

<b>Document Review for Water Resource Protection</b>		
Orion Township		
July 26, 2005 (Revised per community comments)		
<b>Criteria</b>	<b>Yes/ No</b>	<b>Comments</b>
<b>Storm Water Management</b>		
<b>I. Storm Water Management Standards</b>		
<b>A. Plans and Policies:</b>		
1. Does the Master Plan call for the preservation of natural features as parkland and/or in open space developments to help alleviate problems associated with storm water runoff?	No	Calls for open space preservation, but does not connect it to stormwater.
2. Does the Master Plan identify storm water management as an important community goal or policy?	No	However, the community has a Stormwater Management Ordinance that is referenced in several areas, and states that it is important to apply and enforce this ordinance.
3. Does the Master Plan state both the quality and quantity of storm water are important issues to address in storm water management policies?	Yes/No	Plan talks about water quality and the amount of storm water runoff, but does not connect them to stormwater management policies.
4. Does the Master Plan relate storm water management to the protection of health, safety and welfare of the community's residents? (For example, storm water management can reduce flooding, improve water quality, etc.)	Yes	
5. <i>Additional information provided by the community/plan:</i>		The Master Plan states that the Stormwater Management Ordinance is one of the primary tools in controlling the impacts of new developments. It also mentions that Phase II requirements will need to be addressed in the next several years.
<b>B. Development / Redevelopment Regulations:</b>		
1. Does the Zoning Ordinance require that developers preserve natural drainage patterns to the fullest extent possible?	Yes	But as part of the Review Procedures and General Standards for Soil Erosion Control.
2. Do you regulate storm water in your community?	Yes	Through the Stormwater Management and Erosion Control Ordinance
3. If yes, are your regulations coordinated with the County's storm water regulations so that your rules do not contradict the County's?	Yes	
4. If your community regulates storm water, do your regulations address the following:		
a. Are there storm water guidelines that fully detail specific storm water design criteria?	No	
b. Maintain or establish buffer strips (between 30 and 100 feet wide) from the top of bank of any watercourse or surface water?	Yes/No	The ordinance does not require a specific width (Section 6.05.B.10). Also, this provision is under the "Soil Erosion" standards, not "Stormwater Management" standards. The PUD requirements do require a 25' minimum buffer adjacent to water features, and allow trails, observation decks, and the like to be constructed within the setback for passive enjoyment of nature.
5. Does the Zoning Ordinance include flood control and water resource protection performance standards?	Yes	
6. If yes, do they address the following to reduce the quantity of runoff and improve runoff quality:		

a. Limit land disturbance and grading?	Yes	But this is included under the "Soil Erosion Control" section of Section 6.05.
b. Maintain vegetated buffer strips and other existing vegetation to improve infiltration of storm water?	Yes	
c. Minimize impervious surfaces?	No	However, Subdivision Regulations have specific guidelines for impervious surfaces and also requires review of a Subdivision Open Space Plan to "meet the letter and spirit of the Z.O."
d. Encourage the use of infiltration devices?	Yes	
7. Other information provided by the community/plan:		The Stormwater Management Ordinance requires that all stormwater management facilities be maintained in proper working condition by the owner of the facility. If not, the Township has legal recourse to fix the problem. Note that all stormwater management facilities require a maintenance agreement between the Township and owner.
<b>II. Engineered Best Management Practices (BMP's)</b>		
A. Plan and Policies		
1. Does the Master Plan include goals / policies that encourage the use of Best Management Practices (BMP's) to minimize, collect, and treat storm water?	No	Although the Plan does reference the Stormwater Management Ordinance.
B. Development / Redevelopment Regulations:		
1. Does the Zoning Ordinance require the use of BMP's when possible?	Yes	In Stormwater Management Ordinance.
2. Does the Zoning Ordinance require the use of above ground BMP's instead of belowground storm water conveyance systems?	Yes	Section 6.05.C states that infiltration facilities are the preferred stormwater storage/infiltration facility.
3. Does the Zoning Ordinance prohibit direct discharge of storm water into wetlands, streams or other surface waters without pre-treatment?	Yes	Section 6.05.C requires stormwater storage facilities that protect water quality and prevent flooding.
4. Does the Zoning Ordinance call for periodic monitoring of BMP's to ensure they are working properly?	Yes	The Ordinance implies that the Township conducts inspections per Section 9.01.
5. Does the Zoning Ordinance require that all storm water management systems and / or BMP's be maintained?	Yes	Sections 9.01 and 9.03 describe requirements of maintenance and maintenance agreements between the Township and property owner.
C. Design Standards:		
1. Do the Design Standards provide minimum guidelines for BMP's that pre-treat and filter storm water, and retain storm water in a bio-retention facility?	No	
<b>III. Infiltration</b>		
A. Plans and Policies		
1. Does the Master Plan call for the preservation of natural features for the purpose of preserving the existing infiltration of storm water?	No	
B. Development / Redevelopment Regulations:		
1. Does the Zoning Ordinance call for the use of BMP's that improve a site's infiltration potential?	Yes	In the Erosion Control section of the Stormwater Management and Erosion Control Ordinance.
<b>Impervious Surface Reduction</b>		
<b>I. Reducing Impervious Surfaces</b>		
A. Plans and Policies:		

1. Does the Master Plan call for minimizing impervious surfaces in new construction and redevelopment projects to reduce the amount of runoff and improve infiltration?	No	
2. Is the Master Plan goal of reducing impervious surface tied to protecting the health, safety and welfare of residents through protection of water quality, natural features and open space?	N/A	
<b>II. Parking Lots</b>		
A. Development / Redevelopment Regulations:		
1. Does the community have flexibility in the parking ordinance to reduce the number of spaces constructed if warranted by the proposed development?	Yes	The Zoning Ord states that "the PC at their discretion may modify the # requirements for off street parking".
2. Is some portion of a parking lot required to be planted with trees / vegetation within the parking lot paving?	Yes	Requires at least 5% of interior parking lot landscaped if lot has 20 or more spaces.
B. Design Standards:		
1. Are shared parking facilities encouraged?	Yes/No	The Ordinance does not specifically <i>encourage</i> shared parking areas, but does allow them (called "Collective Parking") and permits up to 25% reduction in the total amount of parking required for both uses. The ordinance also states that the parking demands of the two uses cannot overlap.
2. Are spaces having smaller dimensions for compact cars encouraged?	No	
3. Are developers encouraged to use parking lot islands as stormwater infiltration areas?	No	
4. <i>Additional information provided by the community/plan:</i>		The Master Plan states that the parking requirements should be evaluated to determine ways of controlling excessive paved areas.
<b>III. Street and Access</b>		
A. Development / Redevelopment Regulations:		
1. Does the community have jurisdiction over roads?	No	
2. If yes, do regulations pertaining to roads include the following standards:		
a. Are streets to be designed with the minimum required pavement width needed to support travel lanes, emergency, maintenance and service vehicles?	N/A	
b. Are right-of-way widths minimized to avoid mass clearing and grading?	N/A	
3. <i>Additional information provided by the community/plan:</i>		The Township has an objective in the Master Plan to develop and adopt design standards for private roads. The Plan goes on to say that new private road proposals should encourage preservation of natural features.
		The Plan includes a goal to preserve significant natural features near roadways by designating Natural Beauty Roads.
<b>IV. Lot Setbacks / Lot Width / Lot Coverage</b>		
A. Development / Redevelopment Regulations:		
1. Does the Zoning Ordinance allow for the relaxation of side yard setbacks and narrower frontages to reduce the total road length (and overall site imperviousness)?	Yes	Through the PUD process and Open Space Preservation process.
2. Does the Zoning Ordinance allow for the relaxation of front yard setbacks to reduce driveway lengths (and overall site imperviousness)?	Yes	Through the PUD process. However, it doesn't specifically tie modifications in setbacks as a means of reducing impervious surfaces.

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<b>Land Conservation and Development Techniques</b>		
<b>I. Open Space / Park Acquisition</b>		
A. Plans and Policies:		
1. Does the Master Plan and/or Recreation Master Plan call for community acquisition of open space?	Yes	The Master Plan does, by cooperating with other State and County agencies. The Recreation Master Plan calls for working with the Planning Commission to encourage new development to provide useable park space.
2. Does the Master Plan and/or Recreation Master Plan recognize the importance of open space preservation as a way to protect the health, safety and welfare of residents, protect vital air, land and water resource quality, to buffer air and noise pollution, preserve wildlife habitat, and preserve aesthetic values and the community's beauty?	No	
3. <i>Additional information provided by the community/plan:</i>		The Master Plan includes an objective to provide recreation facilities that contribute to the ecological balance of the Township. A policy states that distinctive natural features in parks should be preserved wherever possible.
		The Master Plan also has a policy that encourages preservation of open land areas as part of new residential developments, as well as preserve natural features.
		The Master Plan talks in some length about preservation of open space to preserve the character of the Township. It also describes several ways preserving open space can be achieved.
<b>II. Conservation Easement and Similar Tools</b>		
A. Plans and Policies:		
1. Does the Master Plan call for the use of conservation easements or other tools to conserve open space within the community?	Yes/No	Presents Conservation Easements as an "option" for the Township to consider. It doesn't encourage their use.
<b>III. Clustering and Open Space Developments</b>		
A. Plans and Policies:		
1. Does the Master Plan include goals to preserve natural features and protect the quality of vital air, land, and water resources while accommodating development?	Yes	Calls for use of cluster/open space regulations.
B. Development / Redevelopment Regulations:		
1. Does the community have a Clustering and/or Open Space Ordinance?	Yes	
2. Are flexible site design criteria available for developers that use open space or cluster design options? (Ex. Relaxed setback widths and sidewalk requirements.)	Yes	
3. Are open spaces required to be consolidated into larger units, or required to be a minimum size or width?	Yes	The open space is required to be 50% of the gross site area, and connected with adjacent open space where feasible.
4. Does the open space have to be managed in a natural condition?	Yes	
5. Is open space required to be protected through a conservation easement or other similar mechanism?	Yes	
<b>IV. Urbanized Communities</b>		
A. Plans and Policies:		

1. Are infill developments encouraged in areas that already have significant development?	N/A	
<b>B. Design Standards:</b>		
1. Are infill and redevelopment projects encouraged to promote conservation and natural resource preservation?	N/A	
2. Are re-development projects required to coordinate improvements with existing facilities and infrastructure?	N/A	
<b>V. Rural Communities</b>		
<b>A. Plans and Policies:</b>		
1. Is agriculture described in the Master Plan as an economically viable profession in the community?	No	Agriculture is noted as a past activity in the Township, but is no longer a viable profession in this area.
2. Have prime and unique agricultural lands been identified and mapped in the Master Plan?	No	Not a land use category in the Master Plan.
<b>B. Development / Redevelopment Regulations:</b>		
1. Has the community designated an Agricultural Zoning District?	No	Although agriculture is a permitted use in SF, SE & SR, R-1, and R-3.
2. Does the Agricultural Zoning District also consider the preservation and protection of natural features, such as wetlands or groundwater?	N/A	

### Erosion and Sedimentation Control

<b>I. Erosion and Sedimentation Control (ESC):</b>		
<b>A. Plans and Policies:</b>		
1. Is erosion and sedimentation control identified in the Master Plan as an important mechanism to protect the health, safety and welfare of residents through protection of water and soil resources?	Yes/No	One of the objectives listed in the Master Plan indicates the "utilization of the Township Stormwater Management & Erosion control Ordinance to ensure that the development will not adversely impact natural resources and surrounding property".
<b>B. Development / Redevelopment Regulations:</b>		
1. Does the Zoning Ordinance address erosion and sedimentation controls?	Yes	Through the Stormwater Management and Erosion Control Ordinance.
2. If yes, is the program coordinated with the County's program?	Yes	The Township administers its own program, which is not in conflict with the County's standards. It uses the standards published by the Oakland County Soil Conservation District.
3. If yes, does the community's program include the following standards?		
a. Require that soil erosion control measures be in place before granting a building permit?	No	The ordinance requires that a Soil Erosion Permit must be <i>issued</i> before any earth change or development activity, but does not specifically say that the soil erosion control measures be installed in the field before the applicant can receive a building permit. (Section 4.02.A)
b. Protect waterways and stabilize drainageways by requiring mechanisms, such as silt fencing, at the edge of the waterway buffer and special crossing and diversion techniques at waterway crossings?	Yes	Section 6.05.B.3.
c. Require that all erosion and sedimentation controls be maintained?	Yes	Section 9.03

d. Require that all erosion and sedimentation controls be monitored on a periodic basis?	Yes	The Stormwater Management and Erosion Control Ordinance does not specifically state how often these facilities are monitored, but the ordinance mentions that access be maintained for inspections (Section 9.02.A).
e. Methods to respond to public complaints regarding construction site erosion control?	No	
4. Is your community the enforcing agent for erosion and soil sedimentation protection?	Yes	Conducted by the Township's Engineering Consultant Orchard, Hiltz & McCliment.
5. If no, does the community staff report erosion problems to the County enforcing agency?	N/A	
6. If yes, has your community implemented the following administrative procedures?		
a. Have the changes to the State's law (effective 2000) been incorporated into your ESC regulations?	No	Ordinance last amended in 1998. The new law raises fines to \$2,500 per day, and increases penalties for the most serious violations to \$25,000 per day. Also provides local governments with the authority to restore land that has suffered serious erosion and requires the responsible parties to pay the bill. The new law also gives the state authority to review and help improve the soil erosion programs of local governments.

## Sanitary Sewer Planning and Infrastructure

<b>I. Sanitary Sewer Planning and Infrastructure</b>		
A. Plans and Policies:		
1. Does the Master Plan address sanitary sewer planning?	Yes	Provides a Sanitary Sewer Map. The plan also concludes that a controlled sewer district could ensure the Township would maintain its rural character (Pg. 42). It also includes a policy that states that public utility extensions shall be permitted only if consistent with the Township's goals concerning protection fo the natural environment. All such extensions shall not encourage sprawl.
2. If yes, does the Master Plan tie sanitary sewer planning to protection of the health, safety and welfare of residents?	Yes	A Plan policy states that sewer extensions will only be installed in more rural parts of the Township to protect the health, safety and welfare of residents.
3. If yes, does the Master Plan address the following:		
a. Has the community delineated a Sewer Service Area?	No	But the Master Plan calls for development of sewer and water service area maps.
b. Has the Sewer Service Area been mapped, including all the facilities in the system (such as manholes, pipes, etc.)?	N/A	
c. Is the map to be used in zoning decisions?	N/A	Although, the Master Plan calls for using a sewer service area in zoning decisions.
4. Additional information provided by the community/plan:		Another policy states that all new development shall be reviewed in terms of compliance with the Stormwater Management Policy and Program Plan to preserve the natural drainage functions of the Township's water resources.

<b>II. Septic Systems</b>		
A. Plans and Policies:		
1. Does the Master Plan identify areas that are suitable and unsuitable for septic systems?	No	Although the Plan does state that higher densities should only be in areas where sewer and water service are available.
2. Does the Master Plan state that community involvement in placement and maintenance of septic systems is critical to the health, safety and welfare of residents?	No	
B. Development / Redevelopment Regulations:		
1. Are regulations that pertain to septic systems coordinated with the County's regulations?	No	
2. Does the Zoning Ordinance require that a septic system location be at least 100 feet from a lake, wetland, stream, or other water feature?	No	
3. Does the Zoning Ordinance specify a minimum isolation distance from residential and community wells?	No	
<b>III. Minimizing Inflow</b>		
A. Development / Redevelopment Regulations:		
1. Does the community prohibit connecting downspouts to the storm water system?	No	
2. Does the community have a program to identify and disconnect footing drains from sanitary sewer lines?	No	
<b>IV. Illicit Discharge Elimination</b>		
A. Plans and Policies:		
1. Has the community identified and/or mapped the community's drainage system, including all points of discharge and locations of illicit discharges to the drainage system?	Yes	The Township has submitted an Illicit Discharge Elimination Plan to the MDEQ which will identify locations of illicit discharges. The County will also implement an IDEP to its drains located within the Township.
2. Does the community have a program for identifying illicit discharges, and eliminating them?	Yes	
3. Does the community have a program to identify sanitary sewer or septic systems that are seeping into the storm water system, surface waters or groundwaters?	Yes / No	The Township has a sewer cleaning program that is performed approximately 150 days a year. Seepage from sanitary sewers are inspected at this time.
<b>Groundwater</b>		
<b>I. Mapping</b>		
A. Plans and Policies:		
1. Do Master Plan goals call for the identification and mapping of groundwater recharge areas?	No	Much of the Township is served by the Detroit Water System, although several areas of the community depend on drinking water wells.
<b>II. Groundwater Protection</b>		
A. Plans and Policies:		
1. Does the Master Plan recognize the importance of the groundwater to the health, safety and welfare of its residents?	No	
2. Does the Master Plan identify groundwater as an important natural resource, and call for its protection?	No	
B. Development / Redevelopment Regulations:		
1. Is ground water considered in the zoning designations of parcels?	No	
2. Are there additional requirements for site plan submittals in groundwater recharge areas?	N/A	

<b>III. Wellhead Protection</b>		
A. Plans and Policies:		
1. Does this community have municipal well fields?	No	
2. If yes, has the community done the following:		
a. Identified the area that contributes to the community's water supply?	N/A	
b. Identified sources of contamination within this area?	N/A	
c. Developed methods to cooperatively manage the area and minimize any threats to the public water supply?	N/A	

**Greenways**

<b>I. Greenway Plan</b>		
A. Plans and Policies:		
1. Does the community have a greenway plan or support greenways through its Master Plan or Recreation Master Plan?	Yes/No	The community has a safety path plan that is intended to provide safe travel paths for alternative methods of transportation. They also support development of the PollyAnn trail and Paint Creek Trail. However, preservation of "greenways" for environmental purposes is not mentioned.
2. If yes, does this plan do the following:		
a. Identify greenways as important natural transportation corridors for wildlife, and for the protection of other natural features?	No	
b. Connect many natural areas within the community?	Yes	Concentrates on connecting recreation area, which include important natural features.
c. Connect the community's greenway plan with adjacent communities', County's or regional greenway plans?	Yes	Through support of the Polly Ann Trail and Paint Creek Trail.

**Habitat Preservation**

<b>I. Natural Area Preservation / Restoration</b>		
A. Plans and Policies:		
1. Does the Master Plan call for preservation of natural areas for wildlife habitat protection?	Yes	Identifies five top ranked MNFI sites within the Township that should be preserved through land use controls and preservation plan alternatives.
2. Does the Master Plan link habitat preservation to protection of the health, safety and welfare of residents through natural resource preservation?	No	
3. Has the community identified high quality natural areas to be preserved?	Yes	MNFI areas are ranked and mapped.
4. Does the community have a plan to protect the high priority areas?	No	Not specifically, except through application of existing ordinances.
<b>II. Native Plant Species</b>		
A. Plans and Policies:		
1. Does the Master Plan recognize the importance of native vegetation in the protection of vital air, land and water resource quality, to buffer air and noise pollution, preserve wildlife habitat, and preserve aesthetic values and the community's beauty?	No	Although the term "native species" is used in descriptions of several natural features.
B. Design Standards:		

1. Do the Design Standards specify the use of native plant species in the storm water system to help reduce storm water velocities, filter runoff and provide additional opportunities for wildlife habitat?	No	

## Wetland Preservation

<b>I. Inventory</b>		
A. Plans and Policies:		
1. Has the community compiled and mapped a wetland inventory?	Yes	Both in the Master Plan and the Wetlands Ordinance.
2. Are identified wetlands categorized by whether or not they are suitable for storm water storage?	No	Not in the Master Plan. However, the Master Plan refers to the Stormwater Management Ordinance which states that "high-quality" wetlands should be identified and protected from pollutant-laden runoff.
<b>II. Wetlands Protection</b>		
A. Plans and Policies:		
1. Does the Master Plan recognize the importance of wetlands, and the functions they play in protecting residents' health, safety and welfare from problems such as flooding and poor water quality?	Yes	
2. Does the Master Plan call for the protection of wetlands within an ecosystem context (protecting adjacent uplands, waterways, and vegetated buffers as well)?	Yes/No	But the Township Master Plan references the preservation of nature features as a goal.
B. Development / Redevelopment Regulations:		
1. Has the community adopted a local wetlands ordinance that protects wetlands less than five acres in size?	Yes	
2. Is this ordinance coordinated with the State's wetlands regulations?	Yes	
3. <i>Additional information provided by the Community/Plan:</i>		The Stormwater Management Ordinance provides standards regarding stormwater runoff to wetlands to protect the wetland and water quality, and limit water quantity.

## Woodlands Preservation

<b>I. Inventory</b>		
A. Plans and Policies:		
1. Has the community conducted a woodlands inventory and mapped this information?	Yes	In the Master Plan.
<b>II. Woodlands Protection</b>		
A. Plans and Policies:		
1. Does the Master Plan recognize the importance of woodlands to protect any of the following: water, air and soil quality, to buffer air and noise pollution, to moderate local climate and storm hazards, to preserve wildlife habitat, and to preserve aesthetic values and community beauty?	Yes	The Plan recounts the benefits of woodlands that are described in the Woodlands Protection Ordinance.
2. Does the Master Plan recognize the importance of woodlands for storm water infiltration, thus reducing flooding and minimizing water pollution?	Yes	It refers to provisions in the Woodlands Protection Ordinance, which identifies woodlands as important in soil erosion control, which protect surface waters from excessive sedimentation.

3. Does the Master Plan identify woodlands as an important landscape feature that protects the health, safety and welfare of residents?	Yes	It doesn't specifically say "health, safety and welfare" but it does talk about how woodlands improve air quality, conserve energy, and provide wildlife habitat.
<b>B. Development / Redevelopment Regulations:</b>		
1. Has the community adopted a local woodlands or tree protection ordinance?	Yes	
2. Are woodlands defined in a broad manner so that existing trees and remnant woodlands are also protected?	Yes/No	It discusses trees and identifies protected woodlands on a map, but does not define a "woodland" to include understory and ground layer plants.
3. Does the ordinance require replacement of trees that are removed?	Yes	If the tree is outside of the building envelope and exempt areas.
4. <i>Additional information provided by the Community/Plan:</i>		The Landmark Tree list includes "Norway Maples" as a tree worthy of preservation once it reaches a certain height. We would recommend removing this species from the list, as it is an aggressive invasive plant that will take over woodland areas.

**Stream Corridors and Flood Plains**

<b>I. Stream Corridors</b>		
<b>A. Plans and Policies:</b>		
1. Does the Master Plan indicate the importance of any of the following: riparian buffers to assist in flood control, protect the streambank from erosion, remove pollutants from storm water runoff, provide food and habitat for wildlife, prevent sediment from settling in the water course, provides tree canopy to shade streams, and promote desirable aquatic organisms, scenic value and recreational opportunities?	No	The Master Plan does not discuss riparian buffers.
2. Does the Master Plan state that protection of stream corridors is important in promoting the health, safety and welfare of residents through flood control, and water quality and riparian corridor preservation?	Yes/No	Doesn't specifically say "health, safety and welfare", but does talk about preserving surface and groundwater quality.
<b>B. Development / Redevelopment Regulations:</b>		
1. Are regulations coordinated with regulations protecting County drains?	No	Stream corridors are mapped in conjunction with wetlands.
2. Does the community require naturally-vegetated buffers along drainageway corridors?	Yes/No	Only within the PUD requirements, which require a 25' minimum buffer adjacent to water features, and allow trails, observation decks, and the like to be constructed within the setback for passive enjoyment of nature.
3. Does the community restrict development adjacent to stream corridors to those which do any of the following: offer no danger of topographical disturbance to the corridor, degradation to water quality, increased runoff, sedimentation, stream channel alterations, or degradation of dependent, non-hydrologic resources (i.e. flora and fauna)?	No	
<b>II. Flood Control</b>		
<b>A. Plans and Policies:</b>		

1. Does the Master Plan identify floodplain protection as important for any of the following to promote the health, safety and welfare of residents: flood control, stream bank protection, pollutant filter, wildlife habitat, reduce sedimentation, shade watercourse and provide scenic value and recreational opportunities?	No	The Plan has a section titled "Wetlands and Floodplains," but there is no discussion about the importance of floodplain protection. The Plan does mention State legislation Part 31, (formerly the Floodplain Regulatory Authority), but simply describes the provisions of this law.
2. Does the community call for coordination of their efforts to protect the floodplain with adjoining communities and the County?	No	
<b>B. Development / Redevelopment Regulations:</b>		
1. Does the community participate in the National Flood Insurance Program?	No	
2. If yes, does the community have an overlay zone or other ordinance language that protects floodplains from undesirable development?	N/A	
3. Do the community's floodplain regulations address the following:		
a. Provide for assessing the impacts of flood management projects on water quality?	N/A	
b. Provide for adding BMP's to existing projects?	N/A	

### Capital Improvement Plan

<b>I. Capital Improvement Plan</b>		
<b>A. Plans and Policies:</b>		
1. Does the community have a Capital Improvement Plan?	No	The Township does not have a separate capital improvement plan. Only the General Capital Improvement Fund which projects about 2 years out.
2. If yes, does the Master Plan link the Capital Improvement Plan with the protection of the health, safety and welfare of residents?	N/A	
3. If a Capital Improvement Plan is in place, does the plan:		
a. Include policies related to natural resource protection?	N/A	
b. Include standards as the basis for design of storm water and sanitary systems?	N/A	
c. Include capital improvement for installation, maintenance and replacement of storm water utilities?	N/A	
d. Include capital improvement for installation, maintenance and replacement of sanitary sewer utilities?	N/A	
e. Call for the use, maintenance and replacement of storm water BMP's?	N/A	

### Watershed Issues

<b>I. Watershed Activities</b>		
<b>A. Plans and Policies:</b>		
1. Does the Master Plan identify the watershed(s) in which the community is located?	Yes	
2. Does the Master Plan call for protection of watershed resources in order to protect the health, safety and welfare of residents?	Yes/No	Doesn't specifically say "health, safety and welfare", but does talk about preserving surface and groundwater quality.

### Public Education

<b>I. Public Education</b> (Including Phase II Requirements NOT mentioned previously)		

A. Plans and Policies:		
1. Does the community have a system in place to distribute environmental education information?	Yes	They have submitted a Public Education Plan to MDEQ.
2. Has the community encouraged residents to report illicit discharges or improper disposal of materials into storm drains or natural water bodies?	Yes/No	This activity is part of the IDEP, and will be implemented by the Oakland County Drain Commissioner's Office.
3. Has the community educated commercial, industrial and institutional owners and tenants on how to reduce significant storm water impacts?	Yes/No	The community is planning on doing this when the PEP is implemented.

## Pollution Prevention and Housekeeping Practices

<b>I. Storm Water System Maintenance</b>		
A. Plans and Policies:		
1. Does the community have a program in place to regularly clean out, maintain and/or inspect structural controls (such as catch basins, vegetated swales, infiltration basins, sedimentation basins, etc.)?	Yes	But for Township-owned properties only. The Township will clean out privately-owned facilities and bill the owner if the owner doesn't take care of the problem.
2. Does the community have a program that labels outfall structures that discharge runoff to natural systems?	Yes	This will be conducted when the IDEP is implemented.
<b>II. Roadways</b>		
A. Plans and Policies:		
1. Does the community have jurisdiction over streets?	No	
2. If yes,		
a. Does the community sweep the streets monthly or more often in high construction areas?	N/A	
b. Does the community evaluate the amount of salt and/or sand that is applied to its roads in the winter?	N/A	
c. Does the community provide leaf collection in the fall?	N/A	
<b>III. Public Facilities Maintenance</b>		
A. Plans and Policies:		
1. Does your community have a maintenance building?	Yes	For the Building and Grounds Department
2. If yes, does the following occur:		
a. Confirm that floor drains are connected to a sanitary sewer, or sealed?	Yes	Sealed
3. Does the community maintain its own vehicles?	Yes/No	Some are and some aren't.
4. If yes, is a regular schedule of maintenance followed?	Yes	
5. Are vehicles or other equipment maintained and cleaned where fluids and/or cleaning water will not flow into the street, gutter, storm drain or water body?	Yes/No	All vehicles except for DPW vehicles are maintained/cleaned off site. No fluids are allowed to escape; however, because the DPW vehicles are cleaned in a stall with a floor that has grates.
<b>IV. Landscaping Practices</b>		
A. Plans and Policies:		
1. Does the community have a schedule of landscape maintenance practices for municipal property?	Yes	
2. Are employees trained on the proper application of chemical pesticides, herbicides and fertilizers?	Yes	The Township hires a contractor to do fertilizing, etc.
3. Are soils tested on municipal property before fertilizers are applied?	No	
4. Does the community use native vegetation in landscaping their properties?	Yes	
5. Does the community encourage landscaping with native plant species throughout the community?	No	The Township generally tries to encourage the use of native landscaping on an informal basis. However a policy to this regard is not included in the documents. In addition, Goldenrod and grasses 12" or taller are listed in the Noxious Weed Ordinance.

<b>The Development Review Process</b>		
<b>I. Site Plan Review</b>		
A. Development / Redevelopment Regulations:		
1. Is the review process coordinated with the receipt of applicable County and State permits?	Yes	Conditions of the site plan review process.
2. Does the Zoning Ordinance require that developers preserve natural features, such as lakes, ponds, streams, floodplains and floodways, wetlands, woodlands, steep slopes, and natural drainage patterns to the fullest extent possible?	Yes	
3. Are BMP's required to be labeled and shown, in detail, on the site plan so that they can be reviewed for effectiveness during the site plan review process?	Yes	In the Stormwater Management & Erosion Control Ordinance (No. 92, Section 6.01 A.)
4. Is a Soil Erosion and Sedimentation Control Plan required as part of the site plan review process?	Yes	
5. Are developers required to show all natural features on site plans, such as lakes, ponds, streams, rivers, floodplains and floodways, wetlands, woodlands, steep slopes, and natural drainage patterns?	Yes	The site plan rules require "Indication of site grading, drainage pattern, and other stormwater control measures." Also, the Stormwater Management Ordinance requires locating all watercourses and wetlands.
<b>II. Pre-Construction Meetings</b>		
A. Development / Redevelopment Regulations:		
1. Is the construction sequence required to start with a pre-construction meeting?	Yes	
<b>III. Construction</b>		
A. Plans and Policies:		
1. Does the community chart the progress of all construction projects to ensure that they are in compliance with the approved site plan?	Yes	Township has a flow chart describing the process.
B. Development / Redevelopment Regulations:		
1. Is a Pre-winter meeting required to assess whether the existing soil cover will provide adequate soil erosion and sedimentation control during winter months?	Yes/No	Weekly inspections are conducted by the Township Engineer regardless of whether or not active construction is occurring.