5. Operations Plans

A. Delivery Plan

The Proposed Conditions Plan identifies the location of driveways and loading/unloading areas. All loading and unloading will occur either inside the Wood Barn (firewood) or in the LandCare Yard at least 40' from the southerly property line. (The Proposed Conditions Plan depicts the main operations area.) Incoming deliveries shall be scheduled to occur Monday – Friday between the hours of 9:00 am and 2:00 pm. A log of incoming deliveries shall be kept onsite for review by the proper permit granting authorities as needed.

A standard set of delivery directions (see attached) will be provided to all suppliers, which will provide that deliveries are to follow I-93 to Route 28 North (Randolph Ave.) to left on Hillside Street and left on Forest Street. Directions will note that Hillside Street and Chickatawbut Road from Route 138 come under the jurisdiction of DCR Road which does not allow over-sized truck traffic In conjunction with the Town of Milton Department of Public Works, street signs will be prepared and installed establishing a truck delivery route for incoming deliveries consisting of evergreens, deciduous shrubs, flowering trees, shade trees, fruit trees, perennials, herbs, annuals, vegetables, fertilizers, pottery, trellises and tree stakes, tools, sod, and bulk materials such as composts, soils, mulches, and firewood.

The plan identifies the direction of travel for all trucks operating on the site. Incoming trucks shall follow along the single driveway to the LandCare Yard that is centrally located on the Property. There will be two ways of entering the LandCare Yard. The preferred entrance will be on the westerly side of the Wood Barn in front of the bulk material bins that is located about 37' feet from the southerly property line. The second entrance is located around the rear of the Wood Barn which is located about 15' feet from the southerly property line. Incoming deliveries shall pull into the LandCare Yard and shall be unloaded at least 40' feet from the lot line. Nursery Stock will be offloaded and will be prepared for planting in the appropriate field, Bulk Materials will be offloaded in the appropriate bin and other products will be offloaded and will be appropriately stored. Firewood delivery trucks shall drive past the Wood Barn and then back into the barn so that wood can be unloaded within. Upon completion of delivery, the delivery truck will pull out back onto the main driveway and exit the Property.

Thayer proposes the following measures:

1. It will provide each supplier with the time of day restrictions on deliveries and a map specifying a single route in and out of the Nursery from Route I-93. That Route will take trucks from I-93 to Route 28 (Randolph Ave.) northbound to left turn onto Hillside Street to left turn onto Forest Street and left turn into the Nursery. This will also for the widest turn possible from Hillside onto Forest and into the Nursery to avoid damage to the shoulders of both roadways.
2. It will install hard pack along the westerly side of Forest and the Northerly sideline of Hillside in the area where these turns are made, in order to prevent rutting and other damage.

3. It will prepare and install a set of roadway signs for installation by the Milton Department of Public Works. Signs will restrict truck deliveries from entering Forest Street from Chickatawbut Road and will restrict trucks from standing/idling on Hillside and Forest Streets and Parkwood Drive.
4. It will maintain a log of all deliveries made to the Site on a weekly basis.

Thayer Nursery
270 Hillside Street
Milton, Mass. 02186
617-698-2005

Information for Incoming Deliveries

Receiving Hours:
Monday – Friday: 9:00am – 2:00pm

Dumpster Hours:
Monday – Friday: 10:00am – 2:00pm

Delivery Directions:
From 128/93N/93S:

- Exit 5B, Milton/Rte 28N.
- Follow 28N for 2 miles going thru 1 light.
- At 2nd light take left onto Hillside Street.
- We are number 270 Hillside Street.
- Our entrance is actually 2nd left which is Forest Street.
- Pull past the Wood Barn and back into the receiving area of the LandCare Yard.

NOTES:

- Do NOT Follow GPS Directions.
- Hillside Street and Chickatawbut Road access from Route 138 is NOT allowed. They come under the jurisdiction of Department of Conservation and Recreation (DCR) which does not allow over-sized truck traffic
- Parking/idling on Hillside and Forest Streets and Parkwood Drive is NOT allowed.

Nursery Contact Numbers:
617-698-2005 ext 1 Nursery
774-259-5555 Josh
774-259-5554 Maggie

B. On-Site Operations Plan

Landscape Business Use equipment will be operated on Weekdays between the hours of 7:00 am and 6:00 pm, and on Saturdays from 8:00 am to 5:00 pm, and on Sundays from 10:00 am and 3:00 pm. With respect to any use of equipment and deliveries made outside these hours, the operators shall maintain a log stating the type and time of delivery and the reason why it was made out-of-hours.

Loading and/or off-loading of trucks and equipment for Landscaping Business Use shall be concentrated to occur in the LandCare Yard. There is a driveway between the rear of the shed that is attached to the Wood Barn and the fence that is proposed to be installed 15' from the southerly lot line. Loading and unloading shall take place within the LandCare Yard, at least 40' from the southerly lot line. To the extent possible, backup alarms on bobcats and loaders that are used to fill the trucks will be deactivated, or set at the lowest sound level possible. Equipment will be turned off when not being operated. In addition, firewood delivery trucks will be lined with ¾" thick rubber matting of the type found in hockey rinks and gym weight rooms (see description of matting attached). The matting will serve to muffle the noise of initial loads being placed in the trucks, as well as protect the dump beds from damage caused by such loads. At the close of business each day, trucks will be parked on the easterly side of the Wood Barn.

Seasonal equipment may be stored off-season on-site so long as storage is orderly and space efficient. The LandCare Yard shall be buffered by the Wood Barn, the sound attenuated fence and evergreens located along the southerly side of the property.

Thayer proposes the following measures:

1. Either deactivate or turn backup alarms to lowest allowable levels.
2. Equipment will be turned off when not in use.
3. Firewood delivery trucks shall be lined with matting.

SPORTFLOOR®
PERFORMANCE RUBBER FLOORING

Technical Data Sheet: Stamina

Stamina

100% recycled vulcanized flooring that can be adhered, loose laid, or interlocked. The non-porous surface makes it an ideal flooring product for use in hockey arenas, free weight/fitness facilities or anywhere that a tough, slip-resistant, easy-to-clean floor is required.

Technical Specifications

Hardness Shore A	ASTM D2240	80
Wear Layer Thickness	ASTM F410	>.050 (Passes)
Static Load Resistance	ASTM F970	0.002 (Passes)
Resistance to Chemicals	ASTM F925	Good
Resistance to Heat	ASTM F1514	4.29 (Passes)
Abrasion Resistance	ASTM D3389	0.16 gr. (Passes)
Dimensional Stability	ASTM F2199	Across (Passes)
Critical Radiant Flux	ASTM E648-03	Class II
Co-efficient of Friction	ASTM C1028	>.80 dry >.64 wet
Moisture Absorption	ASTM D570	0.27%
Thickness	ASTM F386	Passes
Size	ASTM F2055	Passes
Squareness	ASTM F2055	Passes
Quality of Cut	ASTM F511	Passes
Qualifies for LEED Points		Yes
Anti-microbial/Anti-fungal Properties		Yes

Size Specifications

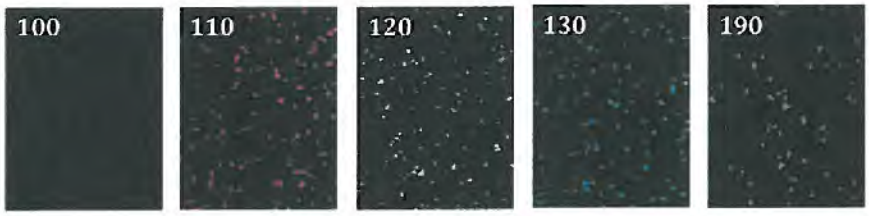
Construction - 100% recycled vulcanized rubber

Thickness	Square			Interlock		
	Dimension	Weight	Area	Dimension	Weight	Area
10mm (3/8")	48" x 72"	60 lbs.	24 sq.ft.	44.3" x 66.5"	56 lbs.	20.46 sq. ft.
				22.2" x 22.2"	9 lbs.	3.42 sq. ft.
12mm (1/2")	48" x 72"	70 lbs.	24 sq.ft.	44.3" x 66.5"	66 lbs.	20.46 sq. ft.
17mm* (3/4")	48" x 72"	100 lbs.	24 sq.ft.	44.3" x 66.5"	86 lbs.	20.46 sq. ft.

** black only*

Custom logo cutting available

Standard Colors



Colors: **100** Black **110** Black with Red speckle **120** Black with Grey speckle **130** Black with Blue speckle **190** Black with Earth speckle
Custom colors are available by special order

Finishes: Smooth top, textured bottom

North West Rubber Ltd. 33850 Industrial Avenue Abbotsford, BC Canada V2S 7T9 *T* 604.859.2002 *F* 604.859.2009 *TF* 1.800.663.8724

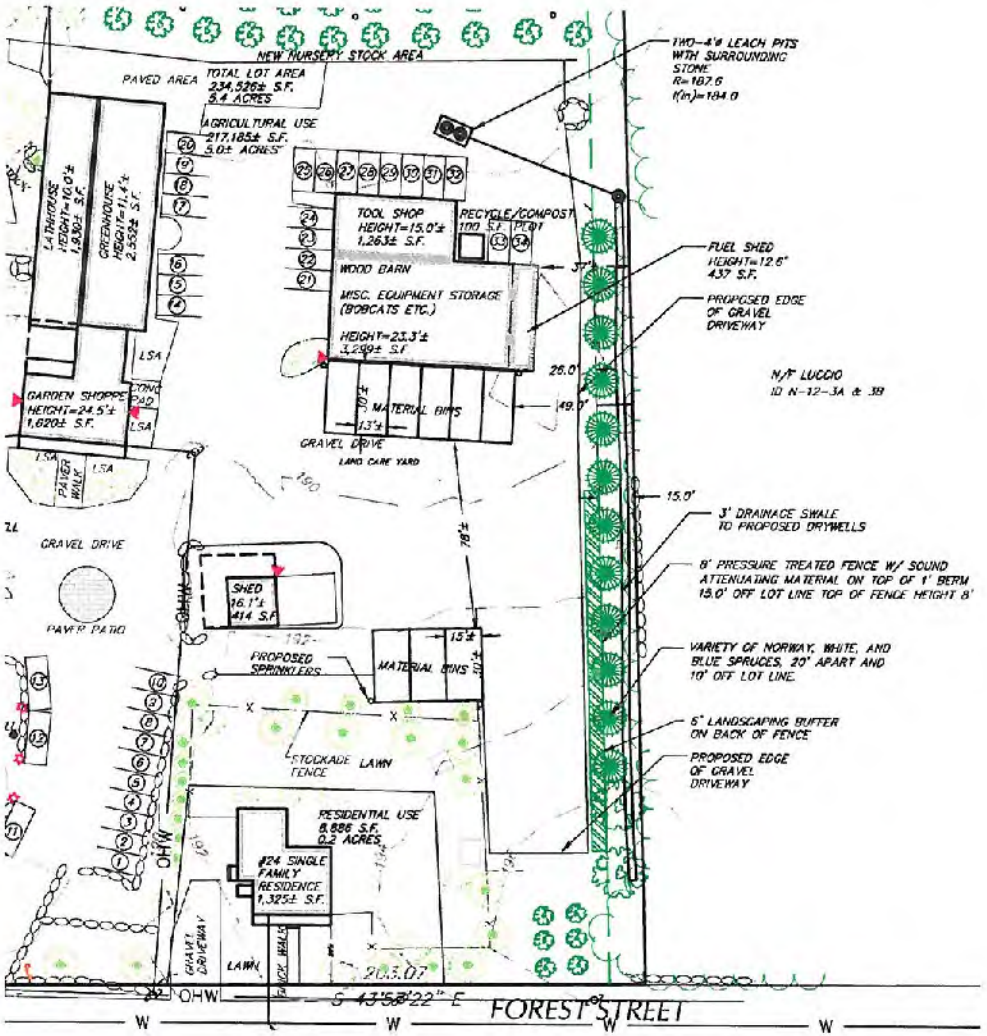
6. Parking Plan

The parking areas and driveways are shown on the Proposed Conditions Plan. Thayer proposes a total of 34 parking spaces to be shared among its customers, employees and for the parking of its vehicles when not in use. These do not include area within the Wood Barn for the parking of bobcats and other equipment when not in use. In particular, spaces numbered 1-16 on the Plan shall be reserved for customers; spaces 17-24 shall be reserved for employees; and spaces 25-34 are available for the parking of equipment when not in use. (Please see Parking Schedule, attached.)

The customer requirement for the Landscape Business Use is very minimal. Most clients of the Landscape Business Use are met at their homes off the Property.

Thayer also conducts a couple of special events during the holiday season. If additional parking for special events is needed, Thayer Nursery will obtain the necessary permits from the Milton Police Department and will secure the appropriate law enforcement assistance which is needed to aid in the management of temporary, on-street public parking.

The driveway and parking areas shall be maintained in good condition and shall be free from litter. Lighting shall ensure safe movement of vehicles and people after dark. Clearance of snow from the parking areas and driveways as reasonably necessary for motorists and customer use shall be the responsibility of Thayer Nursery.



GENERAL NOTES:

PROJECT TITLE:

PARKING SCHEDULE

LOCATED AT

THAYER NURSERY

MILTON, MA

PREPARED FOR:

THAYER NURSERY
270 HILLSIDE STREET
MILTON, MA 02169

DeCELLE

BURKE
& Associates, Inc.
1266 Furnace Brook Parkway, Quincy, MA 02169
(617) 405-5100 (O) (617) 405-5101 (F)

DATE: FEBRUARY 10, 2015

REVISION:

50 25 0 50 100

JOB NUMBER: 2014.004 SCALE: 1"=50'

7. Building Plan

A. Buildings

All of the buildings on the Property are as identified on the Existing Conditions Plan. They are more particularly described in the Application. The closest building to any lot line is the Dry Storage shed, which houses the diesel fuel tank, at the rear of the Wood Barn. Dry Storage is located 37' from the southerly lot line at its closest point.

Thayer proposes to install 9 new material bins. There will be 6 bins along the westerly side of the Wood Barn and 3 opposite along the boundary of Josh Oldfield's dwelling at 24 Forest Street. Each bin shall be made of concrete block. Each of the 6 bins abutting the Wood Barn shall be 30' deep and 13' wide. The bins shall be installed at least 45' from the southerly property line. These bins will contain soil, screened loam, washed stone, dense gravel, stone dust and other stone material (bluestone, brick, cobblestone, and field stone). The 3 bins along the Oldfield property shall be 30' deep and 15' wide and shall be at least 40' from the southerly lot line. They will contain compost and mulches. In addition, as discussed in the Dust Control Plan, sprinklers will be installed at the corners of the bins to control dust and odors.

B. Storage of Fertilizer / Fuel

The Wood Barn shall house seasonally appropriate and accessory garden products including fertilizers, insect, weed and fungus controls. These types of products will be located inside the Wood Barn at least 40' feet from the lot line. These fertilizer type products typically are organic in nature and come in liquid form stored in 55 gallon plastic barrels. Thayer deposits the liquid fertilizer into the water tank/hydroseeder and dilutes it with water, before delivering and spraying the fertilizer at customer locations. Fertilizers may also come in granular form packaged in water resistant bags that are stored on wooden pallets on the concrete floor of the Wood Barn away from any water source or drain basin. The appropriate product is applied on an as needed seasonal schedule. The Wood Barn keeps these products contained and dry and available for Landscape Business Use as needed.

Diesel deliveries to the Nursery will be scheduled on Weekdays between 9:00 am and 2:00 pm. Thayer Nursery will restrict the time when it fuels its trucks and equipment on Weekdays between the hours of 7:00 am and 6:00 pm, and on Saturdays from 8:00 am to 5:00 pm. The above ground diesel tank is located in the Fuel Shed that is attached to the rear of the Wood Barn. The Diesel Tank is located within the Shed, approximately more than 38' feet from the southerly lot line. Fuel delivery trucks shall stop along the easterly side of the shed (~ 35' from the lot line when making deliveries. The fuel delivery truck are equipped with any necessary extension hoses to adhere to the setback requirement. Any requirements of 527 CMR 1.00, Chapter 31 shall be obtained and shall be kept current. The current Diesel Tank Storage Permit is on file with the Milton Fire Department. (See attached and attached copy of letter of State Fire Marshal regarding the inspection performed by Mr. Beaudin.)

For additional clarification, diesel fuel is the same as home heating oil; the only "difference" is that home heating oil contains a red dye so that state and federal regulatory agencies can conduct

inspections to insure the proper product is being used in the proper application. Both products have a very high flash point temperature. Flash point temperature is the minimum temperature at which the fuel will ignite (flash) on application of an ignition source under specified conditions. Flash point varies inversely with the fuel's volatility. Due to its higher flash point temperature, diesel fuel is inherently safer than many other fuels such as gasoline. The Diesel Tank storage area will kept clean and clear of debris.

Thayer proposes the following measures:

1. It will comply with all requirements of the Milton Fire Department and the Massachusetts Department of Fire Services.
2. It will keep the area around the diesel tank clean and clear of debris.
3. Diesel deliveries to the Nursery shall be scheduled on Weekdays between 9:00 am and 2:00 pm.
4. It will restrict the time when it fuels its trucks and equipment on Weekdays between the hours of 7:00 am and 6:00 pm, and on Saturdays from 8:00 am to 5:00 pm.

The Commonwealth of Massachusetts

City / Town of Milton

FP-006
(Rev. 1.1.2015)

Application for Standard Permit

➡ Return completed application to: Milton Fire Dept

Permit Number: —

City or Town: Milton

Date: 1-8-15

DIG SAFE NUMBER

Start Date: N/A

In accordance with the provisions of M.G.L. Chapter 148, as provided in Section 38 application is hereby made

by Mayer Nursery 617-698-2005
(Full Name of Person, Firm or Corporation) (Phone Number)

of 270 Hillside St. Milton 02186
(Address: Street or P.O. Box, City or Town, Zip Code)

for permission to (state clearly purpose for which permit is requested) Install aboveground storage tank for diesel fuel for nursery business

Name of Competent Operator (if applicable) Mayer Nursery Cert. No. —

Date Issued-rejected 1-12-15 By [signature]
(Signature of Applicant)

Date of expiration — Fee $25.00 Amount Paid $ 25.00

The Commonwealth of Massachusetts

City / Town of Milton

FP-006
(Rev. 1.1.2015)

PERMIT

City or Town: Milton

Date: 1-8-15

Permit Number (if applicable): —

DIG SAFE NUMBER

Start Date: N/A

In accordance with the provisions of M.G.L. Chapter 148, as provided in — this permit is granted

to Mayer Nursery
(Full Name of Person, Firm or Corporation)

for to store + underground 1,000 gal. diesel fuel tank

Restrictions: for Nursery business

at 270 Hillside St. Milton
(Street and # or Describe Location for Adequate Identification)

Fee Paid $ 25.00 This permit will expire on —

Signature of Official Granting Permit: [signature] Title Fire Prevent

➡ **This permit must be conspicuously posted upon the premises** ⬅

The Commonwealth of Massachusetts
Executive Office of Public Safety and Security
Department of Fire Services
P.O. Box 1025 ~ State Road
Stow, Massachusetts 01775
(978) 567~3100 Fax: (978) 567~3121
www.mass.gov/dfs

CHARLES D. BAKER
GOVERNOR

KARYN E. POLITO
LT. GOVERNOR

ANDREA J. CABRAL
SECRETARY

STEPHEN D. COAN
STATE FIRE MARSHAL

January 15, 2015

Philip Johenning
23 Parkwood Drive
Milton, Massachusetts 02186

Re: Thayer Nursery Corporation, Milton, MA

Dear Mr. Johenning:

I am in receipt of your correspondence dated December 18, 2014.

In regard to your complaint, I assigned my Senior Compliance Officer, David Beaudin, to conduct a site visit at the subject property located at 270 Hillside Street Milton, Massachusetts.

Compliance Officer Beaudin indicates that the Milton Fire Department has issued a permit for the storage of diesel fuel on the premises. Additionally, at the present time, there is no mulch storage on site. However, the owners of the nursery have been informed and have agreed to obtain a permit to comply with all requirements of 527 CMR 1.00, Chapter 31, before they will be allowed to store such mulch in the spring.

Finally, Officer Beaudin informs me that the chemicals and fertilizers that you mentioned are properly stored and secured and that the nursery appears to be "a well run operation."

Given Officer Beaudin's report, I find no basis for your appeal at this time. Thank you for your interest in fire safety. If I can be of any further assistance, please feel free to contact me.

Very truly yours,

Stephen D. Coan

Stephen D. Coan
State Fire Marshal

SDC/ml

CC: Chief John J. Grant, Jr., Milton Fire Department

8. Mitigation Plans

A. Dust Control Plan

There are 20 sprinklers located in various areas of the property. As shown on the Existing Conditions Plan, there are 9 within the nursery stock area in the northeasterly quadrant of the property; 5 in proposed nursery stock area in the southeasterly quadrant of the property, 2 along the westerly side of the wood barn, 2 along the westerly edge of the proposed LandCare Yard, 1 on the southerly side of the Garden Shoppe, and 1 on the northerly side of the Garden Shoppe. Thayer proposes to maintain the sprinklers as currently located, but will relocate the sprinklers in the LandCare Yard to the corners of the new material bins, as shown on the Proposed Conditions Plan and the LandCare Mitigation Sheet, attached.

Depending on weather conditions, the sprinklers will be turned on at least 3 times per week for 15 minute intervals as necessary to water the plant stock and to control dust. In addition to the sprinklers, Thayer proposes to remove approximately 10,000 square feet of existing hard packed gravel in the area to the east of the Wood Barn and replace with a softer loamy surface.

Thayer proposes the following measures:

1. Remove hard pack in the new grow out area to the east of the Wood Barn and replace with softer loamy material.
2. Relocate sprinklers in the LandCare Yard to the corners of the new material bins.
3. Operate sprinklers at least 3 times per week for 15 minutes – weather depending.

B. Noise and Odor Attenuation Plan – LandCare Yard

Thayer Nursery proposes to implement several measures to mitigate the impacts of noise, particularly in the area of the LandCare Yard. An (8') eight foot pressure treated fence with 6"x 6" posts, placed (8) eight feet on center, will be installed on a 1' high planting berm along the southerly property line and shall be set back (15) feet from the lot line. This will provide a 9' noise attenuating barrier between the LandCare Yard and the southerly lot line. With the exception of large trucks making deliveries of nursery stock, some bulk materials and firewood, the maximum height of all other trucks, including diesel delivery trucks and Thayer's dump trucks is 9'. Larger trucks will not circle the Wood Barn, nor will they unload proximate to the fence. The fence will buffer all trucks from view. Thayer proposes that the fence will run from the back right corner of the Wood Barn approximately (240) two hundred forty lineal feet towards Forest Street. This fence shall be treated with sound attenuation material to muffle the sound of operations in the LandCare Yard. (Please see letter of Cascade Engineering, attached.)

Evergreen plant material will be sited to soften the appearance of the fence and to create an increased noise, dust and odor buffer at heights above 9'. This new natural evergreen buffer will be taller than the proposed fence. Norway Spruces will be planted approximately (16') sixteen feet apart on the abutter's property and shall be sited with input from the abutter, Pam Lepore. Arborvitaes will be planted on the LandCare Yard side of the fence.

Evergreen Plant List on Abutters Property:
(13) Norway Spruces – 10-12' in height (initially)

Evergreen Plant Material on Thayer Nursery Property:
(11) Arborvitae 'deer resistant' – 10-12' in height (initially)

Materials that are delivered in bulk form, such as mulch, loam, stone, etc. will be stored in material bins to be erected and maintained along the Wood Barn and the westerly side of the Yard. Dust will be mitigated on the Property using best practice methods which will over-head sprinklers, hand or tank irrigation regularly as needed. Depending on weather conditions, the sprinklers will be turned on at least 3 times per week for 15 minute intervals as necessary to water the plant stock and to control dust.

Thayer proposes the following measures:

1. Install and maintain 8' tall fence with sound attenuation barrier along the southerly property line, atop 1' high berm. Fence to be located 15' from southerly property line.
2. Plant evergreen barrier between fence and LandCare Yard.
3. Install plantings parallel to fence on Lepore property with input from Ms. Lepore.
4. Install and maintain material bins along the westerly side of the Wood Barn and along the westerly side of the LandCare Yard. Material bins to be set back at least 45' from southerly property line. Relocate sprinklers to the corners of the material bins to control dust and odors.

GENERAL NOTES:

PROJECT TITLE:

LAND CARE MITIGATION PLAN

LOCATED AT

THAYER NURSERY

MILTON, MA

PREPARED FOR:

THAYER NURSERY
270 HILLSIDE STREET
MILTON, MA 02169

DeCELLE
BURKE
& Associates, Inc.
1266 Furnace Brook Parkway, Quincy, MA 02169
(617) 405-5100 (O) (617) 405-5101 (F)

DATE: FEBRUARY 10, 2015

REVISION:

50 25 0 50 100

JOB NUMBER: 2014.004 SCALE: 1"=50'

CASCADE AUDIO ENGINEERING

December 19, 2014

Edward J. Corcoran, Esq.
Corcoran & Associates, PC
1266 Furnace Brook Parkway
Quincy, MA 02169

Re: Thayer Nursery Application for Special Permit
Sound Attenuation Fencing

Dear Mr. Corcoran:

I am writing to provide a more complete description of the sound attenuation properties of the Acoustical fence sound barrier system that Thayer Nursery proposes to install on the inside of an 8 foot cedar fence along the southerly side of its new LandCare Yard. The purpose of the sound barrier is to contain, as much as possible, noise from the trucks, bobcats and other vehicles, and other operations in the yard area.

The material that I have recommended is a fairly heavy (1 pound per square foot) tough, high temperature, fused vinyl product that is loaded with non-lead fillers. It is 1/10 of an inch thick and acts as a sound barrier by resisting the passage of sound waves through it to effectively reduce the energy and volume of sounds in the surrounding environment. I also recommended that the height of the fence be set at 8 feet, because with the added weight of the barrier system, it becomes susceptible to wind damage. In effect, the fence will act as a heavy sail and can be blown over in high wind events.

The attached specifications graphically depict how the sound levels are reduced by the barrier system itself, without accounting for additional attenuation resulting from the use of fence materials like cedar and for evergreen planting, each of which I understand will be installed with the barrier. In each case, additional attenuation will occur, although I am unable to model the extent of such. The graph in this specification simply models the attenuation that would occur if the material were hung by itself (either from a guy wire or chain link fence – as shown in the accompanying photographs).

The graph measures the rate of noise reduction at various sound frequencies that are perceived by machines that can measure sound, with greater reduction being achieved at higher frequencies (think bass v. treble, with bass at lower frequency being blocked at a lower rate than a treble frequency.) The key point of focus in the graph is the area between 60 Hz and 100 Hz along the horizontal axis of the graph. The 60 Hz frequency is reflective of lower pitch equipment, while the 100 Hz frequency is closer to the constant RPM of a diesel type loader. The transmission loss on the vertical axis shows how the noise level, in decibels, is reduced, and for each 10 decibels of reduction, the noise level is cut in half. (Ex. a 10 decibel reduction means that the noise is cut in half, 20

64894 Old Bend Redmond Hwy. Bend, OR 97701
Fon: 541-389-6821 Fax: 541-389-5273
Web: www.cascadeaudio.com

decibel reduction means that the noise is cut in half again.) Here, the graph indicates that the fence will reduce the noise produced by piece of equipment operating at 63 Hz by 8.5 dB (a 45% reduction) and will reduce the noise produced by a piece of equipment operating at 100 Hz by 20 dB (100% reduction). Note also, that the graph depicts how sounds at different frequencies are reduced. It does not occur in a straight line basis, rather, it is an irregular saw-toothed "curve", particularly between 40 Hz and 125 Hz.

With respect to the sound transmission loss contour curve, this is the curve that measures how the human hear perceives sound. The ear does not "hear" sound at low and very high frequency (below 10 dB and below 125 Hz); rather we "feel" the sound. However, the sounds are still attenuated in accordance with the transmission loss (red line) curve. Lower sounds will be blocked and we will feel them less, at the same rate that we would hear less in the ear's range.

Note that this reduction is achieved directly for noise that travels up to the 8 foot height of the fence. Other noise will escape above it and there will be some deflection as that noise "bends" over the fence, however, the bending of the noise also reduces it. The noise levels will also dissipate over distance and as it is muffled by trees and other vegetation that might exist in the area.

I trust that this is helpful. Please let me know if you have any questions.

Regards,

Douglas N. Moir

Douglas Moir
V.P. Engineering
Cascade Audio Engineering

64894 Old Bend Redmond Hwy. Bend, OR 97701
Fon: 541-389-6821 Fax: 541-389-5273
Web: www.cascadeaudio.com

CASCADE AUDIO ENGINEERING

Sound Barrier Fence Information:

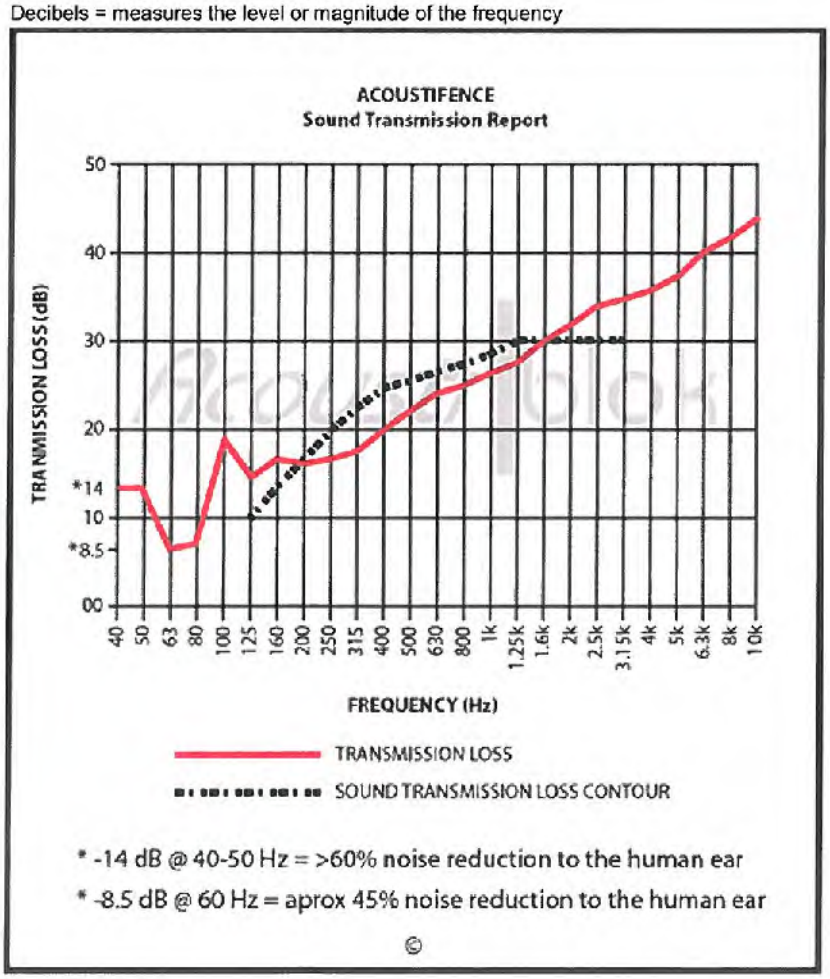
Sound Barriers (MLV) block noise. A Sound Barrier Fence will effectively reduce the energy and volume of any sound created inside or outside of your house. Sound Barrier reduction materials offers high levels of sound attenuation by isolating noisy environments, minimizing resonance of surfaces and reduces exterior noise penetration. Sound Barrier is a limp, tough, high-temperature fused vinyl, loaded with non-lead fillers. It resists passage of sound waves and will reduce noise transmission.

NOTE: a 10 decibel noise reduction is cutting the perceivable noise volume in half and a 20 decibel noise reduction is cutting the volume in half twice.

Acoustic Transmission Loss (dB)

Sound Frequency (Hz)	125	250	500	1000	2000	4000
Sound Reduction (dB)	15	17	21	27	32	36

Hertz = measures the units of frequency
Decibels = measures the level or magnitude of the frequency



64894 Old Bend Redmond Hwy. Bend, OR 97701
Fon: 541-389-6821 Fax: 541-389-5273
Web: www.cascadeaudio.com

So, the higher the frequency of noise that is created, the better the sound barrier performs. These reduction amounts are the minimum reductions if the material is used by itself. Installing the material on a wooden fence only improves the reduction.

Regards,

Douglas Moir
V.P. Engineering
Cascade Audio Engineering

64894 Old Bend Redmond Hwy. Bend, OR 97701
Fon: 541-389-6821 Fax: 541-389-5273
Web: www.cascadeaudio.com

C. Noise and Odor Attenuation Plan – Area to the East of the Wood Barn

The area east of the Wood Barn will undergo significant changes. This area has served as the primary location for landscaping operations, with attendant issues regarding odors, dust and noise. Most of this area was comprised of hard packed gravel, which was substantially impervious, dusty in dry weather, and a loud area of operation. (See Area East of Wood Barn Sheet, attached.)

Approximately 10,000 square feet of impervious gravel surface will be removed and will be replaced with a softer loamy material to provide for a new grow-out area for nursery stock, as shown.

A (10') ten foot pressure treated fence with 6"x 6" posts set (8') eight feet on center will be installed along the back side of the new nursery stock from the existing deer fence and run approximately (120) one hundred twenty feet along the easterly property line. The fence will run parallel to the property line and be set back approximately (30) thirty feet. The fence will be situated such that the top of the fence will stand at elevation 194', an elevation that is 12' above the ground of the abutting property, which is at elevation 182.

Approximately (8) eight evergreens shall be spot sited and planted along the easterly lot line (Cole Property with input from the Coles) to increase the density of the existing established berm. These evergreens shall consisting of a mix of Arborvitae 'Green Giant' (8-10'), White Pine (8-10') and Norway Spruce (8-10').

Dust will be mitigated in this area by over-head sprinklers, or by hand or tank irrigation regularly as needed.

Thayer proposes the following measures:

1. Remove approximately 10,000 sf of impervious gravel surface and replace with softer loamy material and new nursery stock grow out area.
2. Install fence 30' from easterly boundary line. Top of fence to be at elevation 194', which is 12' above elevation of abutting properties.
3. Plant (8) evergreens on existing berm proximate to Cole property.
4. Irrigate with over-head sprinklers 3 times per week or as required, depending on weather conditions.

GENERAL NOTES:

PROJECT TITLE:

AREA EAST OF WOOD BARN

LOCATED AT

THAYER NURSERY

MILTON, MA

PREPARED FOR:

THAYER NURSERY
270 HILLSIDE STREET
MILTON, MA 02186

DeCELLE

BURKE
& Associates, Inc.
1266 Furnace Brook Parkway, Quincy, MA 02169
(617) 405-5100 (O) (617) 405-5101 (F)

DATE: FEBRUARY 10, 2015

REVISION:

50 25 0 50 100

JOB NUMBER: 2014.004 SCALE: 1"=50'

D. Dumpster Management Plan

The dumpster and compost pile are located proximate to the rear of the barn and will be screened by the fence to be installed along the southerly boundary. Debris will be off-loaded into the dumpster by hand. Thayer Nursery shall ensure that movement and/or emptying shall be scheduled Weekdays only, between 10:00 am and 2:00 pm. The dumpster area shall be changed/cleaned at regular intervals to ensure that there will be minimal emission of dust or odors.

Thayer Nursery proposes the following measures:

1. Maintain dumpster/compost in area abutting Wood Barn.
2. Dumpster will be screened by fencing along the southerly property line.
3. Dumpster shall be loaded by hand. There shall be no dumping into the dumpster after 6:00 pm.
4. Dumpster shall be changed regularly to ensure no offensive odors. The changing of dumpsters shall take place on Weekdays only, between 10:00 am and 2:00 pm.

9. Lighting Plan

Exterior lighting is as shown on Existing Conditions Plan and the Lighting Plan. Most of the lighting is set at low elevation and low wattage. However, there are (4) 1,000 watt flood light fixtures that are used for security, and they are located as follows:

The first is located on the southeasterly corner of the Barn at a height of 13.1 feet and faces to the east over the nursery stock area and the area in which Christmas trees are sold. The second is located on the northern peak of the Garden Shoppe at a height of 22' and faces north over the same nursery stock area. The third is located on the southern peak of the Garden Shoppe, also at a height of 22', and faces south to the proposed LandCare Yard. The fourth is located on the Shed at a height of 10' and also faces the LandCare Yard.

The Lighting Plan demonstrates that foot candle effect of each dissipates substantially before the light leaves the premises; however, the lights are still highly visible at locations outside the premises. Thayer Nursery proposes to adjust these flood lights by pointing them in a downward fashion, installing covers and insuring that these lights are shut off by 10:00 pm each night.

Thayer proposes the following measures:

1. Adjust the focus of the flood lights and install covers to block the light from affecting abutting properties.
2. Turn off the floodlights at 10:00 pm.

10. Street Improvement/Roadway Mitigation Plan

Thayer Nursery receives deliveries of materials on a seasonal basis, as described on the attached Delivery Schedule. Thayer Nursery operates seasonal businesses on a year round basis. It operates its landscaping April thru Thanksgiving, the nursery operates generally between April and Christmas, and it sells firewood between September and March. Deliveries are received by various sized trucks, including pickups, box vans, large 10-wheel dump trucks and 48' and 50' tractor trailers.

As described in the Delivery Plan, Thayer Nursery will provide a standard set of delivery directions to all suppliers, which will provide that deliveries are to follow from I-93 northbound on Randolph Ave. (Route 28) to a left onto Hillside Street, then left onto Forest Street and into the property. Once on-site, trucks will proceed to the LandCare Yard for unloading. Trucks will proceed approximately to the front of the Wood Barn, back into the LandCare Yard, unload as appropriate, and reverse the direction of travel to I-93.

Thayer Nursery proposes the following measures:

1. It will provide each supplier with the time of day restrictions on deliveries and a map specifying a single route in and out of the Nursery from Route I-93. That Route will take trucks from I-93 to Route 28 (Randolph Ave.) northbound to left turn onto Hillside Street to left turn onto Forest Street and left turn into the Nursery. This will also for the widest turn possible from Hillside onto Forest and into the Nursery to avoid damage to the shoulders of both roadways.
2. It will install hard pack along the westerly side of Forest and the Northerly sideline of Hillside in the area where these turns are made, in order to prevent rutting and other damage.
3. It will prepare and install a set of roadway signs for installation by Town's DPW. Signs will restrict truck deliveries from entering Forest Street from Chickatawbut Road and will restrict trucks from standing/idling on Hillside and Forest Streets and Parkwood Drive.

11. Sign Plan

Thayer owns five signs. Their locations are shown on the Existing Conditions Plan. Thayer Nursery does not intend to add any signs at this time. There is one sign on Hillside Street opposite Harland Street and a second sign on Hillside, proximate to Forest Street. There is a third sign at the entrance to the Nursery at Forest Street. There is a fourth sign atop above the entrance to the Garden Shoppe. The fifth sign is located at the island at Hillside Street and Randolph Avenue. (It should be noted that Thayer provides an attractive landscaped setting on the island.)

12. List of Vehicles

The equipment owned by Thayer in 2013 is identified on the attached Vehicle List; Thayer Nursery owns and operates all of the same equipment in 2015. The expected replacement date for each is included.

13. Firewood Plan

Thayer Nursery has sold firewood from the premises since 1966. Firewood sales accounted for approximately 51% of all sales generated by Thayer Nursery from December through March.

Incoming firewood deliveries to the Property will be scheduled to occur Monday through Friday between the hours of 9:00 am and 2:00 pm. The firewood is received from several foresters that are permitted to forest and sell firewood by their respective states. All deliveries typically arrive and are emptied at midday. In particular, some states restrict trucks from leaving the supplier's yard before 7:00 am. (See attached letter regarding Vermont environmental restrictions.) In 2012, Thayer received an average of 4 deliveries of firewood per week for the months of September through November, and an average of 3 deliveries per week December through March. (See Delivery Schedule, supra.)

Trucks will pull forward to a point just past the Wood Barn, then back into the barn where the wood is off-loaded. Trucks are off-loaded using a "walking floor" mechanism. (For good demonstrations of the "walking floor", please refer to https://www.youtube.com/watch?v=lm0_QFxP_m4&feature=youtu.be) The walking floor is a slow, quiet mechanism that pushes the load out the back of the truck in 12" intervals. The wood is then pushed to the rear of the barn. A typical load fills up an area that is 25' x 12' (~300 sf), approximately 10% of the floor area of the Wood Barn itself, which contains 3,299 sf. Once emptied, the trucks return to I-93 via Hillside Street and Randolph Ave.

Firewood is sold in two main ways; for pick-up by drive-in clients or delivered to off-site clients. Drive-in clients pull into the Wood Barn and their vehicles are either loaded by hand or machine. Most amounts sold are small – designed to fit in personal vehicles. The second is by delivery. Thayer delivers in its own dump trucks, up to 2 cords per load. The first two bucket fills can be loud as the wood is deposited into the dump trucks; Thayer proposes to mitigate that noise by installing ¾" thick, tough rubber matting in its dump truck beds, similar to that found in weight rooms, hockey rinks, etc. All loading will be done inside the Wood Barn in order to capture dust and muffle noise associated with the operation.

Thayer proposes the following measures:

1. It will provide each supplier with the time of day restrictions on deliveries and a map specifying a single route in and out of the Nursery from Route I-93. That Route will take trucks from I-93 to Route 28 (Randolph Ave.) northbound to left turn onto Hillside Street to left turn onto Forest Street and left turn into the Nursery. This will also for the widest turn possible from Hillside onto Forest and into the Nursery to avoid damage to the shoulders of both roadways.
2. All loading of Thayer's trucks will occur inside the Wood Barn.
3. It will install thick rubber padding in the beds of its dump trucks to muffle the sound of wood being loaded.

Colton Enterprises, Inc.
1697 Route 100, PO Box 688, Pittsfield, VT 05762
(802) 746-8033 www.coltonenterprises.com

January 7, 2014

Thayer Nursery
c/o Josh & Maggie Oldfield
270 Hillside Street
Milton, MA 02186

SUBJECT: Colton Kiln Dried Firewood

Dear Maggie & Josh:

As a board member of the Vermont Forest Products Association I am in continual communication with forestry, agricultural and regulatory counterparts. Proper utilization of our forest resource is a main concern of Colton Enterprises. State foresters oversee logging operations and select trees to be used for firewood. Wood energy can use our forest resource wisely and enhance the health and vigor of our forests for future generations. Our firewood comes from select hardwood logs from these logging sites, primarily from the surrounding counties of Rutland and Windsor, Vermont. Foresters monitor the high quality stewardship and management of Vermont's forests for sustainable use.

We work closely with the Vermont Agency of Agriculture for our out-of-state firewood compliance agreement and the Vermont Department of Forests, Parks and Recreation which promotes the responsible and sustainable manufacture of forest products in this state and assists businesses, like ours, which create energy generation from wood.

As we are heavily constrained by our Vermont Act 250 permits, we cannot leave our yard before 7 AM for deliveries to your area.

Sincerely,

Ray G. Colton
President

14. Snow and Ice Management Plan

Thayer Nursery operates a small snow plowing operation. It owns two snow plows which are attached during winter months to dump/pickup trucks. Thayer provides snow and ice removal services to commercial clients. Thayer's plow trucks will be parked in the Wood Barn when not in use, and will only be used on a 24-hour basis during snow and ice conditions. Plow equipment will be stored in the truck and equipment storage area during the off season.

Thayer proposes the following measures:

1. Snow and ice operations will be staged from the interior of the Wood Barn.
2. Snow plow equipment will be stored be stored in the Wood Barn when not in use during the winter, and in the Truck and Equipment Storage Area during the off-season.

15. Sales Plan

The sales office of the Landscape Business Use shares space with the Nursery. The Landscape Business Use office is located on the second floor of the Garden Shoppe. The Landscape Business purchases products from the Nursery that are available for sale located in buildings and grow-out fields located on the Property as outlined above in Section 4(h). The sales hours shall be Monday through Saturday, 7:00 am to 6:00 pm and on Sunday between 8:00 am and 6:00 pm

16. Christmas Tree/Holiday Sales Plan

Thayer has sold Christmas trees and other holiday items since approximately 1967. Such sales take place daily between the day after Thanksgiving and New Year's Day, between the hours of 8:00 am and 9:00 pm. Sales account for approximately 29% of Thayer's revenues during this period.

Deliveries to the Nursery are scheduled to occur Weekdays between the hours of 9:00 am and 2:00 pm. Trees are staged in the nursery stock area on in the northerly side of the main entrance driveway and in the area on the northerly side of the Garden Shoppe and the Lath House. Other holiday materials are sold from the Barn and the Garden Shoppe. Sales are made on a retail basis; Thayer does not deliver trees to its customers. Trees are hand loaded onto/into customer vehicles.