

Memo

To: Board of Adjustment Chairperson McGinley and Zoning Official Miesche

Verona Board of Adjustment (BoA)

From: Plan Review Committee of the Verona Environmental Commission

c: Verona Environmental Commission Chair

Date: April 29, 2024

Re: Case # 2024-06

12 Lynwood Road [Block 1404, Lot 25]

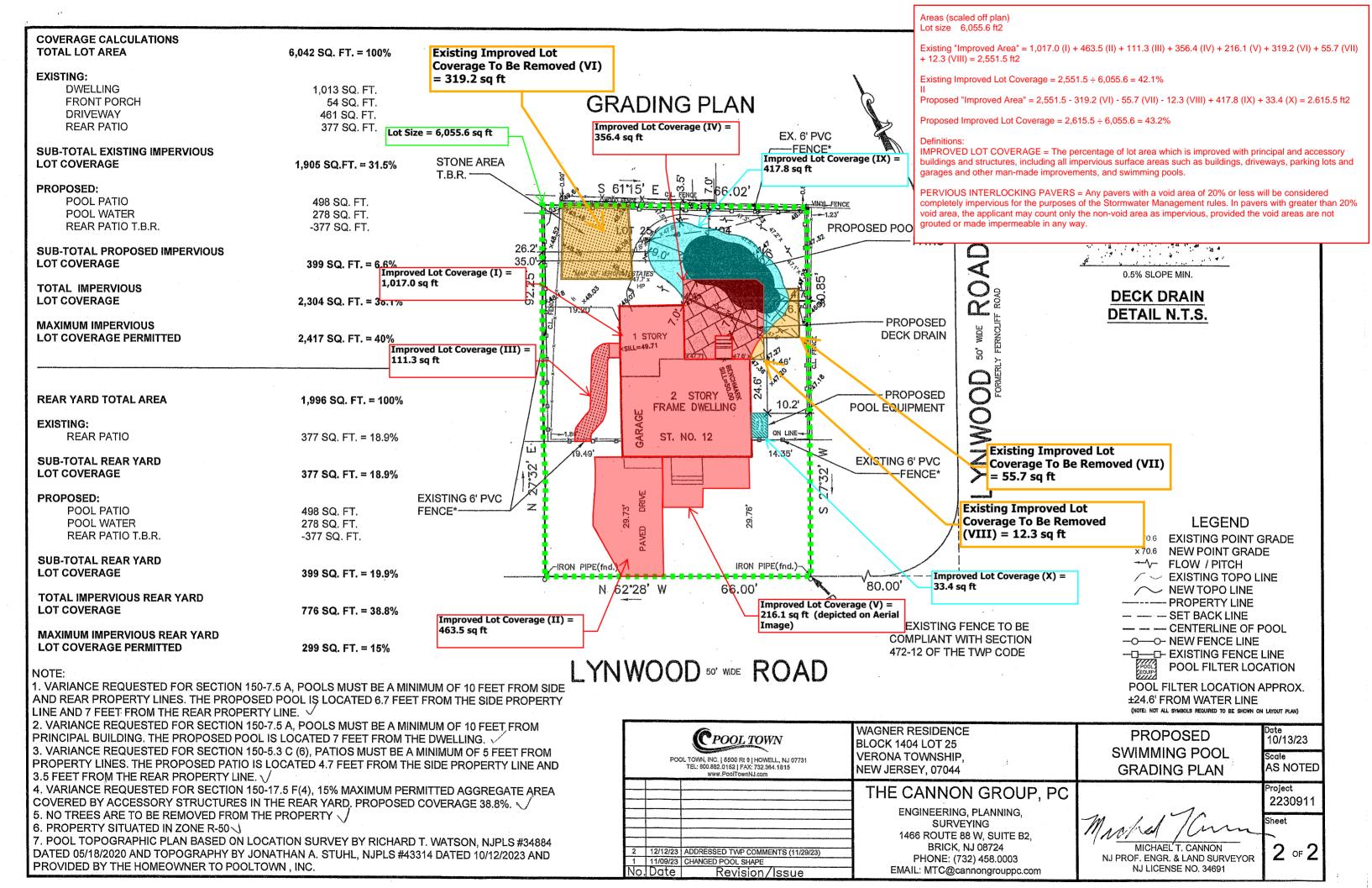
Verona, New Jersey

Zone: R-50 (Residential High Density Single Family)

The Plan Review Committee of the Verona Environmental Commission (VEC) reviewed the application for 12 Lynwood Road in Verona submitted by Ms. Rachael Wagner, which we received on April 17, 2024. We understand that the Applicant is seeking to obtain variances in conjunction with installing an inground pool, patio, and pool equipment in the backyard of the property. The comments below are provided for the Board's consideration:

- 1) The proposed construction in the form of and in-ground pool and patio will likely add to the overall impervious surfaces for the property. The property appears to contain additional impervious surfaces not identified on the submitted application as depicted in publicly available Google images; this includes a front porch built after October 2020 approximately 180 ft² in area. The Applicant does not indicate whether the property has gone before the Board of Adjustments for a variance related to exceeding the permissible Improved Lot Coverage. Have all improved areas on property been properly permitted? Can the Applicant document the approval of the exceedance of the existing Improved Lot Coverage?
- 2) Scaling off the provided site plan and reviewing Google images of the property, we calculated an Existing Improved Lot Coverage of 42.1% based on an estimated "Improved Area" of 2,551.5 ft² (please see attached annotated pdf). We calculated a Proposed Improved Lot Coverage of 43.2% based on a Proposed "Improved Area" of 2,615.5 ft². We have assumed that the temporary tent located in the backyard would be removed to facilitate the construction of the in-ground pool. We understand that the maximum Improved Lot Coverage for the R-50 Zone is 40%.
- 3) The plans indicate a proposed deck drain adjacent to the in-ground pool, but do not indicate where the drain is conveyed to. We recommend that the Applicant provide testimony to clarify stormwater management on their property. Additionally, we recommend that downspout pipes on the home be disconnected from storm drains and redirected to flow away from the home, over the property's permeable areas, gardens, and lawns.
- 4) In addition to the above comments, please see attached the Low Impact Planning and Construction Checklist. This suggested list was compiled by the VEC based on best available practices.

[JP/STD/WS] VEC_2024-04-29 Comments 12 Lynwood Rd.docx



Verona Environmental Commission

Low Impact Checklist: Construction

This suggested list has been compiled by the Verona Environmental Commission based on best available practices. This is not a requirement of the uniform construction code. It is intended to be beneficial to all residents considering renovations and new construction. The purposes of this list are to 1) assist those planning construction projects to do so in a manner that causes the least disruption to the environment; 2) establish a healthy setting for those occupying the new or renovated space; and 3) reduce waste and save resources. Implementing environmentally friendly practices can be economical when considered at pre-construction stages and are often beneficial in the long term.

General Construction
☐ Recycle and/or salvage non-hazardous construction and demolition debris
☐ Use renewable building material and products
☐ Incorporate renewable energy (i.e. geothermal, solar)
☐ Use local products (i.e. local and sustainable woods)
☐ Use local construction products and companies
Conserve energy and reduce electricity use as much as possible
Grounds & Landscaping
☐ Create a sedimentation control plan to prevent sediment from moving off site.
☐ Use native plantings (Native plans are adapted to thrive in local conditions)
☐ Use captured rainwater or recycled grey water for irrigation
☐ Provide bicycle parking to help reduce overcrowded streets and CO2 emissions.
Storm Water Management
Avoid runoff to other properties by installing an underground cistern or rain garden.
This will keep water on your own property and out of the sewer system.
Limit impervious surfaces – use an open grid pavement system (at least 50% pervious)
Promote infiltration that captures and treats storm water runoff from rainfall
☐ Use a water retention system (i.e. rain barrel) to collect rainwater for non-potable uses
Lighting
☐ Choose LED lights (the most environmentally-efficient option)
☐ Purchase renewable electricity, either directly from your power supplier, from an independent clean power generator, or through renewable energy certificates.
☐ Use skylights or solo tubes for natural daytime lighting. Use sensor controls in commercial

Foundation & Basement
☐ Use environmentally friendly foundation sealants (rather than black tar)
☐ Prevent sump pump water from flowing into the sewer system
Roofing
☐ Use light color roofing materials to limit heat absorption created by darker roofs
Use roofing material with a solar reflectance index (SRI) equal to or greater than 78 for low
roofs and 29 for steep-sloped roofs
☐ Install tile or metal roofs
☐ Consider installing a vegetated roof
Heating & Cooling
Use 2 x 6 studs instead of 2 x 4 to increase amount of insulation
☐ Install programmable thermostats that adjust temperatures throughout the day ☐ Use occupant sensing and/or remote control thermostat technologies
☐ Install heat pumps to transfer energy heat and cold Use high-efficiency boilers/furnaces
☐ Use attic fans to regulate heating and cooling
Windows
☐ Choose ultraviolet window protection to protect against sun damage
☐ Install triple pane windows or windows with Argon or Kryton gas between panes
Products
☐ Choose products with low VOCs (VOCs are found in adhesives, interior paints, cabinets, etc)
☐ Avoid products that contain hazardous chemicals such as formaldehyde and cyanide
☐ Choose ENERGY STAR® appliances
☐ Install dual flush toilets Install low flow shower heads
☐ Avoid garbage disposals and make provisions for composting

Verona Environmental Commission

Low Impact Checklist: Planning

This suggested list has been compiled by the Verona Environmental Commission based on best available practices. This list is intended to assist individuals involved in planning and building projects in Verona Township towards submitting low impact plans. The goal of a low impact plan is not only to increase cost savings and add value to your project but to make environmentally responsible choices and eliminate project delays in early stages of the planning process.

General Construction & Design Provide occupants with connection to outdoor space through increased natural light and views Orient buildings facing southwest to maximize potential solar installation ☐ Use orientation and design to maximize passive solar heat/cooling Use proper planning to prevent damage to surrounding properties and public spaces ☐ Minimize disturbance to soils and vegetation Recycle and/or salvage non-hazardous construction and demolition debris ☐ Use renewable building materials and products ☐ Use local and sustainable woods ☐ Incorporate renewable energy and reduce energy use **Grounds & Landscaping** ☐ Create a sedimentation control plan Limit altering steep slope areas Encourage landscaping that requires limited moving, trimming, and watering ☐ Create landscapes that limit the need for lawn chemicals and maintenance Position evergreens to the north to shield wind/ Position deciduous trees to the south to cool buildings Use native plantings (Native plans are adapted to thrive in local conditions) ☐ Place parking spaces in shaded areas ☐ Place bicycle parking racks in secure areas near entrances Use paving materials with an SRI value >29. This will reflect, not absorb solar heat. **Storm Water Management** Limit impervious surfaces – use an open grid pavement system (at least 50% pervious) Reduce impervious cover to promote infiltration that captures and treats storm water Use a water retention system (i.e. rain barrel) to collect rainwater or recycled gray water for non-potable uses

Foundation & Basement
☐ Use alternative practices (rather than black tar) for foundation sealants
☐ Encourage aeration and ventilation
☐ Draw sunlight into basement areas through access windows
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Roofing
☐ Use light color roofing materials to limit heat absorbed by dark colored roofs
Use roofing material with a solar reflectance index (SRI) equal to or greater than 78 for
low roofs and 29 for steep sloped roofs
Consider Tile or Metal roofs
☐ Construct roofs that can support solar installations
Lighting
☐ Use solar lighting outdoors
☐ Use skylights or solo tubes for natural daytime lighting
☐ Use motion sensor lighting where applicable
☐ Choose energy-efficient light bulbs
Products
Avoid products that contain hazardous chemicals such as formaldehyde and cyanide
Use local products (i.e. local and sustainable woods)
☐ Use local construction equipment and companies when possible

For more information and resources please see:

The Native Plant Society of New Jersey - http://www.npsnj.org

The Association of New Jersey Environmental Commissions - http://www.anjec.org

US Green Building Council NJ Chapter - http://usgbc.org

New Jersey Green Building Manual - http://greenmanual.rutgers.edu

The New Jersey Department of Transportation Master Plan - http://njbikepedplan.com

Rutgers Center for Green Building - http://greenbuilding.rutgers.edu

The Verona Environmental Commission - http://www.veronaec.org