PROJECT FORM: PERVIOUS PAVERS

Instructions

- Answer all questions thoroughly for your proposed pervious pavers/pavement project.
- This is one part of multiple pieces required for a complete cost share grant application.
- Where the Hennepin County Natural Resources Interactive Map is a potential resource, you can refer to this guide for assistance.

The following is meant to serve as an example for NMCWD’s Cost Share Grant pervious paver project form. The site depicted and corresponding information is fictional.

Questions

1. Name of Applicant or Organization: Jane Doe

2. Where does runoff water currently flow that you plan to redirect to the pervious pavers? Check all appropriate boxes below.

   - ☐ Storm drain
   - ☐ Pond or other water body
   - ☐ Green space (grass, garden, forest, etc.)
   - ☒ Impervious surface (driveway, street, etc.)

3. Attach a site plan or aerial image and mark the area of the pervious pavers and any areas that drain to the proposed pervious pavers. Label each draining area using an Area Code in the table below. Fill in the table with each area’s square feet and land cover type. Add the areas to get a total drainage area. The Hennepin County Natural Resources Interactive Map can be used if needed.

   **Note:** If a water conveyance feature (downspout, concrete swale, etc.) drains to the pavers/pavement, remember to add in the surface area that it drains, such as a section of roof.

<table>
<thead>
<tr>
<th>Area Code</th>
<th>Square Feet</th>
<th>Type of land cover (forest, turf, roof, pavement, etc.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>[A1]</td>
<td>476</td>
<td>roof</td>
</tr>
<tr>
<td>[A2]</td>
<td>32</td>
<td>Pavement (steps)</td>
</tr>
</tbody>
</table>
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<table>
<thead>
<tr>
<th>[A3]</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>[A4]</td>
<td></td>
</tr>
<tr>
<td>[A5]</td>
<td></td>
</tr>
<tr>
<td>[A6]</td>
<td></td>
</tr>
<tr>
<td>[add more as needed]</td>
<td></td>
</tr>
</tbody>
</table>

*Total Drainage Area = **508 square feet**

*Total area does not include rain or snowmelt directly on the paver area; but should be considered when designing the capacity of the system.

4. Check the boxes for all the types surfaces of runoff that will enter the pervious paver system.
   - ☐ Green area (grass, forested, garden, etc.)
   - ☒ Roof
   - ☒ Other impervious surface (sidewalk, pavement, patio, etc.)

5. Attach a cross-section plan of the pervious pavers/pavement. It should include:
   - layers of substrate
   - material in each layer
   - depth of each layer
   - the diameter of rocks in each layer
   - native soils
   - type of pervious paver used
   - any curbs
   - any drainpipe, including pipe’s diameter

6. Will your pervious pavement system have an underdrain? An underdrain is a concealed pipe placed in the system underneath the pavers that helps water drain.
   - ☐ Yes – if yes, answer questions 7-8 and 11-14
   - ☒ No – if no, answer questions 9-14

7. What is the surface area of the pervious paver system at the height of the underdrain?
8. What is the depth of the system below the underdrain?

9. What is the surface area at the top of the pervious paver system? 1200 square feet

10. What is the height between the top of the system and the bottom? 15 inches, or 1.25 feet

11. What is the surface area at the bottom of the pervious paver system? 1400 square feet

12. What is the approximate cubic footage of the storage area (below the surface) of the pervious paver system? If the system will have an underdrain, list the cubic footage below the underdrain. 1300 cubic feet

13. According to the Hennepin County Natural Resource Interactive Map, what is the hydrologic group for the soil present at the location of the paver system? If the map says cut-and-fill or does not indicate a hydrologic group, report this. “C” hydrologic group

   *Please note, because D soils have poor infiltration, systems on D soils without underdrains will be subject to further engineering review and are less likely to be funded.

14. Do you plan to compact the native soil below the pervious paver system? No

Continue on to remaining applications steps listed at https://www.ninemilecreek.org/get-involved/grants/applications/
Relevant gutter and downspout locations
Draining areas
Shows water flow

Legend

A1
A2

paver area

40 feet
30 feet
Pavers, 3-inch in height

Clean aggregate \( \frac{1}{4} \)-inch to \( \frac{3}{8} \)-inch

Bedding coarse \( \frac{1}{2} \)-inch rock, 2-inch layer

Base \( \frac{3}{4} \)-inch rock, 4-inch layer

Subbase 2\( \frac{1}{2} \)-inch rock, 6-inch layer

Native soil