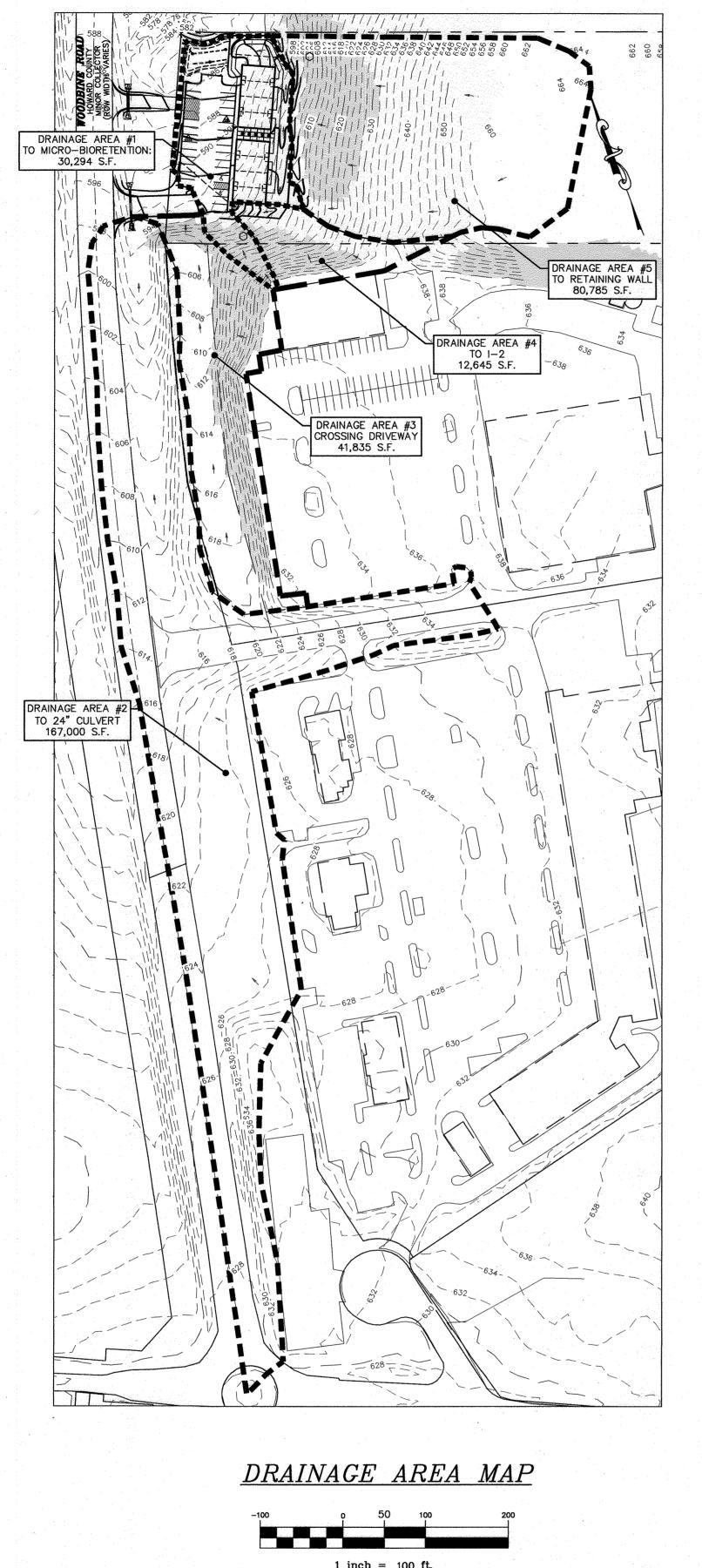


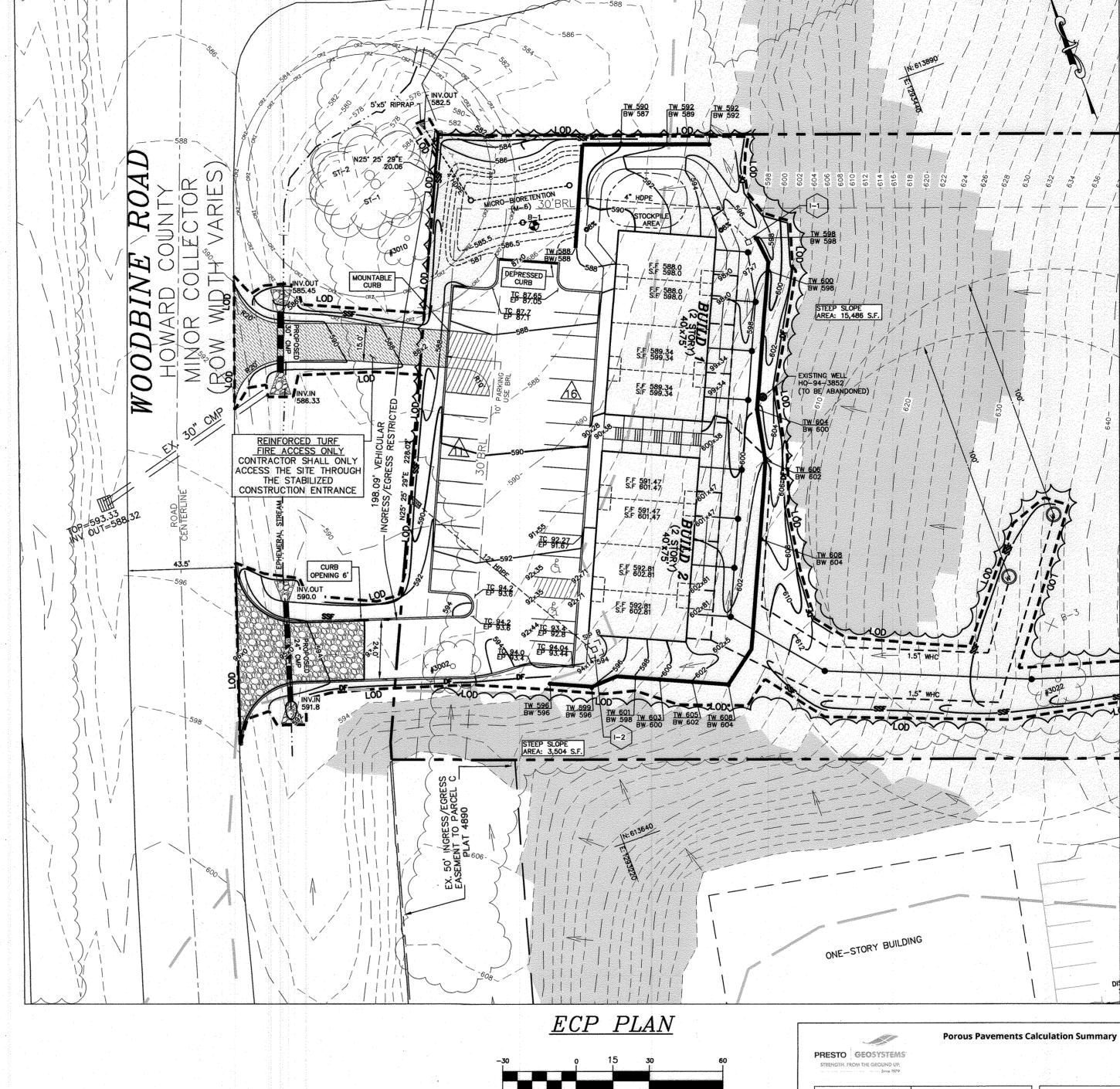
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of **2**

ECP 24-044



1 inch = 100 ft



1 inch = 30 ft.

APPROVED: DEPARTMENT OF PLANNING AND ZONING

DATE 9/12/24 CHIEF, DIVISION OF LAND DEVELOPMENT DATE

HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND,

OWNER/DEVELOPER WOODBINE/BRANTLY, LLC 8318 FORREST ST.—SUITE 200 ELLICOTT CITY, MARYLAND 21043 443-992-4600

Project Name: Woodbine Overlook Company: Mildenberg Boender & Assoc. Calculation Name: Reinforced Turf Designer: Polina Marks Project Location: Woodbine, MD Client: | Woodbine/Brantly, LL Date: 2024-07-26 12:44:58 Calculation Method: Porous pavement guidelines are determined based on vehicle load, tire pressure, infill type, subgrade strength, and selected product. **Calculation Parameters Vehicle Information** Traffic Load Rating: H/HS20 Typical Access Description: Heavy Fire Truck or Large Construction Equipment AASHTO tire pressure (psi): 110 AASHTO single axle loading (kips): 32 AASHTO vehicle load (lbs): 80000 **Required Information** CBR (%): 3.0 Subgrade Soil Type: Sand Geosystems Product: GEOBLOCK® Ground Slope (%): 3-6 Type of Infill: Topsoil or Sod GEOBLOCK® Depth (in): Recommended Engineered Base Depth (in):

Nonwoven Average Runoff Coefficient (n-value): 0.15 Not Applicable

1. Refer to the GEOBLOCK® Construction Resource Package for a complete description of installation and construction methods. 2. Provide a non-woven geotextile (minimum 6 oz/180 g weight) separation layer and install per Manufacturer recommendations including overlaps based on sub grade CBR.

3. The topsoil infill should be a good quality and not be compacted within the unit as the infill determines the permeability and controls the rate of water infiltration within the porous pavement system. 4. Engineered base is a homogeneous mixture consisting of crushed rock having an AASHTO # 5 or similar designation blended with pulverized topsoil and void component generally containing air and/or water. This homogeneous mixture will promote vegetative growth and provide required structural support. The aggregate portion shall have a particle range from 9.5 mm to 25 mm (0.375 to 1.0 in) with a D50 of 13 mm (0.5 in). The percentage void-space of the aggregate portion when compacted shall be at least 30%. The pulverized topsoil portion shall equal 33% +/- of the total volume and be added and blended to produce a homogeneous mixture prior to placement or washed into the in-place compacted aggregate. Once placed, the mixture shall be compacted to 95% Standard Proctor Density.

This calculation summary is for illustrative purposes and is not a detailed design. The information is based on product properties specific to GEOBLOCK® manufactured by Reynolds Presto Products, Inc. All rights reserved. Any use of this information for any porous pavement unit other than that manufactured by Reynolds Presto Products, Inc. is strictly prohibited and makes this information invalid. Reynolds Presto Products, Inc. assumes no liability resulting from the use of this information and the responsibility for determining the suitability of any calculation result rests solely on the user of this calculation tool.

Surveyors 7, MD 21043

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