

PERKINS KWOKA JOINT REV TST
KWOKA REBECCA P & KATELYN E
TRUSTEES
224 Broad St.
Portsmouth, NH 03801

Samantha Collins, Chair
Conservation Commission
City of Portsmouth

October 19, 2023

Dear Mrs. Collins:

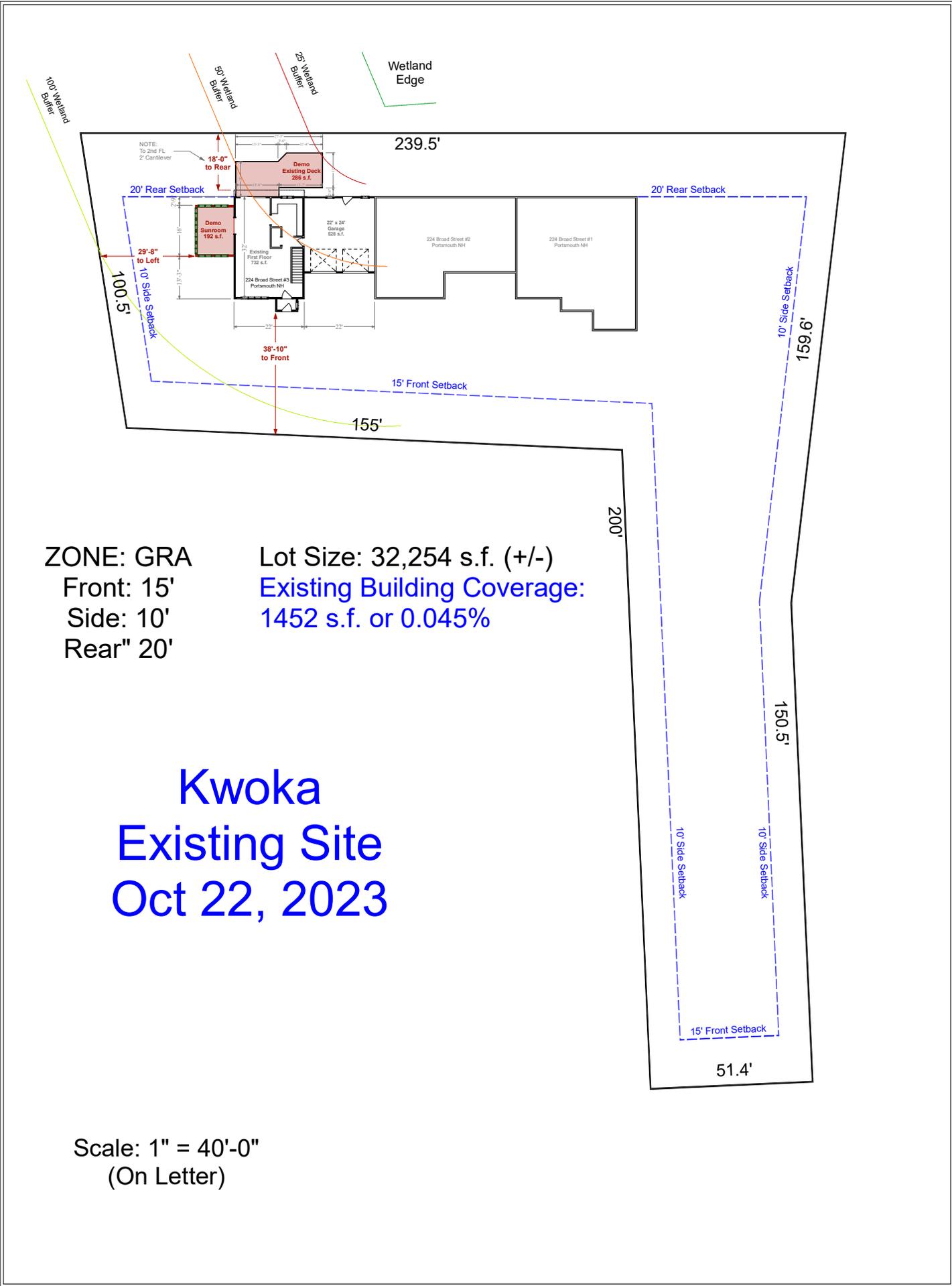
Attached are the plans for some landscaping improvements and an addition to our primary home. The intent is to replace a sunroom which has rotted due to the very wet ground, and to help the surface water from our yard drain properly into the wetland. We have small children and the yard is hard to use, as it has a large grade and the water is trapped in our yard. We hope to install appropriate drainage and plantings to help some surface water to be retained for plantings, and other surface water to be filtered as it drains towards the wetland.

As you will note, we intend to plant microclover as a native plantings and to avoid all use of pesticide and herbicide. We will install extensive plantings and improve the grade of the space, adding a pollinator garden and additional drainage. The open aggregate drainage strip is designed to slow surface water flow and encourage filtration back into the soil. You will also note that our proposed deck is at ¾" spacing with crushed stone underneath to filter runoff surface water.

We look forward to discussing these plans with you.

Thank you,

Katelyn Kwoka



ZONE: GRA
 Front: 15'
 Side: 10'
 Rear: 20'

Lot Size: 32,254 s.f. (+/-)
 Existing Building Coverage:
 1452 s.f. or 0.045%

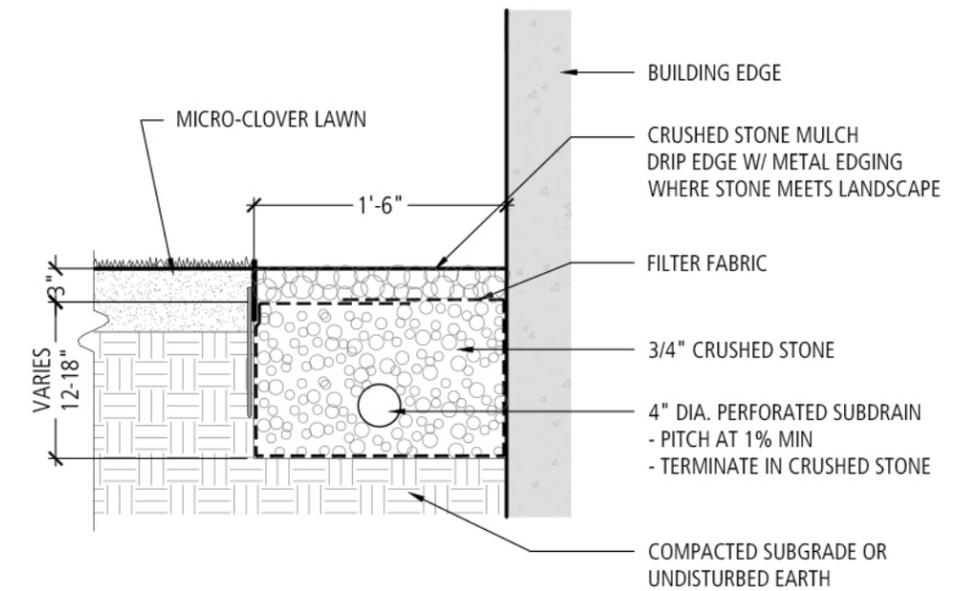
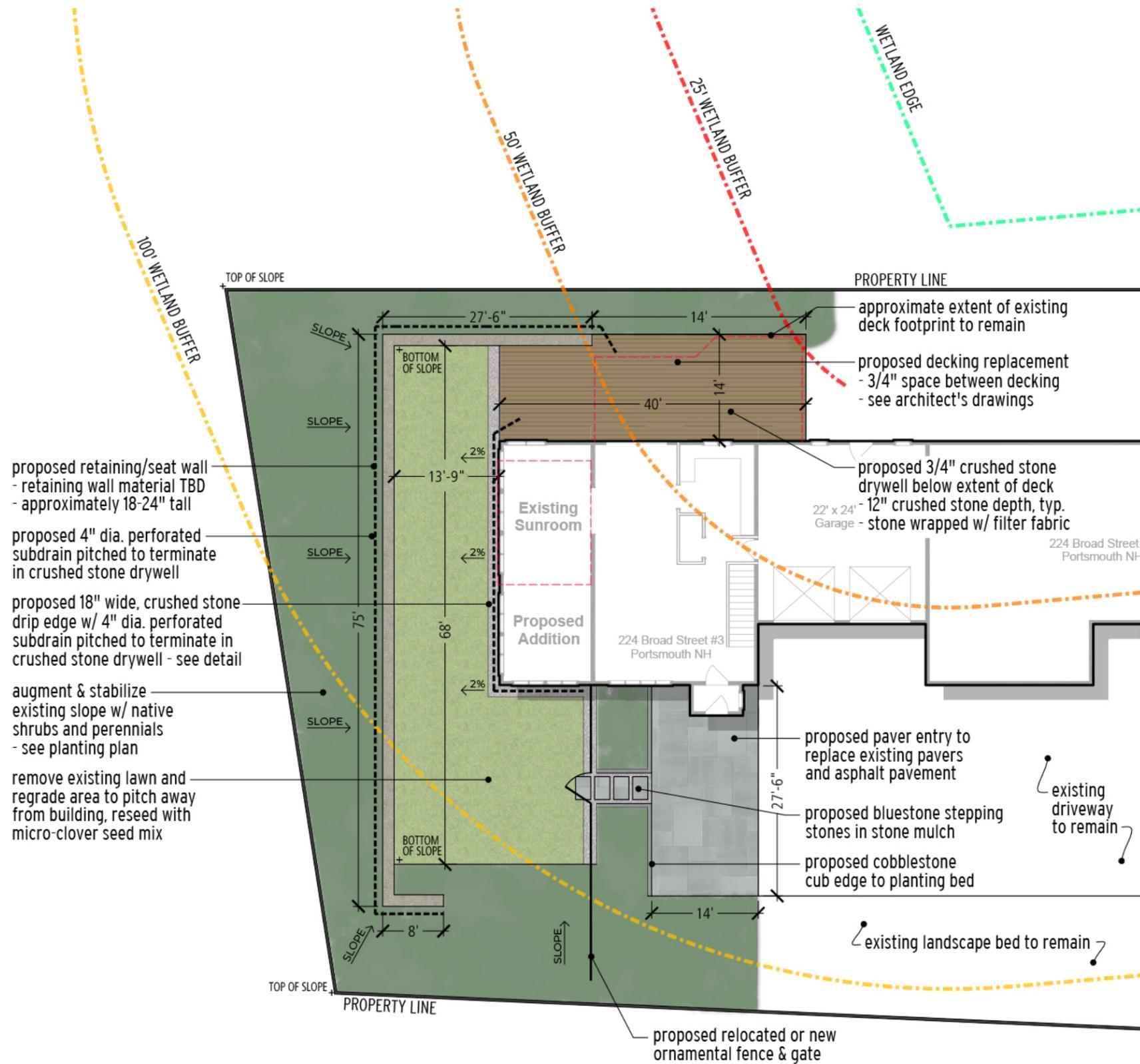
Kwoka
Existing Site
Oct 22, 2023

Scale: 1" = 40'-0"
 (On Letter)

Existing to be Removed	Area
Existing Sunroom	192 SF
Existing Pavement (pavers/asphalt)	491 SF

Proposed Improvements	Area
Proposed Sunroom Addition	384 SF
Proposed Deck Expansion	200 SF
Proposed Pavement (pavers)	401 SF
Proposed Planting Bed	2,385 SF
Proposed Micro-clover Lawn	1,115 SF

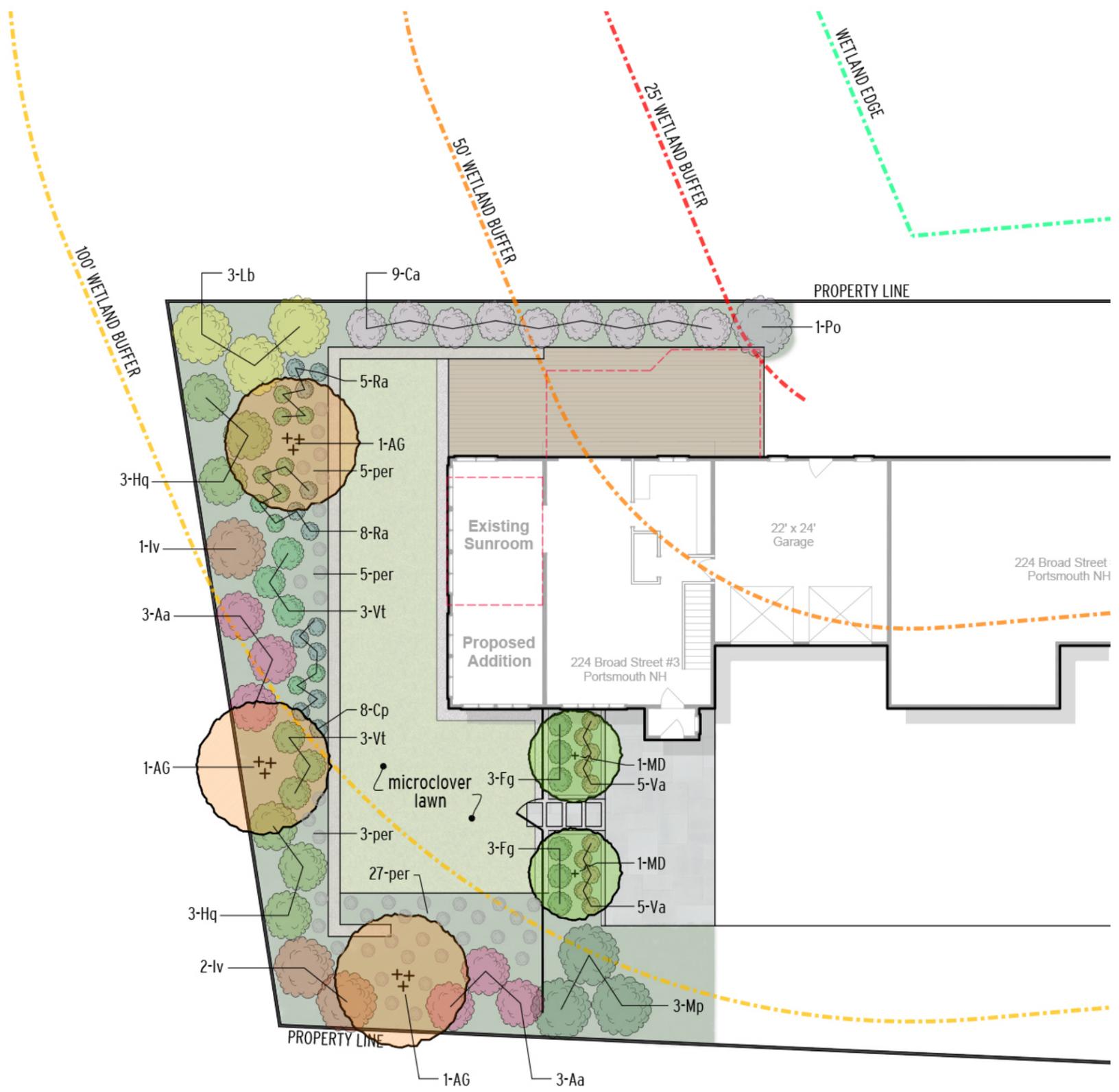
Table: Existing to be Removed Area & Proposed Improvements Area



Proposed Landscape Plan



NOT FOR CONSTRUCTION



Proposed Planting Plan

Trees

Quantity	Symbol	Size	Scientific Name	Common Name	Size & Comments
3	AG	7-8'	Amelanchier grandiflora 'Autumn Brilliance'	Serviceberry	15-25' - native, white flowers, edible fruit, brilliant red-orange fall foliage
2	MD	2.5 CAL	Malus domestica 'Gala'	Apple Tree	15-20' - white flowers spring, deep green foliage, apples in fall

Shrubs

Quantity	Symbol	Size	Scientific Name	Common Name	Size & Comments
6	Aa	3 GAL	Aronia melanocarpa	Black Chokeberry	5' - native, white flowers spring, edible fruit, brilliant autumn foliage
8	Cp	1 GAL	Comptonia peregrina	Sweet Fern	4' - native, colonizing deciduous shrub with fragrant fern-like leaves
10	Ca	3 GAL	Clethra alnifolia	Summersweet	6' - native, fragrant white flowers
6	Fg	3 GAL	Fothergilla gardenii	Dwarf Fothergilla	3' - native, compact, fragrant white flowers, multicolor autumn foliage
6	Hq	3 GAL	Hydrangea quercifolia 'Alice'	Oakleaf Hydrangea	6' - native, compact, abundant large white flowers turn pink with maturity
3	Iv	3 GAL	Ilex verticillata 'Winter Red'	Winterberry	6' - native, heavy fruiting, large, intense red berries, dark green foliage
3	Lb	3 GAL	Lindera benzoin	Spicebush	8' - native, light green leaves turn yellow autumn, yellow flowers
3	Mp	3 GAL	Morella pensylvanica	Northern Bayberry	8-10' - native, wide, upright, glossy green aromatic foliage
1	Po	3 GAL	Physocarpus opulifolius	Common Ninebark	6-10' - native, upright, exfoliating bark, purple foliage with white flowers
13	Ra	1 GAL	Rhus aromatica 'Gro-Low'	Sumac	2-3' - native, green leaves, scarlet-orange autumn, aromatic yellow flowers
10	Va	1 GAL	Vaccinium angustifolium	Lowbush blueberry	12" - native, groundcover, edible fruit, red deciduous autumn foliage
6	Vt	3 GAL	Viburnum trilobum 'Bailey Compact'	American Cranberrybush	5' - native, green leaves, white flowers, edible fruit, brilliant red autumn foliage

Perennials & Groundcovers

Quantity	Symbol	Size	Scientific Name	Common Name	Size & Comments
40	per				
5	ah	1 GAL	Amsonia hubrechtii	Blue Star	36" - native, bluer flowers, dark green needle foliage, yellow autumn
5	an	1 GAL	Aster novae-angliae 'Purple Dome'	New England Aster	18" - native, dwarf, semidouble bright purple flowers, heavy bloomer
10	dp	1 GAL	Dennstaedtia punctilobula	Hay Scented Fern	20" - native, fast growing groundcover, lacy fragrant fronds
5	ep	1 GAL	Echinacea purpurea 'Kims Knee High'	Coneflower	18" - native, dwarf, clear pink flowers
5	ls	1 GAL	Liatris spicata 'Kobold'	Gayfeather	24" - native, spikes of lilac-mauve flowers
5	md	1 GAL	Monarda didyma 'Raspberry Wine'	Wild Bergamot	3-4' - native, clear wine-ed flowers, mildew resistant
5	rf	1 GAL	Rudbeckia fulgida 'Fulgida'	Black-eyed Susan	2-3' - native, deep yellow daisy like flowers w/ black centers

Proposed Plant List



January 8, 2024

Conservation Commission Notes

Prepared for Client:

Kwoka Residence

224 Broad Street

Portsmouth, NH 03801

Notes on items per email 12/8/23:

#1 – Wetland boundary markers will be purchased and installed for the 25-foot buffer. Exact locations of boundary markers TBD.

#2 – Perforated 4-inch diameter drainage pipe will be installed behind the base of proposed retaining wall. Pipe shall be pitched at 2%, in order to slowly move water downslope. Daylighting of pipe will occur before the terminus of retaining wall closest to resource area. From end of pipe @ daylight, water will have approximately 20 feet to flow on-grade, at a very shallow slope. This should allow water to infiltrate soil before arriving at resource area.

#3 – Planting Palette and General Locations:

All new plantings will occur within the area of Dark Green – as shown on plan dated 10/13/23. Generally, the plantings will layer up from groundcovers, perennials, woody shrubs, to a selection of ornamental and fruiting trees. Plant palette shall be further developed by determination of soil type, sun exposure, and feedback from the Conservation Commission. Exact plant locations will be determined by working around existing roots, stumps, and large rocks, while considering slope, erosion control, and spacing for a healthy plant community.

Working Plant Palette – Woody Native:

Amelanchier canadensis	Aronia melanocarpa	Ilex verticillata
Amelanchier x grandiflora	Clethra alnifolia	Myrica pensylvanica
Apple – Fruit	Comptonia peregrina	Rhus aromatica
Cherry – Fruit	Cornus sericea	Sambucus canadensis
Pear - Fruit	Hamamelis virginiana	Viburnum dentatum

Working Plant Palette – Perennial Native:

Achillea	Cimicifuga racemose	Monarda fistulosa	Strawberry
Arctostaphylos uva-ursi	Fern 'Hayscented'	Sporobolus heterolepis	Blueberry
Aster symphyotrichum	Iris versicolor	Thyme	Raspberry



#4 – Paver Stones to Replace Asphalt Area:

Process of paver stone installation shall include the removal of approximately 375 SF of existing concrete pavers and asphalt.

Base materials for new paver stone installation shall include permeable aggregate (4-6 inches) of ¾" crushed stone mixed with stone dust.

Setting bed (on top of base materials) shall be 1-inch of stone dust OR angular sand.

Paver stones shall be Granite Cobblestones OR Reclaimed Granite 'Bars', set dry into permeable setting bed. Joints shall be filled with permeable stone dust OR angular sand.

During the meeting scheduled for 1/10/24 @ 3:30 pm, I will be available to answer any questions about the design and overall construction process.

Regards,

A handwritten signature in black ink, appearing to read 'Shane Mahoney', with a long horizontal stroke extending to the right.

Shane Mahoney, ASLA
Owner | Manager
Groundswell Landscape, LLC
4 4th Street
Amesbury, MA 01913

p. 978-273-0870

e. shane@thegroundswelldesign.com