

DEFINITIONS

Wetland: Land characterized by the presence of water at a frequency and duration sufficient to support and that, under normal circumstances, supports wetland vegetation or aquatic life, and is commonly referred to as a bog, swamp, or marsh. If state regulated it is not a wetland for purposes of this ordinance.

Surface Waterbody: Any area that ~~permanently~~normally has water flowing or standing above ground to the extent that evidence of an ordinary high-water mark is established and is not confined to one lot. Lakes, ponds, whether natural or artificial, rivers, and streams, ~~and other watercourses and waters characterized by this definition shall be considered as surface water bodies.~~

~~**Watercourse:** Any and all rivers, streams, creeks, tributaries, lakes, ponds, wetlands, and other types of natural or man-made structures that channel, contain, or retain water.~~

Vegetative Filter Strip: Treats stormwater pollutants with that stormwater sheet flowing through healthy vegetation such as such as turf grass, or swales, and/or meadow, and/or woods, with a maintenance plan and protected by site or plot plan requirements to prevent neglect, adverse alteration, or removal. Its intent is to decrease velocity, permit natural infiltration, encourage passive storage, allow sediment particles to settle, and remove pollutants.

17.40 Deals with stormwater and has been incorporated into 17.45 below

17.45 Stormwater Management

(A) **General Provisions:** The following standards shall apply for when **standards for impervious coverage are exceeded** in order to protect existing surface waterbodies and wetlands from negative impacts of polluted or excessive stormwater.

1. Direct Discharge: Except as authorized by the State of Michigan's ground water discharge permits, dDirect discharge thru a vegetative filter strip into a wetland is only permitted if the strip is at least 10 feet deep or only into a surface waterbody if the strip is at least 30 feet deep or wetland. Absent the required Vegetative Filter Strip, direct discharge to a surface waterbody shall be prohibited unless it is first intercepted by a filtering device approved by the Township Engineer sump or French drain.

2. Construction: Stormwater management facilities shall be installed as soon as possible during construction.

3. Impacts: Any proposed impacts to surface waterbodies shall adhere to applicable regulations of the MDEQ.

4. *On-site Detention*: All sites shall retain stormwater on site or shall detain it to allow discharge without a negative impact on adjacent properties, streets, or waterbodies, ~~or wetlands.~~

5. *Natural Drainage Patterns*: NO CHANGE

6. *Adverse Impacts*: NO CHANGE

7. *Level of Service*: NO CHANGE

8. *Increased Volume*: Any increase volume of runoff shall not create adverse impacts to adjacent properties, streets, or waterbodies, ~~or wetlands.~~

Delete Swales - it was added to *Vegetative Filter Strip*:

(B) *Plot Plans*: Absent total stormwater on-site retention, in addition to the general.....

Change: *impervious* coverage to 45%, and

Change: within thirty-~~five~~ to thirty (30) feet of a surface waterbody

No change to (B.1), a., b., c., e., and f. Remove: swales from d. (part of *vegetative filter strip*)

No other suggested changes to 17.45