Permeable Paver Design Review Check List

pplica	ant: Date:
ubmit	tted By: Project Location:
	Drainage Area (DA) shedding to Permeable Pavement (including permeable pavement area) SFand Ac(attach map of DA with arrows showing how water flows to the paver
	Percent of DA shedding to the Permeable Pavement that is Impervious% WQv CF (show calculations below or attach)
3,	$WQv = (Rv) \times (P) \times (DA) \times 43,560 \text{ SF/ac} \times (1 \text{ ft/12in}) \text{ (See Iowa SW Mgt Manual)}$
4)	Ratio of drainage area shedding to the Permeable Pavement to surface of Permeable Pavement area::
	Drainage Area (Sq Ft) Surface of Permeable Pavement (Sq Ft)
5)	Surface Area of Permeable Pavement SF (show calculations for minimum area needed Ap
	$App (sq ft) = \frac{Q (cfs)x 3600 sec/hr x 12 in/ft}{10 in/hr}$
6)	Minimum depth of rock storage area Ft (show calculations below or attach) $ \frac{WQv\ (cu\ ft)or\ design\ volume}{App\ x\ 0.35} $
7) 8)	Pore space storage of rock base: CF (Length ft x Width ft x Depth ft of rock base x 35%) Describe the type of pavement (type of paver, manufacturer, etc.):
9)	Discuss soils investigation findings (i.e. texture, degree of compaction, percolation potentials, depth to water table, contamination etc.):
10) Describe the aggregate used (depth of layer / quantities / size / AASHTO or ASTM No. classification); a
	b
	c

Ju	l٧	20	٦1	q
Ju	·v	~ \	,,	

11) Provide calculations of aggregate quan	July 2019 tities or attach a copy of the calculations:
12) If permeable pavement is less than 10	ft from a foundation describe water proofing methods:
14) Is the bottom of the rock base greater the bottom of the rock base will be mo	shed surface of the permeable pavement:% than 1.0% slope? If yes, describe how the slope at odified to maximize storage (i.e. fabric checks, earth berms, etc material and flow through rate)
(Show calculations below or attach for	volume of water stored) $ = 50 x \rho x W x \frac{D^2}{S_o} $
$V = Volume \ of \ water \ stored \ uphill \ of$ $\rho = porosity \ of \ aggregate \ (assume \ 0.$ $W = width \ of \ the \ aggregate \ perpendiction \ of \ $	35)
D = height of the baffle (ft) $S_o = slope of the excavated bottom of$	f the aggregate chamber (%) (10% is "10", not "0.10")
16) Depth of tile from surface of the paver17) How many inches is the tile above the18) Describe the outlet for the perforated	ment:
	s are provided should the system plug – where would water flow,

July 2019

20) Describe Erosion and Sediment Control measures used to protect permeable pavement if act construction will be taking place in the drainage area after installation:	
21) Please attach a map of the drainage area	
22) 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 Man	ıual.
Comments:	
Name of Reviewer: Date:	
Signature:	