

Permeable Paver Design Review Checklist



Applicant: _____

Date: _____

Submitted By: _____

Project Location: _____

- 1) Drainage Area (DA) shedding to Permeable Pavement: **SF** _____ **and Ac** _____
- 2) Percent of DA shedding to the Permeable Pavement that is Impervious: _____ % (if soil quality restoration is done or if soils investigations indicate green space is capable of absorbing the WQv the green space can be eliminated from the DA for WQv calculation. If neither applies, assume ½ of the green space is equivalent to impervious surface.)
- 3) WQv _____ CF (show calculations below or attach)
 $WQv = (Rv) \times (P) \times (DA) \times 43,560 \text{ SF/ac} \times (1 \text{ ft}/12\text{in})$ (See Iowa SW Mgt Manual)

4) Surface Area of Permeable Pavement: _____ SF

5) Describe the type of pavement (i.e. type of paver, manufacturer, etc): _____

6) Pore space storage of rock base: _____ CF (Length ____ ft x width ____ ft x depth ____ ft of rock base x 40%).

7) Discuss soils investigation findings (i.e. texture, degree of compaction, percolation potentials, depth to water table, contamination etc): _____

8) Describe the aggregate used (depth of layer / quantities / size / AASHTO or ASTM No. classification);

a. _____

b. _____

c. _____

9) Provide calculations of aggregate quantities or attach a copy of the calculations: _____

10) If permeable pavement is less than 10 ft from a foundation describe water proofing methods: _____

11) What is the maximum slope of the finished surface of the permeable pavement: _____ %

12) What is the slope of the bottom of the rock base: _____ %

13) If the bottom of the rock base is greater than 0.5% slope describe how slope at the bottom of the rock base will be modified to maximize storage (i.e. fabric checks, earth berms, etc. - if fabric checks are used, describe the material and flow through rate) _____

14) Size of perforated drain tile: _____

15) Depth of tile from surface of the pavement: _____

16) How many inches is the tile above the bottom of the rock base: _____

17) Describe the outlet for the perforated drain tile: _____

18) Describe overflow (i.e. what provisions are provided should the system plug – where would water flow, how would it be conveyed): _____

19) Describe Erosion and Sediment Control measures used to protect permeable pavement if active construction will be taking place in the drainage area after installation: _____

20) Please attach a map of the drainage area.

21) Please attach a plan view, profile and cross sectional drawing

FOR REVIEWERS USE ONLY

Design appears to comply with the standards in the Iowa Stormwater Management Manual.

Design does not appear to comply with the standards in the Iowa Stormwater Management Manual.

Comments: _____

Name of Reviewer: _____ Date: _____

Signature: _____