



## PERMIT APPLICATION FOR STORM WATER REVIEW

OFFICE USE ONLY

Permit Number
Date Issued
Expiration Date
File Number

### 1. APPLICANT (Please Check if applicant is the landowner or designated agent\*)

Name <input type="checkbox"/> Landowner <input type="checkbox"/> Designated Agent			
Address			
City	State	Zip Code	Area Code/Telephone Number

### 2. LOCATION

Section	Town	Range	Township	City/Village	County
Subdivision		Lot No.	Parcel Number	Street Address	

### 3. PROPOSED PROJECT

Project Type:  Residential  Multi-family  Commercial  
 Industrial  Land Balancing

Describe Project	Size of Earth Change (acres or square feet)
	Project Start Date
Name of, <b>and</b> Distance to Nearest Lake, Stream or Drain	Project Completion Date

### 4. STORM WATER CONTROL PLAN

<b>Note:</b> <u>2</u> complete sets of plans must be attached.	Estimated Cost of Soil Erosion and Sedimentation Control	
	Plan Preparer's Name	Area Code/Telephone No.

### 5. PARTIES RESPONSIBLE FOR EARTH CHANGE

Name of Landowner (if not provided in Box No. 1 above)		Address			
City	State	Zip	Area Code/Telephone No.		
Name of "On Site Authorized Representative" Responsible for Earth Change			Company Name		
Address	City	State	Zip	Area Code/Telephone No.	

Landowner's Signature	Print Name	Date
Designated Agent's Signature*	Print Name	Date

\*Designated agent must have a written signed statement from landowner authorizing him/her to secure a permit in the landowner's name

Refer to current Gratiot County Drain Commission Fee Schedule for application fees

Return Completed Application to:  
 GRATIOT COUNTY DRAIN COMMISSIONER  
 904 EAST CENTER ST. ITHACA, MI, 48847  
 PHONE: (989)875-5207  
 FAX: (989)875-5262

## CONCEPTUAL REVIEW CHECKLIST

Prior to the storm water review, the Owner/Developer shall submit to the Drain Commissioner or his designee the conceptual design and layout of the proposed development. The Developer/Owner shall also submit copies of the conceptual design and layout to the Township where the development is proposed for preliminary review and comment. This conceptual design and layout, at a minimum, shall include:

Each of the following items shall be included:

Small location map showing the section and part of the section in which the site is situated.

Location and description of all activities that may impact or be impacted by the proposed development or redevelopment both on and off the site.

Acreage of the total site and acreage of the area being effected by the development.

If known, a conceptual layout of the proposed drainage system for the development or redevelopment.

## **DRAINAGE PLAN CHECKLIST**

No site plan or building shall be approved or any other permit issued unless the Owner has provided that the storm water runoff is within the capacities as provided for within the Administrative Guidelines for Storm Water Management, Gratiot County, Michigan.

In order for the Owner, Developer, or Builder to be in compliance with the guidelines he/she shall submit to the Gratiot County Drain Commissioner for review by the Drain Commissioner's designee, two complete sets of the site drainage and grading plan and two copies of the calculations for allowable discharge and on-site storage requirements, as prepared by a Registered Professional Engineer.

Each of the following items shall be included on the plan:

Total acres of site.

Total acres of watershed draining through the site outlet.

Drainage district lines including sub-district lines contributing to individual storm sewers and rear lot drainage systems.

Location of site including dimension to nearest intersection road or section line.

Existing ground elevations at maximum 50 foot centers, including shots on perimeter of site and 50 foot beyond (suggested, may not be required on all sites).

Elevations of ground, edge of pavement, and buildings within 50 foot of site.

Top of curb, gutter, ditch line, and centerline of road elevation at maximum 50 foot intervals.

Existing storm catch basins, manholes, sewers, and culverts showing rim and invert elevation(s).

Proposed elevations showing parking lot grades and control and building elevations.

Lawn/landscape areas.

Location, size, length, slope, and type of proposed storm sewer and rear lot drains.

Rim and invert elevation(s) of proposed manholes and catch basins, including rear lot drainage.

Location of on-site storage showing contour line for top of storage elevation.

Cross Sections, dimensions, and/or details defining the shape of proposed detention basins in non-paved areas.

## **DRAINAGE PLAN - CHECKLIST (Continued)**

Each of the following items shall be included in the submitted calculations:

Utility locations on plans and contact information.

Drainage District size in acres and impervious factor.

Calculation of maximum allowable discharge (using Design Pond Design Calculation spreadsheet).

Calculation of on-site storage required.

Calculation of storage volume provided.

Calculation of size of restrictor.

Hydrologic & Hydraulic Calculations for sizing storm sewer systems which will be maintained by a public agency.

Hydrologic and Hydraulic calculations showing there will be no adverse impacts upstream or downstream of the proposed development.

The sizes and locations of immediately upstream and immediately downstream culverts serving the major drainage routes flowing into and out of the development site. Any significant off-site and on-site drainage outlet restrictions other than culverts should be noted on the drainage map.

A maintenance agreement, in form and substance acceptable to the County, for ensuring maintenance of any privately owned storm water runoff facilities. The maintenance agreement shall include the developer's written commitment to provide routine, emergency, and long-term maintenance of the facilities and, in the event that the facilities are not maintained in accordance with the approved drainage plan, the agreement shall authorize the County to maintain any on-site storm water run-off facility as reasonably necessary, at the developer's expense.

Engineer Certificate of Outlet & Construction. The name of the engineering firm and the registered professional engineer that designed the drainage plan and that will inspect final construction of the storm water run-off facilities.

Beyond the Gratiot County requirements, the Developer must submit applications for review/permit with all agencies that regulate storm water within the area of development. These may include Michigan Department of Transportation, Michigan Department of Environmental Quality, Gratiot County Road Commission, local agencies with zoning ordinances and Gratiot County Permits Office.