

ORDINANCE 94-53-CM

WHEREAS, the members of the Board of Commissioners of the County of Tippecanoe, in the State of Indiana are also members of the Tippecanoe County Drainage Board; and

WHEREAS, the members of the Board of Commissioners of the County of Tippecanoe, State of Indiana, did on the 7th day of November, 1988 adopt Ordinance No. 88-40 CM which established "Tippecanoe County, Indiana, A General Ordinance Establishing Storm Drainage and Sediment Control", commonly known as the "Tippecanoe County Drainage Code", and

WHEREAS, the Drainage Code now requires a fence around all wet bottom detention facilities, and

WHEREAS, many developers wish to make the detention basin a part of the design of their development to be used by the residents of the area for recreational purposes which preclude it being fenced; and

WHEREAS, the Tippecanoe County Drainage Board has determined that a fence can be omitted if certain safety features are included in the design of the detention basin, and because such design features will increase the size of the detention basin and its cost, the developer should be given an alternative of constructing a fence as provided in the present ordinance or incorporating such safety features in its design.

NOW, THEREFORE BE IT ORDAINED AND ENACTED BY the Board of Commissioners of the County of Tippecanoe, State of Indiana, and the Tippecanoe County Drainage Board that:

A. Section 14 h, entitled "Wet Bottom Design Requirements" (appearing on pages 33 and 34) of Ordinance No. 88-40 CM, as amended, shall be deleted from said Ordinance No. 88-40 CM, and replaced by the following two sections, h and h (a):

h. Wet Bottom Basin Design Requirements with Fence:

Where part of a detention basin will contain a permanent pool of water, all the items required for detention storage shall apply except that the system of drains with a positive gravity outlet required to maintain a dry bottom basin will not be required. A controlled positive outlet will be required to maintain the design water level in the wet bottom basin and provide required detention storage above the design water level. However, the following additional conditions shall apply:

(1) Basin designed with permanent pools or containing permanent lakes shall have a water area of sufficient size to handle the runoff from the proposed development. If fish are to be used to keep the pond clean a minimum depth of approximately 10 feet shall be maintained over at least 25 percent of the pond area. The remaining lake area shall have no extensive shallow areas, except as required by subsection (3) below.

(2) In excavated lakes the underwater side slopes in the lake shall be stable. In the case of valley storage, natural slopes may be considered to be stable.

(3) A safety ledge 6 feet in width is required and must be installed in all lakes approximately 18 inches below the permanent water level. In addition, a similar maintenance ledge 12 inches minimum above the permanent water line shall be provided. The slope between the two ledges shall be stable and of a material such as stone or riprap which will prevent erosion due to wave action.

(4) A safety ramp exit from the lake is required in all cases and shall have a minimum width of 20 feet and exit ramp shall be 6:1 slope. The ramp shall be of a material that will prevent its deteriorate due to vehicle use and/or wave action.

(5) Periodic maintenance is required in lakes to control weed and larval growth. The reservoir shall also be designed to provide for the easy removal of sediment which will accumulate during periods of reservoir operation. A means of maintaining the designed water level of the lake during prolonged periods of dry weather is also required.

(6) For emergency use, basin cleaning or shoreline maintenance, facilities shall be provided or plans prepared for auxiliary equipment to permit emptying and drainage.

(7) Aeration facilities to prevent pond stagnation shall be provided, if required. Design calculations to substantiate the effectiveness of these aeration facilities shall be submitted with final engineering plans. Agreement for the perpetual operation and maintenance of aeration facilities shall be prepared to the satisfaction of the Drainage Board.

(8) Basins designed with permanent pools or containing permanent lakes shall be surrounded by a nonclimbable fence at least six (6) feet in height suitably posted to prevent unauthorized entry into the pool area, as shown on typical cross-section.

h (a). Wet Bottom Basin Design Requirements without Fence:

Where part of a detention basin will contain a permanent pool of water, all the items required for detention storage shall apply except that the system of drains with a positive gravity outlet required to maintain a dry bottom basin will not be required. A controlled positive outlet will be required to maintain the design water level in the wet bottom basin and provide required detention storage above the design water level. However, the following additional conditions shall apply:

(1) Basin designed with permanent pools or containing permanent lakes shall have a water area of sufficient size to handle the runoff from the proposed development. If fish are to be used to keep the pond clean a minimum depth of approximately 10 feet shall be maintained over at least 25 percent of the pond area. The remaining lake area shall have no extensive shallow areas, except as required by subsection (3) below.

(2) In excavated lakes the underwater side slopes in the lake shall be stable. In the case of valley storage, natural slopes may be considered to be stable.

(3) A safety ledge of 10 feet minimum in width is required and must be installed in all lakes 18 inches minimum below the permanent water level. In addition, a similar maintenance ledge 12 inches minimum above the permanent water line shall be provided. The slope between the two ledges shall be 6:1 slope and of a material such as stone, riprap or other erosion control material which will prevent erosion due to wave action.

(4) A safety ramp exit from the lake is required in all cases and shall have a minimum width of 20 feet and exit ramp shall be 6:1 slope. The ramp shall be of a material that will prevent its deteriorate due to vehicle use and/or wave action.

(5) Periodic maintenance is required in lakes to control weed and larval growth. The reservoir shall also be designed to provide for the easy removal of sediment which will accumulate during periods of reservoir operation. A means of maintaining the designed water level of the lake during prolonged periods of dry weather is also required.

(6) For emergency use, basin cleaning or shoreline maintenance, facilities shall be provided or plans prepared for auxiliary equipment to permit emptying and drainage.

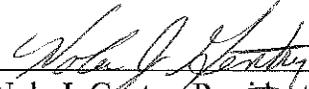
(7) Aeration facilities or other facilities to prevent pond stagnation shall be provided, if required.

(8) As shown on typical cross-section.

B. This Ordinance shall become effective after its final passage, approval and publication as required by law.

Adopted and approved by the Tippecanoe County Drainage Board at Lafayette, Indiana, on this 2nd day of November, 1994.

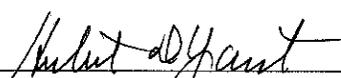
TIPPECANOE COUNTY DRAINAGE BOARD



Nola J. Gentry, President



William D. Haan



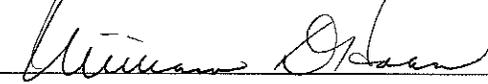
Hubert D. Yount

Attest:

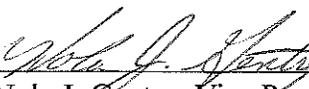

Shelli L. Muller, Secretary

Passed on first reading at Lafayette, Indiana on this 5th day of December, 1994.

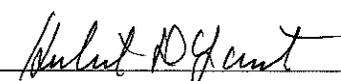
BOARD OF COMMISSIONERS
TIPPECANOE COUNTY



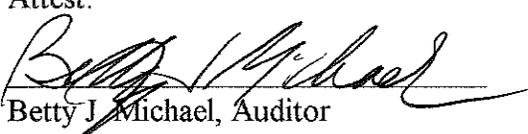
William D. Haan, President



Nola J. Gentry, Vice-President



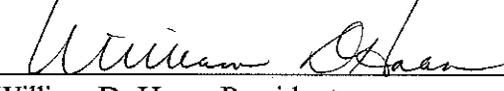
Hubert D. Yount, Member

Attest:


Betty J. Michael, Auditor

Passed on second and final reading at Lafayette, Indiana on this 19th day of December, 1994. Effective January 1, 1995.

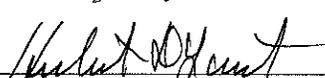
BOARD OF COMMISSIONERS
OF TIPPECANOE COUNTY



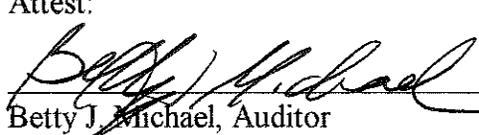
William D. Haan, President



Nola J. Gentry, Vice President



Hubert D. Yount, Member

Attest:


Betty J. Michael, Auditor