

New developments are an essential part of the City's future: they create the urban environment as well as influence social wellbeing, economic strength and environmental conditions. As a result, developers and their consultants are important partners in achieving the long term goals of the local community.

The purpose of the Conservation Development Guidelines are to assist landowners or developers and their consultants to create the most sustainable project possible. The overriding goal is to maintain or improve the hydrological functionality of the site for surface water quality protection, flood control and groundwater quality and quantity. The questions in the Guidelines are meant to advance the following sustainability objectives:

Greenspace: To provide for the preservation of greenspace as a nonstructural stormwater runoff and watershed protection measure. This greenspace can then become a recreational amenity to the residents of the community;

Land use: To provide flexibility in development and permitting processes to promote designs that are environmentally sensitive and efficient uses of the land;

Preservation: To preserve unique or sensitive natural resources such as ground water, floodplains, wetlands, streams, steep slopes, woodlands and wildlife habitat;

Site Design: To encourage placement of houses and structures on less environmentally sensitive soils, which will reduce the amount of infrastructure, including paved surfaces and utility easements necessary for residential development?

Unified Planning: To promote interconnected greenways and corridors throughout the community and contiguous greenspace with adjacent communities. Developments must be considered in conjunction with the City's Park Plan, Green Infrastructure Identification and the region's Comprehensive Plan for maximum coordination.

CONSERVATION DEVELOPMENT SITE EVALUATION GUIDELINES

Instructions

All applications for development permits are required to complete this form, according to the following steps:

- 1. Review and complete the Guidelines Form.
- 2. If needed, prepare a supplementary letter explaining, in more detail, how the proposed development incorporates these, or other, low impact development principles.
- 3. Submit the completed Guidelines Form and supplementary information as part of your pre-application information for a rezoning or Development Permit application, or as part of your design review materials. Staff will provide comments on your submitted materials.
- 4. Re-submit the above information, addressing comments received, with your formal rezoning or Development Permit application.
- 5. Your Guidelines Form and supporting materials will be forwarded to the Planning Department, the Planning and Zoning Commission, and attached to their report, which is forwarded to the City Council.

Applicants are encouraged to provide as much information as possible to assist City Council, staff and advisory bodies in their review of development proposals. The relevance of the Guideline's questions will depend on the nature and scope of the project.

The intent of the Guidelines is not to "pass" or "fail" proposals, but to assist applicants and the City in working together to develop high quality projects that are a benefit to the community.

Site Location:

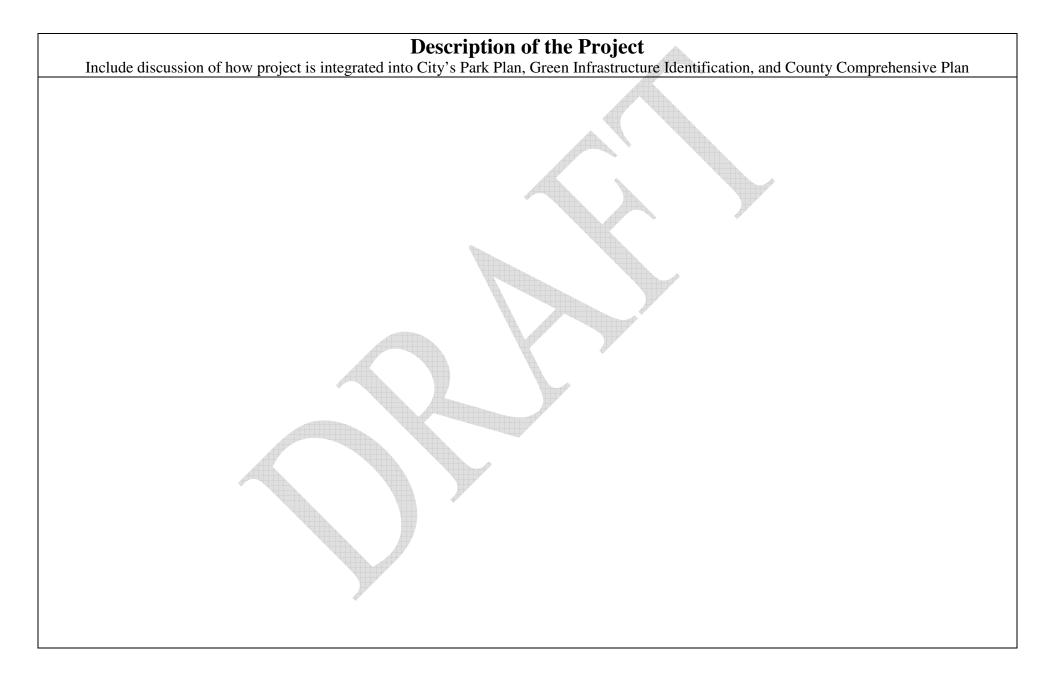
City	County	Section (1/4)	Township	Range	Street/Intersection

Developer Name	Address	Phone Number	Contact Name

Project information:

Development size (acres)	No. of Lots	Average lot size and range of lot sizes	Area of all lots (Acre)	Area of streets and sidewalks (Acre)	Area of open space* (Acre) & % of open
		(Sq. ft.)		` ,	space

^{*}Open Space-undeveloped land or common areas in a development reserved for parks, walking paths or other natural uses such as storm water management. Excludes utility and street right-of- ways.



SITE ASSESSMENT:

	3.7	N.T.	
Have the following studies	Yes	No	Comments
been performed and what			
are the results for the			
proposed development?			
FEMA floodplain review. Is any			
part of the property to be developed			
in the floodplain or floodway?			
Wetland delineation as identified			
in the National Wetlands Inventory			
(www.nwi.fws.gov). Site			
inspection may also be required to			
determine if non-listed wetlands are			
present.			
Storm calculations. Must			
demonstrate water quality			
protection and flood control		4	
protection, and show assumptions	4		
made during the design process			
addressing stormwater.		A	
Watershed analysis @ HUC 14			
level, identifying how development			
fits into the watershed as a whole.			
Topographic land survey showing			
pre- and post-development		A	
contours. Discuss how much			
change is to be made in the existing			
topography and how it improves			
the hydrologic functions.			
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SHOWER ORDER	Yes	No	Comments
Slopes greater than 15 percent. Are such slopes on site? What practices are being utilized to prevent erosion?			
Soil Analysis. Describe the soil types found on the property and any amendments necessary to improve the hydrologic functions			
Forested Areas Include discussion of the kind of tree species on site, are they native? How many and what kinds of trees are to be removed? What are plans for replanting trees and what species will be planted?			
Prairies, grasslands, grassy swales Are these resources on site and how will they be impacted by the development?			
Drainage ways, creeks, streams, rivers, etc Are these resources on site and how will they be impacted by the development?			

PROTECTING AND CREATING NATURAL LANDSCAPES & DRAINAGE SYSTEMS:

Is site development fitted to the topography and soil so	Yes	No	Comments
as to create the least potential for vegetation loss and site			
disturbance			
		1	
Does site plan avoid or minimize disturbance of existing	Yes	No	Comments
site features –or- provide for restoration or improved			,
condition of these existing site features			
Drainage ways and floodplains			
Wetlands			
Uplands			
Remnant habitats- which could be forests or prairie	4		
Open space management-open space should meet	Yes	No	Comments
following standards:			
Be of sufficient size to be hydrologically functional and			
serve as the green infrastructure for storm water			
management.			
Be as contiguous as possible to allow for proper			
maintenance and provide interconnection to open space			
within and adjoining the development			
Be free of structures that interfere with infiltration. If			
structures are proposed, what are they and what steps will be			
taken to maximize their permeability?			
Be directly accessible to the largest practical number of lots			
within the development	#		
Stress preservation and reintroduction of native plant			
species and provide for the amendment of the soil to			
improve infiltration rates			
Management plan describes how open space is to be			
maintained			
Designation of legal entity responsible for maintenance of			
open space			

LOT DESIGN STANDARDS

	Yes	No	Comments
Lots and buildings are optimally clustered together on less			
environmentally sensitive soils to minimize negative			
impacts on the natural, scenic and cultural resources of the			
site			
Setbacks for residential lot. What are they? The following			
are optimal for clustered developments:			
Front ≤ 20 feet		A	
Back \leq 25 feet		4	
Side ≤ 8 feet			

REDUCTION OF IMPERVIOUS SURFACES

	Yes	No	Comments
Street layout is efficient and reduces overall length			
requirement			
Street width. What is it? How is runoff from the street			
managed? The following are recommended:			
No parking expected – 16-18 feet wide			
Restricted parking – 22-24 feet wide			
Normal residential w/ parking – 24-26 feet wide			
Cul de Sac radius \leq 45 feet. Can center be used as a bio-			
retention area to capture street runoff?			
Parking ratio for single family residential ≤ 2			
Is shared parking promoted			
Driveway width	400		
One lane $- \le 9$ feet			
Two lane - ≤ 18 feet			
Sidewalks. Recommended:			
Required on one side only			
Maximum width of 5 feet in general pedestrian traffic			
area			

IMPLEMENTATION OF SUSTAINABLE STORM WATER MANAGEMENT TECHNIQUES

	J D I O I	LIVE VVI	TER MANAGEMENT TECHNIQUES
Are the following Low Impact Development practices	Yes	No	Comments
incorporated into the site? The development should use			
as many of these practices as necessary to accomplish			
effective storm water runoff management. The objective			
is to retain storm water on site to be infiltrated and			
cleansed and slow its release into nearby water bodies			
		4	
Bioretention cells-areas constructed to manage and treat			
stormwater runoff by using a conditioned planting soil bed		7	
and plant material to filter runoff stored in a swallow			
depression	-		
<u>Dry wells-</u> excavated pits that are backfilled with			
gravel/stone which are designed to retain and release			
rooftop runoff			
<u>Filter/buffer strips-</u> bands of close-growing vegetation			
planted so that runoff can be slowed and filtered before			
reaching a water body			
<u>Drainage swales-</u> low areas with slopes and gradients that			
collect and divert water from impervious surfaces and allow			
water to move to other infiltration based processes			
<u>Infiltration trenches-</u> depressional, landscaped area used to			
retain and infiltration stormwater			
Wetlands-land whose soils retain sufficient moisture to			
support aquatic or semi-aquatic plant life			
Ponds- used as an area to retain stormwater	497		
Rain gardens-depressional, landscaped areas near buildings			
or within lawns used to retain and infiltrate stormwater			
Riparian buffers-vegetative buffer on land at the bank of a			
river or other body of water designed to slow and infiltrate			
runoff approaching the river or body of water			

<u>Prairies-</u> an extensive, level or slightly undulating, mostly		
treeless tract of land, characterized by highly fertile soil and		
covered with native grasses and wildflowers. This		
vegetation has the ability to absorb and purify a great deal of		
water.		
Floodplain preservation -minimize the construction of		
roads, buildings, and other impervious structures within the		
floodplain		
<u>Permeable Pavement</u> -pavement. What percent is this of		
total pavement?		
Soil Quality Restoration-intentionally amending and		
modifying soil composition to improve its ability to absorb		
water and provide nutrients to vegetation.		
Disconnectiveness of impervious areas- intentionally		
breaking up large spans of imperious materials to allow for		
more absorption of water		