#	SPECIES	DBH	CONDITION 2012	COMMENTS
1409	Sugar maple	9"	Fair	Cavity at base
1410	Sugar maple	7.,	Good	
1411	Sugar maple	5"	Good	
1412	Sugar maple	7"	Fair	Broken top/almost dead
1413	Sugar maple	10"	Good	
1414	Sugar maple	10"	Good	
1415	Sugar maple	13"	Good	
1416	Sugar maple	6,,	Good	
1417	Sugar maple	7"	Good	
1418	Sugar maple	6"	Good	
1419	Sugar maple	.9	Good	
1420	Sugar maple	9	Poor	Vines
1421	Hickory (multi stemmed)	9/20/9"	Poor	Broken leader/partial dead crown
1422	Sugar maple	17,,	Good	
1423	Sugar maple	5"	Good	
1424	Sugar maple	5"	Good	
1425	Sugar maple (multi stemmed)	10/2,,	Fair	
1426	Sugar maple (multi stemmed)	11/4"	Good	
1427	Sugar maple	6"	Good	
1428	Sugar maple	11,,	Good	
1429	Sugar maple	12"	Good	
1430	Sugar maple	13"	Good	
1431	Sugar maple	8,,	Good	
1432	Sugar maple	6,,	Good	
1433	Sugar maple	8	Good	
1434	Sugar maple	10,,	Good	
1435	Sugar maple	12"	Good	
1436	Sugar maple (multi stemmed)	11/10"	Good	
1437	Sugar maple	73,	Fair	Broken branch
1438	Sugar maple	6	Poor	Canker/insect activity
1439	Sugar maple	12"	Good	
1440	Sugar maple	6,,	Good	

COMMENTS	A 4 . V . V . V . V . V . V . V . V . V .						Vines					Vines	Vines	Vines	Vines	Vines	Vines/poor form	Vines	Vines/decay at base/standing dand	coord at pass stantang dead		Forked about 4 5' & starting to salit	Poor crown			Standing dead	Poor form/vines	Vines	Vines/cavity at base	Vines	Firsed with Black chemy	THE THE PERSON OF THE PERSON O
CONDITION 2012	Good	Good	Good	Good	Good	Good	Fair	Good	Good	Good	Fair	Fair	Poor	Poor	Poor	Fair	Poor	Fair	Poor	Good	Good	Poor	Fair	Good	Poor	Poor	Poor	Poor	Poor	Poor	Fair	Fair
DBH	13"	6"	8,,		15"		.6	5"	12"	10,,	4,,	4"	8	<i>e</i> ,,	5/4"	4"	2,,	6	5/5	9,,	5"	23"	6"	8,,	19/12/9"	5"	6	8//	10"	10"	8,,	11/7/5/5"
SPECIES	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Missing	Sugar maple (multi stemmed)	Sugar maple	Sugar maple	Sugar maple					Sugar maple	Sugar maple	Sugar maple (multi stemmed)	Sugar maple	Elm	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple (multi stemmed)								
TREE#	1441	1442	1443	1444	1445	1446	1447	1448	1449	1450	1451	1452	1453	1454	1455	1456	1457	1458	1459	1460	1461	1462	1463	1464	1465	1466	1467	1468	1469	1470	1471	1472

Sn	Sugar maple	DBH 6/3/6/5"	CONDITION 2012 Fair	COMMENTS
White oak	ak	13/19/26"	Poor	13" leader dead/other two large amount of decay
Sugar	aple	5"	Good	
Suga		7"	Good	
Suga		7"	Poor	Broken in half
Suga	Sugar maple	6/4"	Poor	Vines/poor form
Suga		14"	Good	
Suga		6,,	Poor	Broken in half
Suga		6"	Good	
Whit		17,,	Fair	
Whit	White oak	13"	Poor	Vines/dead branches
Suga	Sugar maple	19"	Good	
Suga		5"	Good	
Blac		14"	Good	
Suga		16"	Poor	Vines
Suga		11"	Good	
Blac		13"	Poor	Broken tons/vines
Suga		11"	Good	
Suga		10"	Good	
Suga		6,,	Good	
Suga		7.,	Good	
Suga		13"	Good	
Suga		10,,	Good	
Black		6,,	Good	
Black		10,,	Good	
Suga		922	Good	, , , , , , , , , , , , , , , , , , , ,
Black		6,,	Fair	
Black		10"	Poor	Vines
Black			Poor	Standing dead
Suga			Good	
Black	Black locust	10"	Fair	Vines

TREE#	SPECIES	DBH	CONDITION 2012	COMMENTS
1505	Sugar maple	733	Fair	Vines
1506	Black locust	14"	Fair	Vines
1507	Sugar maple	7.,	Fair	Vines
1508	Black locust	7"	Poor	Open seam
1509	Sugar maple	7	Good	
1510	Sugar maple	5"	Good	
1511	Black locust	13"	Good	
1512	Black locust	8	Good	
1513	Black locust	12"	Good	
1514	Sugar maple	53	Good	
1515	Sugar maple	11"	Good	
1516	Black locust	12"	Good	
1517	Black locust	9"	Good	
1518	Sugar maple	 	Good	
1519	Sugar maple	11"	Good	
1520	Black cherry	10"	Poor	Broken branches/vines
1521	Sugar maple	18"	Good	COURT OF THE STATE
1522	Sugar maple	17"	Fair	Vines
1523	Sugar maple	12"	Fair	Vines
1524	Sugar maple	7"	Fair	Vines
1525	Sugar maple	63,	Poor	Poor form
1526	Sassafras	15"	Fair	Vines
1527	Ash (multi stemmed)	14/12"	Poor	Insect damage/12" stem dead
1528	Sugar maple	8"	Poor	Vines
1529	Sugar maple	10"	Good	
1530	Sugar maple	7".	Fair	Vines
1531	Sugar maple	8,,	Fair	Vines
1532	Sugar maple	7"	Good	
1533	Sugar maple	12"	Good	
1534	Sugar maple	6,,	Good	
1535	Sugar maple (multi stemmed)	10/9"	Poor	Standing dead/vines
1556	Sugar maple	7	Poor	Vines

TREE#	SPECIES	DBH	CONDITION 2012	COMMENTS
1537	Sugar maple	722	Poor	Vines
1538	White oak	29"	Poor	Vines/broken top
1539	Sugar maple	.6	Good	Y. Tarakanananananananananananananananananan
1540	Elm	10"	Poor	Standing dead
1541	Sugar maple	6,,	Poor	Vines
1542	Sugar maple	.,8	Poor	Vines
1543	Sugar maple	7"	Fair	
1544	Sugar maple	7	Poor	Vines
1545	Sugar maple	4,,	Poor	Standing dead
1546	Black birch	17"	Poor	Vines/decav
1547	Sugar maple	16"	Good	
1548	Black locust	12"	Good	
1549	Sugar maple	11"	Good	
1550	Black locust	13"	Good	
1551	Sugar maple	6.,	Good	
1552	Sugar maple	9	Good	
1553	Black locust	10"	Fair	Vines
1554	Sugar maple	9	Good	
1555	Black locust	11"	Good	
1556	Sugar maple	11"	Good	
1557	Black locust	13"	Good	
1558	Black locust	13"	Good	
1559	Sugar maple	5"	Good	
1560	Black locust	13"	Good	
1561	Black locust	10	Good	
1562	Sugar maple	8"	Good	
1563	Black locust	10"	Good	
1564	Sugar maple	7"	Good	
1565	Black locust	10"	Fair	
1566	Black locust	10"	Fair	Vines
1567	Black locust	10"	Good	
1568	Sugar maple	8,,	Fair	Fused with Black locust

COMMENTS	CELETIFICA						Vines in croum	TI CIOMII							Poor form him and	OTHE VINCS					VINES	Som /denny fr.	Se scatt accay tungus at base									
							Vines	Vines	Vines	Vines	CONT				Poor 6	7	l	1/2000	A LLIESS		Decay/vines	I aros	28							Vines	Vince Vince	Vines
CONDITION 2012	Good	Fair	Good	Good	Good	Good	Poor	Fair	Poor			Good	Good	Good	Poor	Good	Fair			Poor	Good			Fair	Fair	Good	Good	Good	Good			
DBH	12"	7"	11"	733	10,,	833	6,,	13"	9"	6,,6	833	11"	7.,	733	6,,6	5"	6,,	23"	73.	13"	63	/31"		73	16"	 -	10"	 			-	8
SPECIES	Black locust	Black locust	Black locust	Sugar maple						Black locust			Sugar maple	ır maple		Sugar maple			Sugar maple			(multi stemmed)	-				ple					
TREE#	1569	1570	1571	1572	1573	1574	1575	1576	1577	1578	1579	1580	1581	1582		-			1587							 	_					1600

TREE#	SPECIES	DBH	CONDITION 2012	COMMENTS
1601	Sugar maple	5"	Fair	Vines
1602	Sugar maple	5"	Good	
1603	Black locust	11"	Poor	Leaning tree
1604	Sugar maple	6,,	Fair	Vines
1605	Black locust	13"	Poor	Decay
1606	Sugar maple	7.,	Good	
1607	Sugar maple	6"	Good	
1608	Sugar maple	5"	Good	
1609	Black locust	11"	Good	
1610	Black locust	10"	Good	
1611	Sugar maple	7"	Good	
1612	Sugar maple	7"	Good	
1613	Black locust	11,,	Fair	
1614	Sugar maple	7.,	Good	
1615	Black locust	11"	Fair	Vines
1616	Black locust	11"	Fair	Vines
1617	Red maple	10"	Fair	Vines/broken limbs
1618	Black locust	113	Good	
1619	Black locust	12"	Pood	
1620	Red maple	16/4"	Good	
1621	Black locust	112	Good	
1622	Red maple	5"	Good	
1623	Black locust	10,,	Good	
	Black locust	01	Good	
	Black locust	6,,6	Fair	Vines
	Black locust	6	Good	
1627	Black locust	9	Poor	Standing dead
1628	Red maple	8,,	Good	
1629	Black locust	9"	Good	
1630	Sugar maple	8,,	Good	
	Sugar maple	7"	Fair	
1632	Sugar maple	6,,	Poor	Leaning tree

TREE#	SPECIES	DBH	CONDITION 2012	COMMENTS
1633	Sugar maple	7"	Good	
1634	Black locust	10,,	Good	Tagged twice (also 1671)
1635	Red oak	10"	Good	
1636	Red oak	11,,	Good	
1637	Red oak	25"	Fair	
1638	Sugar maple	6,,	Good	A THE PARTY OF THE
1639	Sugar maple	10"	Good	
1640	Sugar maple	5"	Good	
1641	Sugar maple	5.,	Poor	Leaning tree
1642	Sugar maple	9	Poor	Standing dead
1643	Sugar maple	7"	Good	
1644	Sugar maple	6,,	Poor	Bent over/vines
1645	Sugar maple	6.,	Good	
1646	Sugar maple	10,,	Fair	Vines
1647	Sugar maple	533	Fair	Vines
1648	Sugar maple	8"	Good	
1649	Sugar maple	7.	Good	
1650	Ash	1132	Poor	Standing dead
1651	Sugar maple	6,,6	Poor	Standing dead
1652	Sugar maple	7"	Good	
1653	Ash	6	Good	
1654	Missing			
1655	Sugar maple	5,,	Good	
1656	Sugar maple (multi stemmed)	10/2"	Good	
1657	Sugar maple	11"	Good	
1658	Ash	6.,	Good	
1659		6	Good	
1660			Good	
1661	rch	`	Good	
1662		17"	Fair	Poison ivv
1663			Good	
1664		6,,	Fair	Vines

TREE#	SPECIES	DBH	CONDITION 2012	COMMENTS
	Sugar maple (multi stemmed)	13/3"	Good	
	Sugar maple	7.,	Fair	Vines
	Sugar maple	7"	Fair	Vines
	Ash	11"	Fair	Vines
	Ash	10,,	Fair	vines
	Sugar maple	6,,	Good	
	Black locust	10,,	Good	Tagged twice (1634)
	Black locust	12"	Good	
	Black locust	73	Good	TABLE TO THE PARTY OF THE PARTY
	Black locust	6,,	Good	
	Black locust	12"	Good	
	Black locust	6	Good	
	Sugar maple	63	Fair	Vines
	Sassafras	15"	Good	
	Black locust	5"	Poor	Standing dead
	Black locust	11,	Good	
	Black locust	11"	Good	
Ī	Sugar maple	5"	Good	
	Sugar maple	6,,6	Fair	
	Sugar maple	6,,	Poor	Broken in half
	Sugar maple	7"	Good	
	Tulip poplar	23"	Fair	
	Sugar maple	7"	Good	
	Sugar maple	8,,	Good	
	Sugar maple	922	Good	
	Black locust	12"	Good	
	Black locust	11,,	Fair	Leaning tree
	Ash	10"	Good	
		6,,	Good	
\neg	Sugar maple	7,,	Good	
	Sugar maple	6,,	Good	
	Tulip poplar	24"	Poor	Standing dead

TREE#	SPECIES	DBH	CONDITION 2012	COMMENTS
1697	Ash	8,,	Fair	Vines
8691	Black locust	8,,	Good	
1699	Sugar maple	13"	Good	
1700	Sugar maple	6,,	Fair	Vines
1701	Black locust		Poor	Leaning tree
1702	Sugar maple	6,,	Good	
1703	Black locust	8,,	Fair	Vines
1704	Black locust	6	Fair	Vines
1705	Sugar maple	5"	Fair	Poor form
1706	Ash	16"	Good	
1707	Sugar maple	5,,	Good	
1708	Sugar maple	9	Good	
1709	Black locust	8,,	Poor	Open wound
1710	Sugar maple	8,,	Fair	
1711	Sugar maple	7"	Good	
1712	Sugar maple	5,,	Fair	Vines
1713	Ash	15"	Fair	Vines
1714	Sugar maple	8,,	Good	
1715	Sugar maple	7"	Good	
1716	Sugar maple	6,,	Good	
1717	Sugar maple	6"	Poor	Small crown
1718	Ash	13"	Fair	Vines
1719	Sugar maple	6"	Good	
1720	Sugar maple	8,,	Good	
1721	Black cherry	12"	Poor	Vines
1722	Sugar maple ·	7"	Poor	Vines/broken top
1723	Sugar maple	6,,	Poor	Vines/broken top
1724	Sugar maple	10"	Fair	Vines
1725	Sugar maple	7"	Poor	Vines
1726	Sassafras	13"	Poor	Broken top
1727	Black cherry	9"	Poor	Vines/broken limbs
1728	Ash	9,,	Poor	Vines

COMMENTS	Vines/cavity at base	Vines	Damage to bole	Decay/standing dead	Vines	Vines/insect activity	Vines	Vines	Broken limbs	Standing dead			Standing dead	Vines		Broken top			Vines						Standing dead					Some vines	
CONDITION 2012	Fair	Fair	Fair	Poor	Fair	Poor	Fair	Fair	Fair	Poor	Good	Good	Poor	Fair	Good	Poor	Good	Good	Fair	Good	Good	Fair	Good	Good	Poor	Good	Good	Good	Fair	Fair	Good
DBH	1133	11"	16"	722	8"	11,2	6,,	1133	733	10"	9	,,6	53,	12"	10"	733	7"	11,,	11"	5"	13"	1133	12"	10,,		7	14"	7"	5"	15/17"	\$3,
SPECIES	Sugar maple	Ash	Sugar maple	Ash	Sugar maple	Ash	Sugar maple	Sugar maple	Sugar maple	Ash	Sugar maple	Ash	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Ash	Sugar maple	Sugar maple	Ash	Sugar maple	Sugar maple	Ash	Sugar maple	Hickory	Sugar maple	Hickory	Ash (multi stemmed)	Hickory
TREE#	1729	1730	1731	1732	1733	1734	1735	1736	1737	1738	1739	1740	1741	1742	1743	1744	1745	1746	1747	1748	1749	1750	1751	1752	1753	1754	1755	1756		1758	1759

8/12"
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10"

TREE#	SPECIES	DBH	CONDITION 2012	COMMENTS
1793	Sugar maple	% ;		
1794	Red maple	6	Poor	Broken in half
1795	Sugar maple	12"		
1796	Sugar maple	6,,	Poor	Broken top/vines
1797	Sugar maple	6,,		
1798	Ash (multi stemmed)	18/21"	Poor	Standing dead
1799	Sugar maple	10"		
1800	Red oak	33"		
1801	Ash	23"	Fair	
1802	Red maple		Fair	
1803	Sugar maple	13"		
1804	Sugar maple	16"		
1805	Sugar maple	5.,		
1806	Sugar maple	8"		
1807	Sugar maple	63,3		
1808	Sugar maple	6,,		
1809	Sugar maple	19"		
1810	Sugar maple	11,,		
1811	Sugar maple	24"		
1812	Black locust	12"	Fair	Seam
1813	Sugar maple	10"	-	
1814	Black locust	8,,	Poor	Large seam/decay
1815	Sugar maple	7.,	Poor	Vines/poor form
1816	Sugar maple	7),		
1817	Sugar maple	7"	Poor	Vines
1818	Ash	13"	Poor	Standing dead
1819	Hickory	14"		
1820	Sugar maple	5"		
1821	Hickory (multi stemmed)	12/11"	Poor	Vines
822	Sugar maple	922	Poor	Vines
1823	Sugar maple	6,,	Fail	Poor form
824	Sugar maple (multi stemmed)	14/29"		

COMMENTS		Forked/decay fungus/broken limb																
CONDITION 2012	Good	Poor	Good				9 9 9											
DBH	7"	36,,	21"														•	
SPECIES	Norway maple	Sugar maple	Hickory										The state of the s					
TREE#	1825	1826	1827	ı														

TREE#	SPECIES	DBH	CONDITION 2012	COMMENTS
2501	Ash	10"	Poor	Fallen over
2502	Ash	1177	Good	
2503	Sugar maple	12"	Good	
2504	Ash	10,,	Poor	Vines/broken top
2505	Sugar maple	8,,	Fair	
2506	Ash	12"	Poor	Vines/broken top
2507	Ash	10"	Good	
2508	Sugar maple	12"	Good	
2509	Black cherry	7.,	Poor	Vines
2510	Ash	11,,	Poor	vines
2511	Sugar maple	8,,	Good	
2512	Sugar maple	15"	Good	
2513	Ash	10"	Poor	Vines
2514	Sugar maple	11"	Fair	
2515	Sugar maple	14"	Poor	Standing dead
2516	Elm	11"	Poor	Insects/dead branches
2517	Ash	12"	Fair	Vines
2518	Sugar maple	8,,	Good	
2519	Ash	8"	Good	
2520	Ash	6"	Poor	Vines
2521	Missing		Good	
2522	Sugar maple	14"	Good	
2523	Sugar maple	8"	Good	
2524	Sugar maple/Ash (fused)	12/13"	Good	
2525	Sugar maple	11"	Good	
2526	Sugar maple	7"	Poor	Broken in half
2527	Ash	11,,	Poor	Vines
2528	Sugar maple	5"	Good	
2529	Ash	1135	Fair	
2530	Sugar maple	6,46	Good	
2531	Sugar maple	7,,	Good	
2532	Ash	11"	Fair	
!				

COMMENTS																									7		both				
CON	Vines	Vines	Vines					Standing dead	Vines	Vines	Vines	Vines	Vines	Vines	Vines	Vines	Standing dead	TOO STUDIES			Broken in half	Broken ton/vines	court of autos	Vines/poor form/decay	Vines/poor form	Vines	10" stem dead/vines in both	Vines		Broken top/vines	
CONDITION 2012	Fair	Poor	Poor	Fair	Good	Fair	Good	Poor	Poor	Poor	Poor	Poor	Fair	Fair	Poor	Poor	Poor	Fair	Fair	Fair	Poor	Poor	Good	Poor	Poor	Poor	Poor	Poor	Fair	Poor	
DBH	6,,	10,,	5"	12"	14"	01	8,,	8,,	6.,		% ;	7"	15"	7"	10"	9,,	6,,		 		18"		10"			10"	0,,	6,	14		550
SPECIES	Ash	Black cherry	Ash	Ash	Ash	Sugar maple	Sugar maple	Ash	Ash	Ash	Ash	Ash	Ash	Sugar maple	Sugar maple	Ash	Ash	Ash	Sugar maple	Sugar maple	Sugar maple	Ash	Sugar maple	Black cherry			(multi stemmed)				Ach
TREE#	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552		2554	7	 			1	7			2563

Ash Good Sugar maple 10" Good Sugar maple 11" Poor Vines Sugar maple 9" Good Vines Sugar maple 10" Good Vines Black cherry 10" Poor Vines Black cherry 6" Pair Vines Black cherry 6" Poor Vines Black cherry 6" Poor Vines Black cherry 8" Pair Vines Ash 11" Fair Cood Ash 11" Fair Poor Ash 11" Fair Poor Sugar maple 8" Fair Poor Sugar maple 8" Poor Vines Sugar maple 8" Poor Vines Sugar maple 6" Good Ash Ash 12" Fair Ash Sugar maple 6" Good Ash	TREE#	SPECIES	DBH	CONDITION 2012	COMMENTS
Sugar maple 10" Good Ash 11" Poor Sugar maple 9" Good Sugar maple 10" Good Black cherry 8" Poor Black cherry 8" Poor Black cherry 8" Poor Black cherry 8" Poor Ash 7" Good Ash 14" Good Ash 17" Fair Missing 7 Fair Ash 17" Good Sugar maple 8" Fair Sugar maple 8" Foor Sugar maple 9" Poor Sugar maple 9" Good Ash Poor Ash Sugar maple 6" Good Sugar maple 6" Good Ash Poor Good Ash Fair Ash Sugar maple (tagged as 1095) 6" Good	2565	Ash	8,,	Good	
Sugar maple 13" Fair Ash 11" Poor Sugar maple 9" Good Black cherry 8" Poor Black cherry 8" Poor Black cherry 8" Poor Black cherry 6" Fair Black cherry 8" Fair Ash 7" Good Ash 14" Good Ash 11" Fair Missing 8" Fair Ash 10" Good Ash Poor Sugar maple Sugar maple 8" Fair Ash Poor Poor Sugar maple 9" Good Ash Poor Good Ash Fair Fair Sugar maple 6" Good Ash Poor Good Ash Fair Fair Ash Poor Good Ash P	2566	Sugar maple	10"	Good	
Ash 11" Poor Sugar maple 9" Good Sugar maple 10" Good Black cherry 8" Poor Black cherry 8" Poor Black cherry 8" Fair Sugar maple 7" Good Ash 17" Fair Ash 17" Fair Missing 17" Fair Sugar maple 8" Good Sugar maple 8" Fair Ash 8" Foor Ash 8" Foor Ash 8" Foor Sugar maple 8" Foor Ash Ash Fair Ash Sugar maple 6" Good	2567	Sugar maple	13"	Fair	
Sugar maple 9" Good Sugar maple 10" Good Black cherry 10" Poor Black cherry 8" Fair Black cherry 8" Food Black cherry 8" Fair Sugar maple 7" Good Ash 17" Good Ash 11" Fair Missing 11" Fair Missing 8" Good Ash 8" Good Ash 8" Fair Ash 9" Poor Sugar maple 8" Fair Ash 9" Poor Ash 10" Good Ash 12" Fair Sugar maple 6" Good Sugar maple 6" Good Sugar maple 6" Good Ash Sagar maple 6" Good Sugar maple 6" Good	2568	Ash	11"	Poor	Vines
Sugar maple 10" Good Black cherry 10" Poor Black cherry 8" Poor Black cherry 6" Fair Black cherry 8" Fair Sugar maple 7" Fair Ash 14" Good Ash 11" Fair Missing " Cood Ash 10" Good Ash Poor Fair Ash Poor Poor Sugar maple 8" Fair Ash 9" Good Ash 12" Fair Ash Good Sood Sugar maple 6" Good Sugar maple 8" Fair Ash Poor Good Ash	2569	Sugar maple	6,,	Good	
Black cherry 10" Poor Black cherry 8" Poor Black cherry 6" Fair Black cherry 8" Fair Sugar maple 7" Good Ash 14" Good Ash 11" Fair Missing 8" Good Ash 8" Good Ash Poor Fair Sugar maple 8" Fair Sugar maple 8" Poor Ash 9" Poor Ash 12" Fair Ash 6" Good Sugar maple 6" Good Ash Poor Good Ash Poor Good Ash Good Good Ash	2570	Sugar maple	10,,	Good	
Black cherry 8" Poor Black cherry 6" Fair Black cherry 8" Fair Sugar maple 7" Good Ash 14" Good Ash 11" Fair Missing 11" Fair Missing 8" Good Sugar maple 8" Fair Sugar maple 8" Foor Sugar maple 8" Fair Ash 9" Poor Ash 12" Fair Ash 6" Good Sugar maple 6" Good Sugar maple 6" Good Sugar maple 6" Good Ash 7" Fair Ash 6" Good Ash 6" G	2571	Black cherry	10"	Poor	Vines/poor form
Black cherry 6" Fair Black cherry 8" Fair Sugar maple 7" Good Ash 14" Good Ash 11" Fair Missing 11" Fair Missing 8" Good Ash 10" Good Sugar maple 8" Fair Sugar maple 8" Fair Ash 9" Poor Ash 12" Fair Ash 12" Fair Ash 6" Good Ash 9" Good Ash 6" Good Ash 9" Good Ash 9" Good Ash 9" Good Ash 9" Good Ash Poor Good Ash Poor Good Ash Poor Good Ash Poor Good	2572	Black cherry	8,,	Poor	Vines
Black cherry 8" Fair Sugar maple 7" Good Ash 14" Good Ash 11" Fair Missing 11" Fair Missing 11" Fair Missing 11" Fair Sugar maple 8" Good Sugar maple 8" Fair Sugar maple 8" Fair Ash 9" Poor Ash 12" Fair Ash 6" Good Ash 9" Good Ash Poor Good Ash Poor Good Ash Poor Good	2573	Black cherry	6,,	Fair	
Sugar maple 7" Good Ash 14" Good Ash 13" Good Ash 11" Fair Missing 11" Fair Missing 11" Fair Missing 8" Good Sugar maple 8" Fair Sugar maple 8" Foor Sugar maple 8" Foor Ash 9" Poor Ash 12" Fair Ash 6" Good Ash 6" Good Ash 9" Good Ash 9" Good Ash 8" Poor Ash 9" Good Ash 9" Good Ash 9" Good Ash Poor Good Ash Poor Good Ash Poor Good Ash Poor Good <	2574	Black cherry	8,,	Fair	
Ash 7" Fair Ash 14" Good Ash 11" Fair Missing ** Fair Missing ** Good Sugar maple 8" Fair Sugar maple 8" Fair Ash Poor Poor Ash 9" Poor Ash 12" Fair Ash Good Good Sugar maple 6" Good Sugar maple 6" Good Sugar maple 6" Good Ash Good Good Ash Ash Good Ash Good Good Ash Ash Poor Ash Good Good Ash Poor Good	2575	Sugar maple	7"	Good	
Ash 14" Good Ash 13" Good Ash 11" Fair Missing 8" Good Sugar maple 8" Fair Sugar maple 8" Fair Sugar maple 8" Fair Ash 9" Poor Ash 9" Poor Sugar maple 6" Good Sugar maple 6" Good Sugar maple 6" Good Sugar maple 6" Good Ash 9" Good Ash 9" Good Ash 9" Good Ash Poor Good Ash 8" Fair Ash Poor Good Ash Poor Ash Poor Ash Poor Ash Poor Ash Poor Ash Poor Ash Poor<	2576	Ash	7.,	Fair	
Ash 13" Good Ash 11" Fair Missing 600d 600d Sugar maple 8" Good Sugar maple 8" Fair Sugar maple 8" Poor Ash 9" Poor Ash 12" Fair Ash 12" Fair Sugar maple 6" Good Sugar maple 6" Good Ash 9" Good Ash 9" Good Ash 8" Poor Ash 8" Poor Ash 8" Poor Ash 8" Poor Ash 8" Fair	2577	Ash	14"	Good	
Ash II" Fair Missing 8" Good Sugar maple 8" Fair Sugar maple 8" Fair Sugar maple 8" Poor Sugar maple 8" Poor Ash Poor Poor Ash 12" Fair Ash 12" Fair Sugar maple 6" Good Sugar maple 6" Good Ash 4sh Poor Ash 4sh Poor Ash 8" Poor Ash 6" Good Ash 8" Poor Sugar maple (tagged as 1095) 6" Good Ash 8" Poor Sugar maple (tagged as 1095) 6" Good Ash Fair Good	2578	Ash	13"	Good	
Missing Missing Sugar maple 8" Good Ash 8" Fair Sugar maple 8" Foor Sugar maple 8" Poor Sugar maple 8" Fair Ash 9" Poor Sugar maple 12" Fair Ash 12" Fair Ash 6" Good Sugar maple 6" Good Ash 9" Good Ash 9" Good Ash 8" Poor Ash 9" Good Ash 8" Poor Sugar maple (tagged as 1095) 6" Good Ash 8" Poor Sugar maple (tagged as 1095) 6" Good Ash Fair	2579	Ash	11"	Fair	
Missing Rissing Sugar maple 8" Good Sugar maple 10" Good Sugar maple 8" Fair Ash 9" Poor Ash 12" Fair Sugar maple 6" Good Sugar maple 6" Good Sugar maple 6" Good Ash 9" Good Ash 9" Good Ash 9" Good Ash 8" Poor Sugar maple (tagged as 1095) 6" Good Ash 8" Poor Sugar maple (tagged as 1095) 6" Good Ash Fair Fair	2580	Missing			
Sugar maple 8" Good Ash 10" Good Sugar maple 8" Fair Sugar maple 8" Fair Ash 9" Poor Ash 12" Fair Sugar maple 6" Good Sugar maple 6" Good Ash 9" Good Ash 9" Good Ash 9" Good Ash 9" Good Ash 8" Poor Ash 8" Poor Ash Poor Good Ash Rair Poor Ash Fair Fair	2581	Missing	:		
Ash 8" Fair Sugar maple 10" Good Sugar maple 8" Poor Ash 9" Poor Ash 9" Poor Sugar maple 12" Fair Ash 12" Fair Sugar maple 6" Good Ash 6" Good Ash 8" Poor Ash 8" Poor Sugar maple (tagged as 1095) 6" Good Ash 8" Poor Ash Fair Fair	2582	Sugar maple	% %	Good	
Sugar maple 10" Good Sugar maple 8" Poor Ash 9" Poor Ash 9" Poor Sugar maple 12" Fair Sugar maple 6" Good Sugar maple 6" Good Ash 9" Good Ash 9" Good Ash 8" Poor Sugar maple (tagged as 1095) 6" Good Ash 8" Poor Ash Fair	2583	Ash	83,	Fair	
Sugar maple 8" Poor Ash 9" Poor Ash 9" Poor Sugar maple 12" Fair Sugar maple 6" Good Ash 6" Good Ash 9" Good Ash 9" Good Ash 8" Poor Sugar maple (tagged as 1095) 6" Good Ash 8" Poor Ash Rair Fair	2584	Sugar maple	10"	Good	
Sugar maple 8" Fair Ash 9" Poor Ash 12" Fair Sugar maple 6" Good Sugar maple 6" Good Ash 9" Good Ash 9" Good Ash 8" Poor Sugar maple (tagged as 1095) 6" Good Ash 8" Fair	2585	Sugar maple	4.8	Poor	Poor form/vines
Ash 9" Poor Ash 12" Fair Ash 12" Fair Sugar maple 6" Good Ash 9" Good Ash 9" Good Ash 8" Poor Sugar maple (tagged as 1095) 6" Good Ash 8" Foor Ash Fair	2586	Sugar maple	8,,	Fair	
Ash 9" Poor Sugar maple 12" Fair Ash 12" Fair Sugar maple 6" Good Ash 9" Good Ash 8" Poor Sugar maple (tagged as 1095) 6" Good Ash 8" Foor Ash Fair	2587	Ash	6	Poor	Vines
Sugar maple 12" Fair Ash 12" Fair Sugar maple 6" Good Ash 9" Good Ash 8" Poor Sugar maple (tagged as 1095) 6" Good Ash 8" Fair	2588	Ash	6	Poor	Vines
Ash 12" Sugar maple 6" Ash 9" Ash 8" Sugar maple (tagged as 1095) 6" Ash 8" Ash 8"	2589	Sugar maple	12"	Fair	
Sugar maple 6" Sugar maple 6" Ash 9" Ash 8" Sugar maple (tagged as 1095) 6" Ash 8"	2590	Ash	12"	Fair	
Sugar maple 6" Ash 9" Ash 8" Sugar maple (tagged as 1095) 6" Ash 8"	2591	Sugar maple	6,,	Good	
Ash 9" Sugar maple (tagged as 1095) 6" Ash 8"	2592	Sugar maple	6,,	Good	
Ash Sugar maple (tagged as 1095) 6" Ash	2593	Ash	6	Good	
Sugar maple (tagged as 1095) 6" Ash	2594	Ash	8,,	Poor	
Ash 8"	2595	Sugar maple (tagged as 1095)	6,,	Good	
	2596	Ash	8,,	Fair	

COMMENTS		Vines		The state of the s	Broken top/epicormic sprouts	, , , , , , , , , , , , , , , , , , ,										Vines	Broken top/vines	Vines	Standing dead/vines	0	Standing dead/vines	Vines			Vines	Vines	Vines	Vines	Vines	Vines/broken top	
CONDITION 2012	Fair	Poor	Good	Good	Poor	Good	Good	Good	Good	Fair	Fair	Fair	Fair	Good	Good	Poor	Poor	Poor	Poor	Good	Poor	Poor	Good	Fair	Poor					Poor	
DBH	.9	10,,	8,,	12"	93,	9"	83,3	10"	14"	11"	10,,	133	7"	10"	13/9"	7"								11"			7		10"		
SPECIES	Ash	Ash	Sugar maple	Ash	Ash	Ash	Sugar maple	Sugar maple	Ash	Ash	Ash	Ash	Ash (tagged as 1109)	Sugar maple	Ash (multi stemmed)	Sugar maple	,	Black cherry	Ash	Sugar maple		(tagged as 1118)			Ash		Black cherry		Ash		Sugar monte
TREE#	2597	2598	2599	2600	2601	2602	2603	2604	2605	2606	2607	2608	2609	2610	2611	2612	2613	2614	2615	2616	2617	2618	2619	2620	2621	2622	2623	2624	2625	2626	2627

Vines Vines Vines/broken to Vines/broken to Vines/broken to Vines/broken to Vines/broken to Vines/broken to Vines Fallen over Vines Vines	TREE#	SPECIES	DBH	CONDITION 2012	COMMENTS
Ash 7" Fair Ash 11" Good Ash 8" Fair Ash 8" Fair Ash 9" Poor Ash 10" Fair Ash 10" Fair Ash 9" Poor Ash 9" Poor Ash 12" Fair Ash 12" Fair Ash 12" Poor Ash 12" Fair Ash 12" Fair Ash 12" Fair Ash 12" Fair Ash 9" Poor Ash 9" Poor Ash 9" Fair Black cherry 6" Fair Black cherry 6" Fair Ash 9" Food Ash 9" Fair Ash 9" Fair Ash 9" <td>2661</td> <td>Sugar maple</td> <td>6</td> <td>Good</td> <td></td>	2661	Sugar maple	6	Good	
Sugar maple 11" Good Ash 8" Fair Ash 13" Poor Hickory 9" Poor Sugar maple 12" Poor Ash 10" Fair Ash 9" Poor Ash 9" Poor Ash 17" Poor Ash 12" Fair Ash 12" Fair Ash 12" Poor Ash 12" Poor Ash 12" Poor Ash 12" Poor Ash 9" Poor Ash 9" Fair Black cherry 6" Fair Black cherry 6" Fair Ash 9" Good Ash 9" Fair Ash Fair Good Ash 6" Fair Ash Fair Good As	2662	Ash	7	Fair	
Ash 11" Poor Ash 8" Fair Ash 8" Fair Ash 9" Poor Ash 12" Poor Ash 10" Fair Ash 10" Fair Ash 9" Poor Ash 12" Fair Ash 12" Fair Ash 12" Foor Ash 12" Fair Ash 12" Fair Ash 12" Fair Ash 11" Fair Ash 9" Poor Ash 9" Fair Black cherry 6" Fair Black cherry 6" Fair Ash 9" Foor Ash 9" <td>2663</td> <td>Sugar maple</td> <td>11,,</td> <td>Good</td> <td></td>	2663	Sugar maple	11,,	Good	
Ash 8" Fair Ash 13" Poor Hickory 9" Poor Sugar maple 12" Poor Ash 10" Fair Ash 10" Fair Ash 9" Poor Ash 9" Poor Ash 12" Fair Ash 12" Fair Ash 12" Poor Ash 12" Poor Ash 11" Fair Ash 11" Fair Ash 11" Fair Ash 9" Poor Ash 9" Fair Black cherry 6" Fair Black cherry 6" Fair Black cherry 8" Good Ash 9" Foor Ash 9" Foor Ash 9" Foor Ash 9" Foor Ash </td <td>2664</td> <td>Ash</td> <td>11,,</td> <td>Poor</td> <td>Vines</td>	2664	Ash	11,,	Poor	Vines
Ash 13" Poor Ash 8" Fair Hickory 9" Poor Sugar maple 12" Poor Ash 10" Fair Ash 10" Fair Ash 9" Poor Ash 9" Poor Ash 12" Poor Ash 12" Poor Ash 12" Poor Ash 12" Poor Ash 11" Fair Ash 9" Poor Ash 9" Poor Ash 9" Fair Black cherry 6" Fair Black cherry 6" Fair Ash 9" Good Ash 9" Poor Ash 9" Fair Ash 9" Good Ash 9" Fair Ash 9" Fair Ash	2665	Ash	***	Fair	
Ash 8" Fair Hickory 9" Poor Ash 12" Poor Ash 10" Fair Ash 10" Fair Ash 9" Poor Ash 9" Poor Ash 14" Good Ash 12" Fair Ash 12" Poor Ash 12" Poor Ash 12" Poor Ash 11" Fair Ash 9" Poor Ash 9" Fair Black cherry 6" Fair Black cherry 6" Fair Ash 9" Good Ash 9" Good Ash 9" Fair Ash 9" Fair Ash 9" Fair Ash 9" Fair Ash 7" Good Ash 7"<	2666	Ash	13"	Poor	Vines
Hickory 9" Poor Ash 12" Poor Ash 10" Fair Sugar maple 8" Good Ash 9" Poor Ash 9" Poor Ash 12" Fair Ash 12" Poor Ash 12" Poor Ash 11" Fair Ash 9" Poor Ash 9" Poor Ash 9" Fair Ash 9" Fair Ash 9" Fair Black cherry 6" Fair Ash 9"	2667	Ash		Fair	
Sugar maple 12" Poor Ash 10" Fair Ash 10" Fair Ash 12" Fair Ash 9" Poor Ash 9" Poor Ash 12" Poor Ash 12" Poor Ash 11" Fair Ash 11" Fair Ash 9" Poor Ash 9" Poor Ash 9" Fair Ash 9" Fair Ash 9" Fair Ash 6" Fair Ash 9" Fair Ash 9" <t< td=""><td>2668</td><td>Hickory</td><td>93,</td><td>Poor</td><td>Vines/broken ton</td></t<>	2668	Hickory	93,	Poor	Vines/broken ton
Ash 9" Poor Ash 10" Fair Sugar maple 8" Good Ash 9" Poor Ash 9" Poor Ash 12" Poor Ash 12" Poor Ash 12" Poor Ash 12" Poor Ash 11" Fair Ash 9" Poor Ash 9" Poor Black cherry 6" Fair Black cherry 6" Fair Black cherry 6" Fair Ash Good Ash Ash 9" Foor Ash 9" Fair Ash 9" Foor Ash Poor Fair Ash	2669	Sugar maple	12"	Poor	Broken ton/vines
Ash 10" Fair Sugar maple 8" Good Ash 9" Poor Ash 9" Poor Ash 9" Poor Ash 12" Fair Ash 12" Fair Ash 12" Poor Ash 12" Poor Ash 8" Fair Ash 9" Fair Black cherry 6" Fair Black cherry 6" Fair Ash 9" Foor Ash 9" Foor Ash 7" Good Ash 9" Fair Ash 9" Foor Ash 9" Fair Ash 9" Poor Ash 9" Fair Ash 9" Fair Ash 9" Fair Ash 7" Fair Ash 7"<	2670	Ash	9;,	Poor	Vines/broken ton
Sugar maple 8" Good Ash 12" Fair Ash 9" Poor Ash 9" Poor Ash 12" Fair Ash 12" Fair Ash 12" Poor Ash 11" Fair Ash 8" Fair Ash 9" Fair Ash 9" Fair Black cherry 6" Fair Black cherry 6" Fair Ash 9" Food Ash 9" Fair Ash 9" Fair Ash 9" Food Ash 9" Fair Ash 9" Fair	2671	Ash	10"	Fair	dor mario
Ash 12" Fair Ash 9" Poor Ash 7" Poor Ash 9" Poor Ash 12" Fair Ash 12" Poor Ash 11" Fair Ash 8" Fair Ash 9" Poor Sugar maple 9" Fair Black cherry 6" Fair Black cherry 6" Fair Sugar maple 9" Good Sugar maple 9" Fair Ash 9" Foor Ash 9" Foor Ash 9" Fair Ash 9" Fair Ash 9" Poor Ash 9" Fair Ash 9" Poor Ash 9" Fair Ash 9" Fair Ash 7" Fair Ash	2672	Sugar maple	,,,	Good	
Ash 9" Poor Ash 7" Poor Ash 7" Poor Ash 12" Fair Ash 7" Poor Ash 7" Poor Ash 11" Fair Ash 8" Fair Ash 9" Poor Sugar maple 9" Fair Black cherry 6" Fair Black cherry 6" Fair Ash 9" Fair Ash 9" Fair Ash 7" Good	2673	Ash	12"	Fair	
Ash Poor Ash 7" Poor Ash 14" Good Ash 12" Fair Ash 12" Poor Ash 7" Poor Ash 8" Fair Ash 9" Poor Sugar maple 9" Fair Black cherry 6" Fair Black cherry 6" Fair Ash 9" Food Ash 7" Good Ash 7" Good Ash 7" Good Ash 7" Fair Ash 7" Fair Ash 7" Fair	2674	Ash	6,,6	Poor	Broken ton/vines
Ash 7" Poor Sugar maple 14" Good Ash 12" Fair Ash 7" Poor Ash 7" Poor Ash 11" Fair Ash 9" Fair Black cherry 6" Fair Black cherry 6" Fair Black cherry 6" Fair Ash 9" Good Ash 7" Good Ash 7" Good Ash 7" Good Ash 7" Fair Ash 7" Fair Ash 7" Fair Ash 7" Fair	2675	Ash	.6	Poor	Broken ton/vince
Ash 9°° Poor Sugar maple 14°° Good Ash 12°° Poor Ash 7°° Poor Ash 11°° Fair Ash 9°° Fair Black cherry 6°° Fair Black cherry 6°° Fair Black cherry 8°° Good Sugar maple 10°° Good Sugar maple 10°° Good Ash 7°° Fair Ash 7°° Poor Ash 9°° Fair Ash 9°° Fair Ash 7°° Fair Ash 7°° Fair	2676	Ash	7"	Poor	Fallen Oxfor
Sugar maple 14" Good Ash 12" Fair Ash 7" Poor Ash 8" Fair Ash 9" Fair Black cherry 6" Fair Black cherry 6" Fair Black cherry 6" Fair Sugar maple 9" Fair Ash 9" Fair Ash 7" Good Ash 9" Fair Ash 9" Poor Crabapple 7" Fair	2677	Ash	په	Poor	Vines
Ash 12" Fair Ash 7" Poor Ash 11" Fair Ash 8" Fair Ash 9" Poor Sugar maple 9" Fair Black cherry 6" Fair Black cherry 6" Fair Sugar maple 10" Good Ash 7" Good Ash 7" Good Ash 9" Fair Crabapple 7" Fair	2678	Sugar maple	14"	Good	
Ash 12" Poor Ash 7" Poor Ash 8" Fair Ash 9" Poor Sugar maple 9" Fair Black cherry 6" Fair Black cherry 6" Fair Sugar maple 10" Good Ash 9" Fair Ash 7" Good Ash 9" Fair Crabapple 7" Fair Crabapple 7" Fair	2679	Ash	12"	Fair	
Ash 7" Poor Ash 8" Fair Ash 9" Poor Sugar maple 9" Fair Black cherry 6" Fair Black cherry 6" Fair Sugar maple 10" Good Ash 9" Fair Ash 7" Good Ash 9" Poor Crabapple 7" Fair Crabapple 7" Fair	2680	Ash	12"	Poor	Vinac
Ash 11" Fair Ash 8" Fair Sugar maple 9" Poor Black cherry 6" Fair Black cherry 8" Good Sugar maple 10" Good Ash 7" Good Ash 7" Good Ash 9" Fair Crabapple 7" Good Crabapple 7" Fair	2681	Ash	7"	Poor	Vines/Jeaning tree
Ash 8" Fair Ash 9" Poor Sugar maple 9" Fair Black cherry 6" Fair Black cherry 8" Good Sugar maple 10" Good Ash 9" Fair Ash 7" Good Ash 9" Poor Crabapple 7" Fair	2682	Ash	112	Fair	on Summer court
Ash 9° Poor Sugar maple 9° Fair Black cherry 8° Good Sugar maple 10° Good Ash 9° Fair Ash 7° Good Ash 9° Fair Crabapple 7° Fair Crabapple 7° Fair	2683	Ash	8	Fair	
Sugar maple 9" Fair Black cherry 6" Fair Black cherry 8" Good Sugar maple 10" Good Ash 9" Fair Ash 7" Good Ash 9" Poor Crabapple 7" Fair	2684	Ash	6	Poor	Broken ton
Black cherry 6" Black cherry 8" Sugar maple 10" Ash 9" Ash 7" Ash 9" Crabapple 7"	2685	Sugar maple	93.	Fair	
Black cherry 8" Sugar maple 10" Ash 9" Ash 7" Crabapple 7"	2686	Black cherry	6	Fair	
Sugar maple 10" Ash 9" Ash 7" Ash 9" Crabapple 7"	2687	Black cherry		Good	
Ash 9" Ash 7" Ash 9" Crabapple 7"	2688	Sugar maple	01	Good	
Ash 7" Crabapple 7"	2689	Ash	6	Fair	
Ash 9" Crabapple 7"	2690	Ash	7"	Good	
Crabapple 7"	2691	Ash	6	Poor	
	2692	Crabapple	7"	Fair	

15.7 9.7 14.7 10.7 9.7 9.7 10.7 11.	SPECIES		CONDITION 2012	COMMENTS
aple 9" Poor aple 6" Fair 14" Poor 10" Good aple 9" Poor 10" Poor 9" Poor 9" Poor 9" Fair aple 6" Fair 10" Poor aple 7" Good 11" Good aple 7" Good 15" Poor aple 7" Poor 15" Poor aple 7" Good 15" Poor aple 7" Poor 15" Poor aple 7" Poor 15" Fair aple 10" Good 17" Fair 400d Good 5" Fair 6" Fair 6" Fair <t< td=""><td></td><td>15"</td><td>Fair</td><td></td></t<>		15"	Fair	
taple 9" Poor 14" Poor 10" Good 10" Good 10" Poor 10" Poor 10" Poor 9" Poor aple 8" Fair aple 7" Good aple 7" Good aple 9" Good 11" Good aple 9" Good 17" Poor aple 10" Good 17" Poor aple 9" Fair 17" Fair aple 10" Good 17" Fair aple 10" Good 11" Fair aple 11" Good 11" Fair aple 11" Fair		9"	Poor	Fallen over
taple 6" Fair 14" Poor 10" Good 9" Poor 9" Poor 9" Poor 9" Poor 9" Fair aple 6" Fair aple 7" Good aple 9" Good 10" Good Poor aple 7" Good 15" Poor Poor aple 10" Good 17" Poor aple 10" Good 17" Poor aple 10" Good 11" Fair erry 11" Poor		92,	Poor	Vines
aple 14" Poor 10" Good 9" Poor 9" Poor 9" Poor 9" Poor 9" Poor 9" Fair aple 9" Fair aple 6" Fair 10" Poor Poor aple 9" Good 15" Poor Poor aple 7" Good 15" Poor Poor aple 10" Good 17" Fair Poor aple 10" Good 11" Fair Poor aple 11" Fair erry 12" Poor	ır maple	.9	Fair	
apple 10" Good apple 11" Fair 9" Poor 8" Poor 9" Poor 9" Poor 9" Fair apple 8" Fair apple 6" Fair 10" Poor Poor aple 9" Good 15" Poor Poor aple 7" Good 15" Poor Poor aple 10" Good 17" Fair Poor aple 17" Fair erry 11" Good 40" Fair Poor		14"	Poor	Vines
taple 11" Fair 9" Poor 8" Poor 9" Poor 9" Poor aple 8" Fair aple 9" Fair aple 7" Good aple 9" Good 10" Poor aple 9" Good 15" Poor aple 10" Good 15" Poor aple 10" Good 15" Fair aple 10" Good 11" Fair 6mv Fair	cory	10,,	Good	
9° Poor 10° Poor 8° Poor 9° Poor 9° Poor aple 8° Fair aple 6° Fair aple 7° Good aple 7° Good aple 9° Good 11° Good aple 15° Poor aple 10° Good 15° Poor aple 17° Fair 9° Fair erry 11° Good 11° Good 11° Good 11° Fair erry 11° Fair	ır maple	11,,	Fair	Vines
10" Poor 8" Poor 9" Poor 9" Poor aple 8" Fair aple 6" Fair aple 7" Good aple 9" Good aple 9" Good 10" Poor aple 10" Good 17" Poor aple 10" Good 17" Fair aple 10" Good 17" Fair aple 11" Fair erry 11" Fair		6.6	Poor	Vines
8" Poor 9" Poor 9" Poor aple 8" Fair aple 9" Fair aple 7" Good aple 7" Good aple 9" Good aple 9" Good 10" Good aple 10" Good 17" Fair aple 17" Fair 17" Fair aple 11" Good 11" Fair aple 11" Fair		.01	Poor	Fallen over
9" Poor g" Foor aple 8" Fair aple 6" Fair aple 7" Good aple 9" Good aple 9" Good aple 9" Good aple 7" Poor aple 10" Good aple 17" Fair aple 17" Fair aple 11" Good 11" Good 11" Fair aple 11" Fair aple 11" Foor		8,,	Poor	Vines
aple 8" Fair aple 8" Fair aple 6" Fair aple 7" Good aple 9" Good aple 9" Good aple 10" Good 11" Fair aple 11" Fair aple 11" Fair aple 11" Fair		.66	Poor	Vines
aple 8" Fair aple 9" Fair aple 6" Fair aple 7" Good aple 9" Good aple 9" Good aple 10" Good aple 10" Good aple 10" Good 17" Fair aple 11" Fair		92	Poor	Vines/hroken toop
aple 8" Fair aple 9" Fair aple 6" Fair aple 7" Good 10" Poor aple 7" Good 15" Poor aple 17" Fair 17" Fair aple 17" Fair 11" Good 11" Fair aple 11" Fair aple 11" Foor		 &	Fair	
aple 8" Fair aple 6" Fair aple 7" Good aple 7" Good aple 9" Good aple 7" Poor aple 10" Good aple 10" Good aple 17" Fair aple 11" Good 11" Fair aple 11" Good 11" Fair aple 11" Fair	ing			
aple 9" Fair aple 32" Poor aple 7" Good 10" Poor 11" Good aple 9" Good aple 10" Good aple 10" Good aple 10" Good aple 17" Fair aple 11" Good aple 11" Good aple 11" Fair aple 11" Foor	ır maple	8,,	Fair	Damaged hy machine diaming test holos
aple 6" Fair aple 7" Good 10" Poor 11" Good aple 9" Good aple 15" Poor aple 17" Fair aple 17" Fair aple 11" Good aple 11" Fair aple 11" Fair aple 11" Fair aple 11" Fair	r maple	6	Fair	THE THE THE THE TABLE TO THE THE TABLE TO TH
aple 7" Good 10" Poor 11" Good aple 9" Good aple 10" Good aple 10" Good aple 10" Good aple 17" Fair aple 11" Good aple 11" Fair aple 11" Fair aple 11" Fair	u maple	6.,	Fair	
aple 7" Good 10" Poor 11" Good aple 9" Good aple 15" Poor aple 10" Good 13" Fair aple 11" Good aple 11" Good 11" Fair 6mry Poor 17" Poor 11" Fair 17" Poor	ory	32"	Poor	Vines/broken leader
aple Poor aple 9" Good aple 9" Good aple 7" Poor aple 10" Good 17" Fair aple 11" Good aple 11" Fair aple 11" Fair aple 11" Fair aple 11" Fair	ır maple	723	Good	TO DOOR AND A SECOND
aple 9" Good aple 9" Good aple 7" Poor aple 10" Good 13" Fair aple 11" Good aple 11" Good 11" Fair 11" Fair 11" Fair 11" Fair		10"	Poor	Vines
aple 7" Good aple 15" Poor aple 10" Good aple 17" Fair aple 17" Fair aple 11" Good aple 11" Fair aple 11" Fair aple 11" Fair aple 11" Fair		1122	Good	
aple 9" Good aple 7" Poor aple 10" Good 13" Fair aple 11" Good 11" Fair 6mry 12" Poor 17" Poor	cory	733	Good	
aple 7" Poor aple 10" Good 13" Fair aple 11" Good 11" Good 11" Fair 20" Fair 3" Fair 4" Fair 5" Fair 6" Fair 6" Fair 6" Fair 17" Foor	r maple	933	Good	
aple 7" Poor aple 10" Good 13" Fair aple 11" Good 11" Fair 11" Fair 11" Fair		15"	Poor	Vines
aple 10" Good 13" Fair 17" Fair aple 11" Good 11" Fair erry 12" Poor	ır maple	777	Poor	Vines/broken ton
aple 11" erry 17"	r maple	10"	Good	
aple 11" erry 12"		13"	Fair	
aple 11" in 11" in 12"	oak	17"	Fair	
aple 11"	ory	6	Fair	
11"	r maple	11,,	Good	
122		11,,	Fair	
71	Black cherry	12"	Poor	

			COLUMN 2016	COMMENTS
	Black cherry	12"	Poor	Vines
	Ash	13"	Poor	Vines/broken top
	Sugar maple (tagged as 1227)	14"	Fair	
	Hickory (tagged as 1228)	12"	Poor	Vines
	Hickory (tagged as 1229)	17"	Poor	Vines/broken top
	Red oak	,,6	Poor	Vines
	American beech	5"	Good	
	Sugar maple	9"	Fair	
	Sugar maple	44,,	Poor	Decay/vines
	Tulip poplar	17"	Good	
	sassafras	31"	Poor	Standing dead
	Sugar maple	.9	Good	
		63	Good	
		6,,	Good	
		12"	Good	
	Sugar maple (multi stemmed)	13/7"	Poor	Vines
		7.	Good	
		8.,	Good	
		6,,	Good	
		14"	Good	
	nulti stemmed)	5/3/7/3/2"	Fair	
		7"	Poor	Standing dead
	nulti stemmed)	5/3/3"	Poor	
	Black cherry	23"	Poor	Vines
		7"	Poor	Vines
	aulti stemmed)	.8/6	Fair	
	Crabapple (multi stemmed)	5/3/3/2"	Poor	
	Crabapple (multi stemmed)	7/5/4"	Poor	
	Sugar maple	6,,	Fair	
	emmed)	12/13"	Good	
-	ar maple	9	Good	
	Elm	9	Poor	

TREE#	SPECIES	DBH	CONDITION 2012	COMMENTS
2757	Black cherry	6	Poor	Insects
2758	Crabapple (multi stemmed)	/9	Poor	Vines
2759	Crabapple	7"	Good	
2760	Red Maple	18"	Fair	
2761	Red Maple (multi stemmed)	2/3/10"	Poor	
2762	Red Maple (multi stemmed)	9/19"	Good	
2763	Red Maple (multi stemmed)	9/3"	Good	
2764	Red Maple (multi stemmed)	14/6"	Good	
2765	Red Maple (multi stemmed)	12/10/5"	Fair	
2766	Ash	6,,	Poor	Vines
2767	Red Maple	17"	Good	
2768	Red Maple	12"	Good	CT CALL MANAGEMENT AND A COMPANY
2769	Red Maple (multi stemmed)	.9/91	Poor	Vines
2770	Black cherry	8"	Poor	Broken branches
2771	Red Maple (multi stemmed)	17/4/2"	Good	
2772	Sugar maple	8,,	Good	
2773	Sugar maple	6,,	Good	
2774	Sugar maple	% <u>;</u>	Good	
2775	Sugar maple (multi stemmed)	9/8	Good	
2776	Ash	15"	Poor	Standing dead
2777	Sugar maple	6,,	Good	
2778	Sugar maple	9"	Good	
2779	Sugar maple (multi stemmed)	8/9	Good	
2780	Sugar maple	5"	Good	
2781	Sugar maple	6"	Good	
2782	Sugar maple	7:,	Good	
2783	Sugar maple	8,,	Good	
2784	Sugar maple	.9	Good	
2785	Sugar maple	12"	Good	
2786	Sugar maple	9,,	Good	
2787	Sugar maple	8,,	Fair	
2788	Sugar maple	8;,	Good	

TREE#	SPECIES	DBH	CONDITION 2012	COMMENTS
2789	Sugar maple	14"	Fair	Barb wire grown over
2790	Sugar maple	10,,	Good	
2791	Ash	31"	Poor	Standing dead
2792	Sugar maple	19"	Fair	Broken limb
2793	Sugar maple	10,,	Good	
2794	Sugar maple	6"	Good	
2795	Red maple	10"	Good	
2796	Sugar maple (multi stemmed)	16/7"	Good	
2797	Red maple	6.6	Good	
2798	Red maple	14"	Poor	Standing dead
2799	Sugar maple	13"	Good	200
2800	Red maple	18"	Good	
2801	Sugar maple	13"	Good	
2802	Sugar maple	6	Good	
2803	Sugar maple	12"	Good	CALL THE CAL
2804		9.,	Fair	
2805	aple	%	Good	
2806		%	Good	
2807	Sugar maple	533	Good	
2808	Sugar maple	16"	Good	
2809	Sugar maple	6,,	Fair	Broken ton
2810	Sugar maple	5"	Poor	Vines
2811	Sugar maple	11"	Poor	Vines
2812	Red maple	14"	Fair	
2813		7"	Good	
2814		.,6	Good	
2815	Red maple (multi stemmed)	13/3/3"	Poor	Vines
2816	Red maple (multi stemmed)	13/4/3"	Fair	
2817	Red maple	.91	Poor	Vines
2818	Red maple (multi stemmed)	11/11;	Poor	Vines
2819	Red maple	16"	Good	
2820	(1320)	16"	Fair	

TREE#	SPECIES	DBH	CONDITION 2012	COMMENTS
2821	(1321) Red maple (multi stemmed)	.9/6/01/91	Poor	Vines
2822	(1322) Red maple (multi stemmed)	13/15	Good	
2823	(1323) Red maple (multi stemmed)	9/9/01	Poor	Vines
2824	(1324) Red maple (multi stemmed)	8/9/16	Good	
2825	(1325) Red maple	13	Good	
2826	(1326) Elm	6	Poor	Standing dead
2827	(1327) Crabapple (multi stemmed)	3/7/5/4/6"	Good	
2828	(1328) Sugar maple	9	Fair	
2829	(1329) Sugar maple	7	Poor	Vines
2830	(1330) sugar maple	9	Fair	
2831	(1331) Red maple	12	Fair	Vines
2832	(1332) Red maple	9	Poor	Vines
2833	(1333) Sugar maple	10	Fair	
2834	Red oak	16	Poor	Dead branches/vines
2835	Hickory	6	Fair	
2836	Red maple	12	Good	
2837	Crabapple	10		
2838	Carpinus caroliniana	4		
2839	Sugar maple		Good	
2840	Red maple	10	Poor	Broken tops/vines
2841	Sugar maple	9	Good	
2842	Red maple	7	Poor	Vines
2843	Red maple (multi stemmed)	14/6/5/3	Poor	Broken tops/vines
2844	Red maple (multi stemmed)	24/21	Fair	Y
2845	Red maple	7	Good	
2846	Red maple (multi stemmed)	10/17/12	Fair	
2847	Red maple	8	Good	
2848	Red maple	13	Good	
2849	Red maple	15/9	Good	
2850	Red maple	9/10	Good	
2851	Red maple	13	Good	
2852	Red maple	17/25	Fair	Slight decay

TREE#	# SPECIES	DBH	CONDITION 2012	COMMENTS
2853	Red oak	15"	Fair	vines
2854	Sugar maple (multi stemmed)	14/4"	Good	
2855	Red maple	10,,	Good	
2856	Red maple	15"	Poor	Decay/broken top (tagged as 2884)
2857	Red maple	8,,	Good	
2858	Red maple	11,,	Good	
2859	Red maple (multi stemmed)	14/9"	Good	
2860	Tulip poplar (multi stemmed)	20/23"	Good	
2861	Red maple	6,,	Good	
2862	Red maple	%	Good	
2863	Red maple	13"	Good	
2864	Red maple	15"	Good	
2865	Red maple	733	Good	
2866	Sugar maple	93,	Fair	
2867	Red maple	16"	Good	
2868	Red maple	7);	Good	
2869	Red maple	14"	Good	
2870	Red maple	12"	Good	
2871	Red maple	10.,	Good	
2872	Red maple	8;,	Good	
2873	Black birch	17"	Good	
2874	Red oak	17"	Good	
2875	Red oak	20"	Good	
2876	Red oak	77	Good	
2877	Red maple	17"	Good	
2878	Sugar maple	8,,	Good	
2879	Sugar maple	<u>%</u>	Good	
2880	Red oak (multi stemmed)	23/16"	Good	
2881	Red maple	92	Good	
2882	Red maple	8	Good	
2883	Red maple	8**	Good	
2884	Red maple	15"	Poor	Decay/broken top (tagged as 2856)

COMMENTS												ton	4				Poor form/decay	r dead											r dead	' dead		
												Broken ton					Poor for	Standing dead											Standing dead	Standing dead		
CONDITION 2012	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Good	Poor		Fair	Good	Good	Poor	Poor	Good	Good	Good	Good	Good	Good	Good	Fair	Fair	Fair	Poor	Poor	Good	Good
DBH	20"	6,,	21"	5,,	11,2	77.	19"	11"	7"	5,,	5"	63		6"	5,,	16"	6	6"	8,,	12"	10"	7"	01	8,,	1135	7,,	7"	10"	6	7	16"	11"
SPECIES	Red maple	Sugar maple	Red oak	Red maple	Red maple	Red maple	Black walnut	Sugar maple	Missing	Sugar maple	Sugar maple	Sugar maple	Sugar maple	Black walnut	Sugar maple	Black walnut	Sugar maple	Ash	Ash	Red maple	Sugar maple	Sugar maple										
TREE#	2885	2886	2887	2888	2889	2890	2891	2892	2893	2894	2895	2896	2897	2898	2899									2908								2916

TREE#	SPECIES	DBH	CONDITION 2012	COMMENTS
2917	Sugar maple	13"	Poor	Dead branches
2918	Sugar maple	11,,	Good	
2919	Sugar maple	8	Good	
2920	Sugar maple	5,,	Good	
2921	Sugar maple (multi stemmed)	5/8/2"	Good	
2922	Norway maple	14"	Fair	
2923	Hickory	8,,		
2924	Sugar maple	5"		
2925	Sugar maple	6,,		
2926	Sugar maple	21"		
2927				
2928				
2929				
2930				
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2933				
2934				
2935				
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2946				
2947				
2948				

COMMENTS								The state of the s									
CONDITION 2012										100							
DBH									-								
SPECIES												-					
TREE#																	



SCIENTIFIC TREE CARE SINCE 1907

iles Planning Board
...... Town Board
...... Zoning Board

Legal Dept.

2240 SAW MILL RIVER ROAD ELMSFORD, NY 10523 (914) 592-4520 (914) 592-5068(FAX)DOTS Director

Applicant

Comin Engineering

.... A.R.C.

July 5th, 2019

Town of Cortlandt Attn: Chris Kehoe 1 Heady Street Cortlandt Manor, NY 10547

Re: Hanover Farm Solar Panels

JUL - 8 2019

P. 2019-11

DEPT. OF TECHNICAL SERVICES
PLANNING DIVISION

Sent 7/4/19

Dear Mr. Kehoe,

I inspected the property at the Hanover Estates site in relation to proposed solar project. The entire site was inventoried and all trees were tagged in 2012 as part of an overall site inspection. The purpose for the inspection at this time was to assess the areas impacted by the new proposal for a solar project and determine what the impact on the trees, in the "yellow area" shown on the drawing, would be.

- The were no "protected species" according to the town code.
- There were no specimen trees or groups of trees in this area.
- I identified the tree species and size of the trees that fell within the limits of disturbance according to the drawing provided to me on the site.
- The understory is nonexistent and there were no small trees or shrubs in this area.
- There were a total on 147 trees in the area.
 - 22 trees were dead or in poor condition.
 - 48 of the total trees were Black Locust which are not highly desirable.
 - There were 5 White Ash but they were all dead or dving.
 - The largest species, by number, were Sugar Maple with a total of 83 trees and of those, 54 were trees with a 12" DBH or less.
 - There is one very large and decent Red Oak (#1800) but it has a lean and some decay and so would not be a specimen tree.

The site had to have been cleared in the not too distant past with 131 of the 147 trees being either a Black locust or a Sugar Maple and more than a third of the total trees are Sugar Maples under 12" DBH.

There area is on a slope and so protecting the trees lower down the hill from having excess soil erode down would be one consideration to protect adjacent trees. I only inspected trees in the "yellow area" shown on the drawing that was provided.

Let me know any questions.

Thanks

Trevor Hall ISA Certified Arborist PD 0269 NYSDEC C3809904

T. Hall Inventory 7/1/19 Hanover

				over															And the second s														
				Tag							eran a dan dan dan dan dan dan dan dan dan				Fallen										The second desirable and desir					The same of the sa			
Good	Dead	Good	Good	Good	Fair	Fair	Good	Poor	Fair	Good	Good	Fair	Poor	Good	Dead	Good	Good	Fair	Good	Good	Fair	Fair		Fair	Fair	Fair	Fair	Good	Fair	Good	Good	Good	Fair
20"	7"	7"	₀	÷	11"	12"	12"	9	11"	8"	11"	 8	14"	10"	12"	7"	7"	6	 	14"	16"	9		8	12"	16"	14"		11"	8	5"	11"	10"
Sugar Maple	Black Locust	Sugar Maple	Sugar Maple	Sugar Maple	Black Locust	Black Locust	Sugar Maple	Black Locust	Black Locust	Sugar Maple	Black Locust	Sugar Maple	Black Locust	Sugar Maple	Black Locust	Sugar Maple	Sugar Maple	Black Locust	Sugar Maple	Sugar Maple	Black Locust	Black Locust		Black Locust	Black Locust	Black Locust	Black Locust	Sugar Maple	Black Locust	Sugar Maple	Sugar Maple	Sugar Maple	Black Locust
1593	1592	1591	1584	1585	1497	1498	1499	1500	1501	1583	1580	1581	1582	1579	1603	1604	1575	1574	1573	1572	1571	1570	1569	1578	1577	1576	1605	1606	1704	1607	1608	1700	1701

				Uprooted	Fallen	Damaged													Damaged														
Good	Fair	Fair	Good	Poor	Dead	Poor	Good	Good	Fair	Good	Fair	Fair	Dead	Good	Good	Good	Good	Fair	Dead	Good	Fair	Fair	Fair	Good	Fair	Fair	Good	Fair	Dead	Good	Good	Fair	Fair
8	 8	14"	6	15"	12"	15"	11"	23"	15"	9	9"	6	5"	13"	8	19"	5"	18"	5"	8	11"	10"	14"	.6	12"	14"	8	13"	9	7"	8"	18"	11"
Sugar Maple	Black Locust	Black Locust	Sugar Maple	Black Locust	Black Locust	Black Locust	Red Maple	Red Maple	Black Locust	Sugar Maple	Black Locust	Black Locust	Black Locust	Sugar Maple	Black Locust	Black Locust	Sugar Maple	Black Locust	Sugar Maple	Sugar Maple	Black Locust	Black Locust	Black Locust	Sugar Maple	Black Locust	Black Locust	Sugar Maple	Black Locust	Black Locust	Sugar Maple	Sugar Maple	Black Locust	Black Locust
1702	1703	1613	1614	1615	1616	1618	1617	1620	1619	1682	1625	1626	1627	1515	1512	1513	1514	1511	1510	1509	1507	1568	1569	1612	1566	1565	1564	1563	1502	1503	1505	1506	1504

Good	Dead	Good	Fair	Good	Fair	Good	Good	Fair	Good	Fair	Good	Fair	Good	Dead
10"	9	9"	12"	9"	18"	12"	5"	15"	7"	14"	15"	18"	15"	18"
Sugar Maple	Black Locust	Sugar Maple	Black Locust	Sugar Maple	Black Locust	Sugar Maple	Sugar Maple	Black Locust	Sugar Maple	Black Locust	Sugar Maple	Black Locust	Sugar Maple	Black Cherry
1507	1508	1552	1553	1551	1550	1549	1559	1558	1554	1555	1556	1557	1495	1490

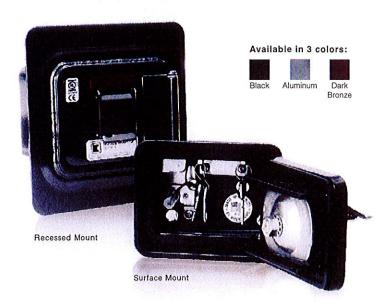
APPENDIX C

- KNOXBOX SPECIFICATIONS
 - KNOXBOX 3200 SURFACE MOUNTED HIGH-SECURITY KEY LOCK BOX





The KnoxBox 3200 is the number one high-security key lock box trusted by first responders and property owners. Store up to 10 keys to quickly gain rapid access to commercial properties.

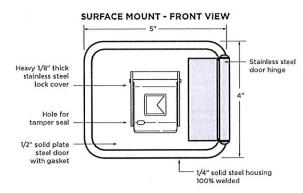


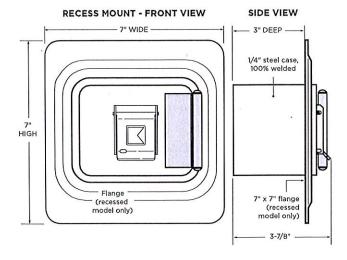
WEIGHT:

Surface Mount - 8 lbs Recessed Mount - 9 lbs

DIMENSIONS:

Surface Mount Body - 4"H x 5"W x 3-7/8"D Recessed Mount Flange - 7"H x 7"W





- ✓ Stores maximum 10 keys. Access cards and small entry items may also fit in interior compartment but will reduce max key quantity.
- → Built Knox-Rugged and secure: UL 1037, UL 1610, UL 1332, UL 437
- → Finished with Knox-Coat® to protect four times better than standard powder coat
- ✓ Weather-resistant door gasket
- ✓ Hinged door

BENEFITS

- ✓ Allows rapid property access
- Reduces property damage
- Prevents forced entry into buildings
- Minimizes first responder injury
- ✓ Compliant to National Fire Code (NFPA, IFC, IBC)

OPTIONS

- Knox Tamper Alert connects to building's alarm system for extra security
- ✓ Mount types: Recessed and Surface
- ✓ 3 color options: Black, Aluminum, Dark Bronze

ACCESSORIES

- Multi-Purpose Switch for use on electrical doors, gates and other electrical equipment
- Public Safety Labels
- ✓ Tag-Out Tamper Seals
- ✓ Key Tags
- ✓ Key Rings

ORDERING SPECIFICATIONS

To insure procurement and delivery of the KnoxBox 3200, it is suggested that following specification paragraph is used:

KnoxBox surface/recessed mount with hinged door, with/without UL Listed Knox Tamper Alert. 1/4" plate steel housing, 1/2" thick steel door with interior gasket seal and stainless steel door hinge. Box and lock UL Listed. Lock has 1/8" thick stainless steel dust cover with tamper seal mounting capability.

Exterior Dimensions: Surface Mount Body - 4"H x 5"W x 3-7/8"D Recessed Mount Flange - 7"H x 7"W

Lock: UL Listed. Double-action rotating tumblers and hardened steel pins accessed by a biased cut key.

Finish: Knox-Coat proprietary finishing process

Color: Black, Dark Bronze or Aluminum

P/N: KnoxBox 3200 (mfr's cat. ID) Mfr's Name: KNOX COMPANY



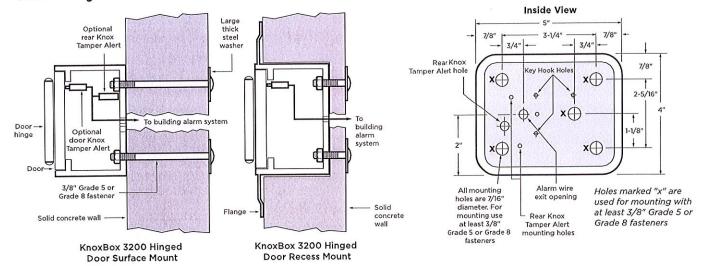


KNOXBOX[®] 3200

GENERAL MOUNTING INSTRUCTIONS

Suggested minimum mounting height, 6 feet above ground.

ATTENTION: KnoxBox is a very strong device that MUST be mounted properly to ensure maximum security and resist physical attack.

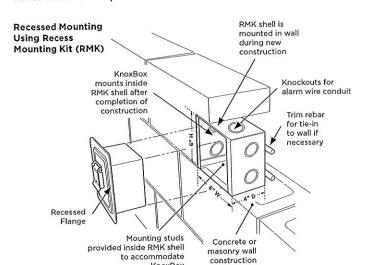


RECESS MOUNTING KIT AND INSTALLATION INSTRUCTIONS

The Recess Mounting Kit (RMK) includes shell housing and mounting hardware, which may only be used for recessed models to cast-in-place within new concrete or masonry construction. The KnoxBox is mounted into the shell housing after construction is completed.

RECESS MOUNTING KIT DIMENSIONS

Rough-in Dimensions: 6-1/2"H x 6-1/2"W x 5"D



IMPORTANT:

Care should be taken to ensure the front of the Recess Mounting Kit (RMK) shell housing, including the cover plate and screw heads, is flush with the wall. The RMK must be plumbed to ensure vertical alignment of the box.

ABOUT KNOX COMPANY

Over forty years ago, a unique concept in rapid access for emergency response was born. The KnoxBox®, a high-security key lock box, was designed to provide rapid access for emergency responders to reduce response times, minimize injuries and protect property from forced entry.

Today, one revolutionary lock box has grown into a complete system providing rapid access for public safety agencies, industries, military, and property owners across the world. The Knox Company is trusted by over 14,000 fire departments, law enforcement agencies, and governmental entities.

KNOX COMPANY

1601 W. DEER VALLEY RD PHOENIX, AZ 85027

T. 800.552.5669

F. 623.687.2290

KNOXBOX.COM

INFO@KNOXBOX.COM

APPENDIX D

- BIODIVERSITY AND NATURAL RESOURCE ASSESSMENT
 - O PREPARED BY STEPHEN W. COLEMAN ENVIRONMENTAL CONSULTING, LLC AND DATED DECEMBER 2011 AS PART OF THE HANOVER ESTATES PROPOSED SUBDIVISION APPLICATION PACKAGE

HANOVER ESTATES PROPOSED SUBDIVISION BIODIVERSITY AND NATURAL RESOURCE ASSESSMENT



Prepared for:



The Town of Cortlandt Planning Board

Prepared by:

Stephen W. Coleman Environmental Consulting LLC 3 Aspen Court Ossining, New York 10562

December 2011

Copies.
Flanning Board
· · · · · · Town Board
· · · · · Zoning Board
···· Legal Dept.
· · · · DOTS Direct
•••• C.A.C.
Applicant
Im Conn
Sent 1/5/12

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Project Author:

Stephen W. Coleman Environmental Consulting, LLC 3 Aspen Court Ossining, New York 10562 (914) 494-5544, Fax (914) 762-5260 email steve.coleman8@verizon.net

I. Introduction

The environmental consulting firm of Stephen W. Coleman Environmental Consulting, LLC., has been retained by the Town of Cortlandt Planning Board to conduct a Biodiversity and Natural Resource Assessment of the Proposed Hanover Estates Subdivision located off of Croton Avenue, in the Town of Cortlandt, New York. The property consists of approximately 35.90 acres and includes a freshwater wetlands, meadows, abandoned fields and paddocks, existing buildings, roads and extensive lawn areas, and mixed deciduous forest with moderate and steep slopes.

As outlined in the project's scope, the natural resource inventory surveyed the following target biological groups including mammals, breeding birds, amphibians, reptiles and plant groups including trees, shrubs, wildflowers, grasses and grass-like plants. Special emphasis was placed on the identification of endangered, threatened, and special concern species. Natural Heritage Data Records provided by New York State Department of Environmental Conservation were also reviewed as part of the survey. Existing vegetative communities were described, mapped, and analyzed to determine the habitat values, functions, and overall attractiveness to support environmentally sensitive species. The primary analysis, and report preparation, was carried out by Stephen W. Coleman, B.S. Wildlife Ecologist, with field support provided by Brandon M. Ruhe, M.S., Herpetologist, and Damon S. Oscarson, M.S., field ecologist. Survey work was completed during the months of May through September 2011.

II. Study Area

General Description

The 35.9 acre parcel consists of a post-agricultural use property with large long buildings and barns associated with the Croton Egg Farm. Habitats surrounding the buildings include abandoned pastures, sloping young and mature mixed deciduous woodland, manicured lawn areas, and a wetland and watercourse system. To the east the property borders lands owned by the Central School District, Apple Hill Drive and the Apple Hill Subdivision to the north, Croton Avenue to the west and south.

The forested area on the west and northwest side of the property is a sloping mixed deciduous woodland, draining steeply to the west to Croton Avenue with several flat, plateau areas. It's a moderately mature, well-drained slope with a closed canopy dominated by sugar maple (*Acer ssaccharum*). Some larger specimen trees exist throughout the forested area. This sugar maple stand has little understory with some downed trees and logs. The forest is younger as it slopes uphill to the east with black cherry trees (*Prunus serotina*) and more invasive plants such as black locust (*Robinia pseudoacacia*), Oriental bittersweet (*Celastrus orbiculatus*), mugwort (*Artemisia vulgaris*), garlic mustard (*Alliaria petiolata*), wineberry (*Rubus phoenicolasius*), and multiflora rose (*Rosa multiflora*) closer to the agricultural areas. Other species observed included white ash (*Fraxinus americana*), Japanese barberry (*Berberis*)

thunbergii), fox grape (Vitis labrusca), Jack-in-the-pulpit (Arisaema triphyllum), and Christmas fern (Polystichum acrostichoides).

Abandoned agricultural fields we observed to the west, north and northeast of the agricultural buildings. Fields were becoming overgrown with forbs and shrubs and appear to not be regularly maintained. Old cedar fences with hedgerows separate the pastures. Debris piles were located near the buildings. The fields were generally flat and sloped down to the east and southeast to a forested area. Wetland areas draining into the wetland/watercourse to the east were located in the open fields east of the northern-most building. The wetland was marshy and wet with tussock sedges (*Carex stricta*). The poor soils from fill material resulted in a disturbed situation almost exclusively dominated by mugwort and multiflora rose in all the pastures. Other species observed included goldenrod (*Solidago* sp.) and flowering dogwood (*Cornus florida*). Manicured lawns were maintained near the agricultural buildings.

The wetland on the east side of the property is fed from runoff from the hill to the northwest. Some open marshy areas start the wetland with pastures located to the east of the buildings. The wetland/watercourse is mostly wooded with disturbed open areas. A small wooded pooled area, which may function as a vernal pool, was located at the northern end of the watercourse. The wetland drains south downhill forming more of a linear watercourse. The wetland appears to have been ditched in the past.

Species observed in the wetland/watercourse included swamp white oak (Quercus bicolor), red maple (Acer rubrum), winterberry (Ilex verticillata), elm, (Ulmus sp.), skunk cabbage (Symplocarpus foetidus), tussock sedge, highbush blueberry (Vaccinium corymbosum), sensitive fern (Onoclea sensibilis), cinnamon fern (Osmunda cinnamomea), and common reed (Phragmites australis). The forest surrounding the wetland/watercourse was a young to medium aged mixed deciduous woodland. Upland species observed included sugar maple, hickory (Carya sp.), black cherry, and tulip poplar trees.

III. Plant Communities

The Hanover Estates Property can best be described as a post agricultural habitat with remnants of old fields, abandoned paddocks, and young to mature remnants of a deciduous upland successional forest. Within this upland complex of mixed deciduous forest is a forested wetland with open water, wet meadows and shrubby thickets. These particular community types and habitats have been described in detail by the New York Natural Heritage Program; by Kiviat and Stevens in their publication titled "Biodiversity Assessment Manual for the Hudson River Estuary Corridor", 2001; and by the reference publication titled "Ecological Communities of New York State" (Reschke, 1990, revised 2002).

Several of these forested post agricultural areas tend to overlap and merge from one to another or form subsets within a broader forested community. The species identified are representative of this type of habitat and some of the species are likely to be found

only within certain types of these habitats. In general, the level of disturbance from post agricultural uses has created a mixture of habitats with clear signs of degradation and spread of well established invasive plant species. As a result, the habitats tend to be marginal and limit the attractiveness for environmentally sensitive species of wildlife to be able to utilize these altered habitats. This history of land use is typical in northern Westchester County and the corresponding lack of species richness and abundance is often attributed to the extensive changes caused by a history of intensive agricultural use. The survey was completed for the entire site and specific habitats such as the forested wetland, the mixed deciduous forest, and abandoned post agricultural fields were extensively field searched with limited success.

The results of the natural resources inventory reflect the individual species that were observed to be present on the property and the quality of the habitats reflect the level of species diversity and richness. Due to extensive land use and prior land use disturbance and alterations, the ability of the site to support environmentally sensitive species was determined to be limited. No endangered, threatened or special concern species or habitat communities were identified to be present. The results of species surveys for focal target species groups are as follows:

IV. Natural Resource Inventory

A. Breeding Bird Survey – Methods and Results

The principle survey method involved time-constrained, systematic physical ground searches along random transects throughout each of the habitat types. Unless noted, all species listed were documented through direct observation. Direct observation included visual as well as auditory observation, and evidence of avian activity such as feathers, droppings, tracks, scrapings, and bones. Surveys were conducted between sunrise and two hours after sunrise and/or one hour before and after sunset. One evening survey was completed for potential nocturnal species. All birds observed were identified and recorded to genus and species name. No birds or bird evidence observed during the investigation, were collected as voucher specimens. The breeding bird survey was conducted from 05-10-11 through 06-13-11, for a total of 12.0 hours. The analysis of the data from four consecutive weekly site visits help provide a picture of the number of potential breeding pairs throughout the study site. An individual singing male needed to be recorded a minimum of 3 times to be counted as a probable breeding pair.

A few forest interior species were observed to be present within the study area. The forest interior species were observed within the wetland complex, the transition between these habitats and the intact forested slope sections of the property. This property represents one of the few larger tracts of open land within the area, which makes it attractive for resident avian species. None of the species identified are listed as threatened or endangered in New York State. Seven (7) forest interior species were observed within the project area and include scarlet tanager, wood thrush, red-eyed vireo, ovenbird, eastern wood-pewee, black-capped chickadee, and great-horned owl

The younger second growth forested areas parallel to the wetlands complex to the east, and the edges closest to existing buildings and structures, provides a combination of essential habitats for several more common and adaptable transition and edge type bird species. Forest interior species noted above, were also observed to utilize some of these other habitat areas of the property.

A total of thirty-two (32) different bird species were observed within the general study area during the spring/summer season and represent summer resident breeding bird species. The regional complex of road networks, residential developments and prior land use practices of the subject parcel have created significant fragmentation and overall site disturbances that has reduced the attractiveness of the available habitat for breeding and rearing of young for more regional environmentally sensitive species. Thirty-two different bird species observed is considered below average for properties of this size for nesting bird populations throughout the Westchester area. Due to the fragmentation and prior land use disturbances, the number of common species observed is representative of altered habitats.

Based upon the results of the breeding bird survey, the study site's capability to support populations of rare and environmentally sensitive forest interior species has been compromised. The table below provides information on avian species that were observed as a result of the spring 2011 census.

Common Name	Scientific Name	Probable Breeding Species
Wild Turkey	Meleagris gallopavo	X
Rock Dove	Columbia livia	X
Mourning Dove	Zenaida macroura	x
Downy Woodpecker	Picoides pubescens	X
Northern Flicker	Colaptes auratus	X
American Goldfinch	Carduelis tristis	
Eastern Wood-Pewee	Contopus virens	X
Blue Jay	Cyanocitta cristata	X
American Crow	Corvus brachyrhynchos	X
Canada Goose	Branta canadensis	
Mallard	Anas platyrhynchos	X
Black-capped Chickadee		X
Tufted Titmouse	Parus bicolor	X
White-breasted Nuthatch		Х
Great horned Owl	Bubo virginianus	
Wood Thrush	Hylocichla mustelina	Х
American Robin	Turdus migratorius	X
Gray Catbird	Dumetella carolinensis	X
Red-eyed Vireo	Vireo olivaceus	X
Ovenbird	Seiurus aurocapillus	X
Yellow Warbler	Dendroica petechia	X

Common Name	Scientific Name	Probable Breeding Species
Common Yellowthroat	Geothlypis trichas	X
Scarlet Tanager	Piranga olivacea	X
Northern Cardinal	Cardinalis cardinalis	X
Chipping Sparrow	Spizella □arolina□	X
Song Sparrow	Milospiza melodia	X
Red-winged Blackbird	Agelaius phoeniceus	X
Common Grackle	Quiscalus quiscula	X
Brown-headed Cowbird	Molothrus ater	X
Northern Oriole	lcterus galbula	X
House Finch	Carpodacus mexicanus	X
House Sparrow	Passer domesticus	X

B. Amphibians and Reptiles Survey – Methods and Results

Surveys for amphibians and reptiles took place during the months of May through August. A total of 11.50 hours were spent in the field. Field work was completed by Brandon M. Ruhe, herpetologist and Stephen W. Coleman. Field inventory techniques included visual searches of downed logs, stumps, leaf litter, and rock piles to determine the presence or absence of individual species, examination of cover types, frog sounds and calls, larval sampling, and identification of egg masses. A detailed description of amphibian and reptile survey techniques can be found in Klemens (1993). A total of 10 species, (seven amphibians and three reptiles) were documented at the site. None of the species identified are listed as endangered, threatened or special concern status species. The species observed are listed in the table below.

Common Name

Scientific Name

Gray Tree Frog	Hyla versicolor
Northern Spring Peeper	Pseudocris crucifer crucifer
Northern Two-lined Salamander	Eurycea bislineata
Red-backed Salamander	Plethodon cinereus
Eastern American Toad	Bufo americanus americanus
Green Frog	Ranas clamitans melanota
Pickerel Frog	Rana palustris
Eastern Garter Snake	Thamnophis sirtalis sirtalis
Painted Turtle	Chrysemys picta
Snapping Turtle	Chelydra serpentina serpentina

C. Mammal Survey - Methods and Results

Mammals were surveyed by active ground searches looking for evidence of any animal activity. The primary survey method involved time-constrained, systematic physical ground searches along random transects throughout each of the habitat types. Unless noted, all species listed were documented through direct observation. Direct

observation included visual as well as auditory observation, and evidence of animal signs such as fur, tracks, droppings, scrapings, and bones. All animals observed were identified and recorded to genus and species name. No animals or animal evidence observed during the investigation, were collected as voucher specimens. The mammal survey was conducted from May 10th through August 13th. A total of 9.50 hours were spent in the field. Weather conditions were conducted during optimal field conditions, sunny, warm conditions with average temperature in the mid 70's F.

The mammal survey confirmed the presence of 11 different mammal species on the project site. Gray squirrels, eastern chipmunks, white-tailed deer, raccoons and deer mice were the most commonly observed mammals. Deer were especially abundant as evidenced by numerous well-worn trails, bedding areas and abundant droppings. Chipmunks and gray squirrels were most common along stonewalls and rock outcrops, throughout the forested sections, and along wetland corridors. Raccoons sign was observed primarily along the edge of the wetland. The mammal species observed within the study area are:

Common Name	Scientific Name
Virginia Opossum	Didelphis virginiana
Short-tail Shrew	Blarina brevicauda
Eastern Cottontail	Sylvilagus floridanus
Eastern Chipmunk	Tamias striatus
Woodchuck	Marmota monax
Gray Squirrel	Sciurus carolinensis
Southern Flying Squirrel	Glaucomys volans
White-footed Mouse	Peromyscus leucopus
Raccoon	Procyon lotor
Striped Skunk	Mephitis mephitis
White-tailed Deer	Odocoileus virginianus

D. Botanical Survey - Methods and Results

Vegetative survey methods involved direct field identification of plants observed within the project study area. Inventory included random linear searches throughout the project area. All plants that could be visually observed and identified were recorded. The entire study area was surveyed to observe all plants present. Plants were identified by flower type and floral structure, by plant type, and leaf shape and arrangement. Plants were identified in both flowering and non-flowering conditions. When necessary, individual plants were collected if they required laboratory verification to specific species. Plants within the genus Carex and some of the grass genera were collected and later verified to species. Individual plants were identified by common name and scientific name (genus and species), and recorded. The New York State Department of Environmental Conservation's publication "New York State Endangered, Threatened and Special Concern Species 1998, was used as the definitive list for determining whether any plants observed on the study area would be considered Endangered.

Threatened or Special Concern status. The vegetative survey was conducted from May 10th through August 13th. A total of 7.0 hours were spent in the field.

A total of 75 plant species were observed to be present throughout the study area. This represented 21 species of trees, 22 species of shrubs and vines, and 46 species of forbs (wildflowers, ferns, grasses and grass-like plants). Existing evidence of current and past land use practices within the study area, the forest composition, species diversity and plant community shows positive signs of encroachment and alteration of the habitat types present. Several invasive plant species have become established within the study area. A list of observed plant species by target group follows:

Trees:

Common Name	Scientific Name
Norway Maple Red Maple Silver Maple Sugar Maple Black Birch Ironwood Shagbark Hickory Flowering Dogwood White Ash Tulip Poplar American Beech Black Walnut Norway Spruce White Pine Black Cherry White Oak Black Oak Red Oak Black Willow Eastern Hemlock	Acer platanoides Acer rubrum Acer saccharinum Acer saccharum Betula lenta Carpinus caroliniana Carya ovata Cornus florida Fraxinus Americana Liriodendron tulipifera Fagus grandifolia Juglans nigra Picea abies Pinus strobus Prunus serotina Quercus alba Quercus velutina Quercus rubra Salix nigra Tsuga Canadensis
American Elm	Ulmus Americana

Shrubs and Vines

Common Name

Scientific Name

Japanese Barberry Berberis thunbergii Oriental bittersweet Celastrus orbiculatus Summersweet Clethra alnifolia Silky dogwood Cornus amomum

Winged Euonymus Euonymus atropurpurea

Forsythia Forsythia spp.

Witch hazel Hamamelis virginiana

Winterberry llex verticillata Spicebush Lindera penzoin

Virginia Creeper Parthenocissus quinquefolia

Brambles Rhubus spp. Poison Ivy Rhus glabra Multiflora Rose Rosa multiflora Black Raspberry Rubus occidentalis Wineberry Rubus phoenicolasias Elderberry Sambucus canadensis

Greenbrier Smilax spp.

Highbush blueberry Vaccinium corymbosum Arrowood Viburnum Viburnum dentatum

Grape Vitis spp. Common Privet Buxus spp.

Japanese Honeysuckle Lonicera japonica

Forbs (wildflowers, ferns, grasses and grass-like plants)

Common Name

Scientific Name

Garlic mustard Alliaria petiolata Ragweed Ambrosia spp.

Andropogon virginicus Broom sedge Anemone quinquefolia Wood anemone Spreading dogbane Apocynum androsaemifolium

Wild columbine Aquilegia Canadensis

Burdock Arctium minus Jack-in-the-pulpit Arisaema atrorubens White wood aster Aster divaricatus

Wood Aster Aster spp.

Common milkweed Asclepias syriaca Artemisia vulgaris Mugwort Athyrium filix-femina Lady Fern

Comosa sedge Carex comosa Laxiflora sedge Carex laxiflora

Common Name

Scientific Name

Tussock Sedge Ca
Fox Sedge Ca
Spotted knapweed Ce
Enchanter' nightshade Cir

Bull thistle

Hay-scented fern New York Fern Wood Fern

Daisy fleabane

Trout lily

Meadow fescue Wild strawberry Wild geranium Jewelweed Wild mint

Japanese stilt grass

Sensitive Fern Cinnamon Fern Royal Fern

Deer-tongue grass

Wild blue phlox

Common reed Christmas fern

False Solomon Seat Deadly nightshade Canada goldenrod

Spagnum moss Skunk cabbage

Marsh fern White clover

Red clover

Carex stricta Carex vulpinoides Centaurea maculosa Circaea quadrisulcata

Cirsium vulgare

Dennstaedtia punctilobula Dryopteris noveboracensis

Dryopteris spp. Erigeron annuus

Erythronium americanum

Fescue elatior
Fragaria virginiana
Geranium maculatum
Impatiens capensis
Mentha arvensis

Microstegium vimeneum

Onoclea sensibilis Osmunda cinnamomea

Osmunda regalis
Panicum clandestinum

Phlox divaricata

Phragmites communis Polystichum acrostichoides

Smilacina racemosa Solanum dulcamara Solidago Canadensis

Spagnum spp.

Symplocarpus foetidus Thelypteris thelypteroides

Trifolium repens Trifolium pratense

V. Biodiversity Assessment Summary

Results of the natural resource survey indicate in general a low diversity of wildlife and plant species and community types. Few environmentally sensitive species were observed to be present. Those individuals observed were recorded in low numbers. Specific habitat cover types and physical boundaries of the ecological communities present on the property are not well developed or highly disturbed due to the history of human use and land disturbance from prior agriculture and commercial functions. The buffer to the existing wetland in the eastern side of the parcel has been encroached with existing buildings, and prior landscaping. The combination of the buffer area and adjacent upland has the potential to support box turtles, however, no individuals were observed during the survey period. The impact from white tailed deer is extensive and limits overall plant diversity. Invasive plant species have become well established within the abandoned paddocks and field areas and around the perimeter of the developed areas of the property. The prior ground disturbance has reduced available habitat which restricts the diversity of amphibian and reptile species.

Despite the lower number of more environmentally sensitive indicator species, the existing wetland and wetland buffer area does still provide important roles in water quality maintenance functions, and habitat for more common resident wildlife species. The presence of gray tree frogs indicates that the wetland does provide beneficial habitat for some environmentally sensitive species. This species is attracted to more open wetlands with scrub shrub type habitat. The adjacent woodland and open meadow areas of the property appear capable of supporting box turtles, however, none were observed to be present. The open water areas of the wetland appear to be capable of supporting vernal pool species, however, extensive searches did not find any larvae or egg masses of vernal pool species. A few spring peepers were heard calling, but these may be remnant populations that move throughout the wetland complex and adjacent habitat.

The avian species represented within the target study area is on the low side for typical summer resident breeding bird species. Of this number, seven of the more common forest interior species were observed within the project area. These species usually require larger tracts of relatively mature forest canopy but have demonstrated to be more adaptable to forest fragmentation. The amount of fragmentation and surrounding land use on all sides has limited the attractiveness and use of this area by more environmentally sensitive resident forest interior breeding birds.

The mammal species observed were all common species that are widely adaptable to forest fragmentation and alteration of habitats. They utilize many of the edge areas of different habitats and as a result are less impacted by altered landscapes.

Land Use and Biodiversity Values

The pattern of land development within the subject area has reduced the attractiveness and the ability of remaining habitats to support species that are considered endangered, threatened or special concern. These species often have very specific habitat requirements that often are not met on smaller tracts of land. The adjacent developments and the existing road network have reduced the attractiveness of this area. The size of the parcel does provide an important refuge for existing and more common species of wildlife. The combination of existing wellands with a mixed age deciduous forest including steeper sloped areas does provide numerous biological benefits and roles within the regional context of water quality, open space, and overall plant and animal diversity. Despite the lack of species richness, the size of the parcel still provides important biological functions that are important in the regional context and any development needs to take these factors into consideration.

Any concentrated development of the property has the potential to result in significant and long-term impacts to existing more common resident wildlife populations. Specifically, a dense development would eliminate much of the forest habitat and successional quality of the forest. This would result in an increase in the amount of forest fragmentation, which will further reduce the attractiveness for the few forest interior bird species observed within the study area. Clearing for the proposed development will favor proliferation of more common and adaptable wildlife species.

Recommended Development Guidelines to Protect Biodiversity

In an effort to preserve the basic ecological functions provided by the subject parcel and to protect the existing wetlands, forested tracts and abandoned fields and meadows, several development guidelines should be considered as follows:

- 1. Minimize impacts to the existing Wetlands and Wetland Buffer Area
 - o The proposed development plans have established a 5.07 acre parcel that includes the majority of the wetland and wetland buffer. An added benefit of the proposed development is that existing buildings will be removed from the buffer area. To maximize protection of the wetland and wetland buffer, it may be advisable to extend the conservation area to include the wetland and buffer area located within proposed lots 6 and 7
 - The proposed subdivision plans have proposed converting a large portion of the buffer for a picnic area and a dog park. The dog park is proposed immediately adjacent to the wetlands.
 - The construction of a dog park immediately adjacent to a wetland will create additional impacts to the functions of the wetland. The increase in pet wastes will introduce additional pathogens to resident wildlife species that utilize the wetland area. The location of the proposed dog park would

be better located outside of the buffer area to the wetlands. The use of some of the buffer as a permanent picnic area and a series of pedestrian trails to be used by the adjacent school property is a less intensive use and should be compatible within the existing buffer. The wetland area could also be used as an outdoor classroom for the adjacent high school.

- Due to the existing condition of the wetland buffer, opportunities are present to restore and enhance wetland functions provided by the buffer area. Strategic placement of new plantings consisting of ground covers, and shrubs would assist with creating more functional habitat adjacent to the wetland and also serve to filter nutrients that may come from more developed areas.
- Storm water basins are proposed along the edge of the wetland buffer. It
 is assumed that overflow and the outlet to these basins would be directed
 into the adjacent wetland. The addition of new plantings to filter any water
 from the basins would assist with water quality maintenance functions.
- Removal of invasive plant species that have become established within the wetlands complex would also improve the habitat and provide more functional habitat for resident wildlife species.

2. Minimize Impacts to Wildlife Movements

- The proposed subdivision plans as presented, essentially develop 100 % of the buildable areas of the property. The subdivision will require extensive removal of existing trees and essentially eliminates any remaining habitat for resident wildlife species. Consideration should be given to reducing the density to a more reasonable level and changing the design to preserve more of the character of the remaining forested areas.
- The use of a cluster subdivision layout would provide an opportunity to preserve more open space and still allow a reasonable number of lots. This would also maximize more functional open space for promoting biodiversity.
- The proposed layout provides little connectivity of open space areas and reduces the ability of wildlife to access the wetlands to the east side of the property. A majority of resident wildlife species utilize wetland areas at some point in their life cycle. Maintaining linear corridors that connect forested areas to the wetlands would allow some access for wildlife that will remain, or that will re-occupy the site after it is developed.
- The development as proposed will result in the displacement of the majority of resident wildlife species. Some of the more adaptable species may return after the development is completed, but the majority will be displaced to other areas. Displacement of white-tail deer to adjacent properties will likely create

- additional impacts. The impact of displacement warrants further analysis to determine how to mitigate their impacts to neighboring properties.
- Establishing a permanent linear corridor (recommended width of 50-75 feet behind proposed lots 1-6 would help to maintain a forested buffer between the residences and the wetland. Consideration should be given to setting up a conservation easement and some type of permanent demarcation.
- The proposed layout results in a lot of extra site disturbance due to each lot having individual driveways. The use of shared driveways or placement of driveways together would allow opportunities to maintain larger tracts of forested areas and preserve more groupings of trees.
- o Minimal attention has been given to reduce the fragmentation or preserve specimen trees that are located throughout the forested areas of the property. The interior of the property could be designed differently to maximize the amount of open space areas that would remain and be connected to each other. This would preserve more of the structure of the remaining forest and allow more open space to be set aside that is functional and not restricted to minor strips between lots. A detailed tree survey would help to identify groupings of trees and specimen quality trees that are worthy of preservation.
- Larger lot sizes should be considered to reduce the amount of overall site disturbance. Larger lots will reduce the amount of tree clearing, required grading, and the amount of disturbance from road and driveway access.

VI. Summary

To minimize impacts on overall biodiversity and the ecological services provided by the subject parcel, any proposed plans for development of this property should conform to the carrying capacity of the landscape. The proposed layout represents a very intense development that would compromise basic ecological services provided by the parcel. Serious consideration should be given to the use of low impact development measures as noted above, plus concentrating the development on a smaller section of the property. Incorporation of the above guidelines will help preserve the biological integrity and values of the property, and maintain important open space resources of benefit to the surrounding community.

VIII. <u>Technical References</u>

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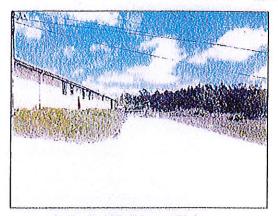
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HANOVER ESTATES PHOTOGRAPHS

5/11/11



Agricultural buildings with lawns



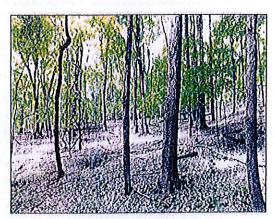
Agricultural buildings with lawns



Manicured lawns



Manicured lawns



Western woodland



Western woodland

HANOVER ESTATES PHOTOGRAPHS

5/11/11



Western woodland



Red-backed salamander



Western woodland



Western woodland

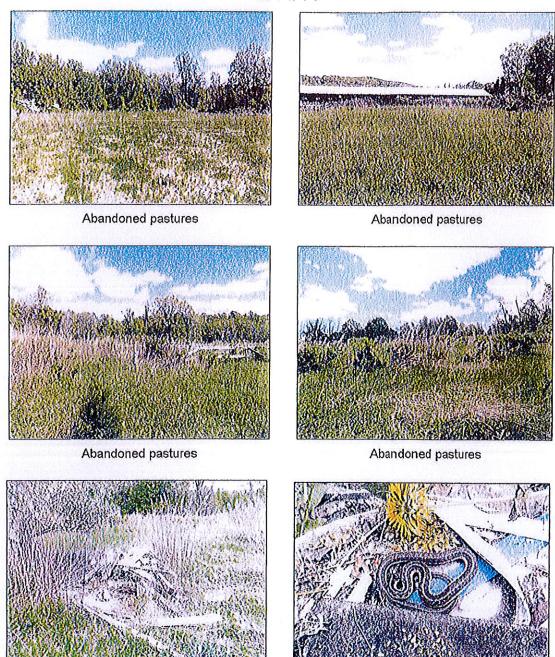


Abandoned pastures



Abandoned pastures

HANOVER ESTATES PHOTOGRAPHS 5/11/11



Debris pile near buildings

Eastern garter snaked

HANOVER ESTATES PHOTOGRAPHS

5/11/11



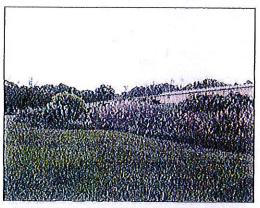
Manicured lawns near agricultural buildings



Manicured lawns near agricultural buildings



Manicured lawns near agricultural buildings



Manicured lawns near agricultural buildings

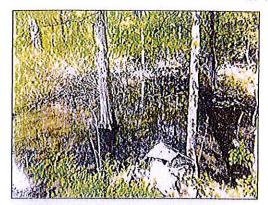


Wet meadow in abandoned pasture

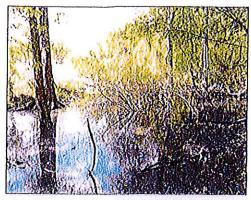


Abandoned pastures

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Vernal pool area in eastern wetland/watercourse



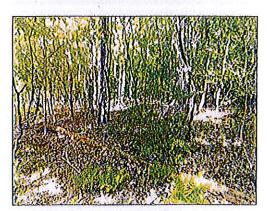
Vernal pool area in eastern wetland/watercourse



Eastern wetland/watercourse



Eastern wetland/watercourse



Woodland near wetland/watercourse



Eastern wetland/watercourse