Appendix I

Gap Analysis

QUESTIONS	Troy	Renss	Notes	# Munis	# Attained	% who attained
Category I: Reduction of Impervious Cover	Cor	Cor				
Street width and length:						
1. What is the minimum pavement width allowed for streets in low density residential developments that have less than 500 daily trips, average daily trips (ADT)?		0	Troy: N/A	2	1	50%
*If your answer is **between 18-22 feet**, give yourself 1 point.*						
2. At higher densities are parking lanes allowed to also serve as traffic lanes (i.e., queuing streets)?	0	0		2	0	0%
If your answer is YES, give yourself 1 point.						
3. Do street standards promote the most efficient street layouts that reduce overall street length? (e.g. a grid plan)	0	0		2	0	0%
If your answer is YES, give yourself 1 point.						
Right-of-Way Width:	Cor	Cor				
4. What is the minimum right of way (ROW) width for a residential street?	0	1		2	1	50%
*If your answer is **less than 55 feet**, give yourself 1 point.*						
5. Does the code allow utilities to be placed under the paved section of the ROW?	1	0		2	1	50%
If your answer is YES, give yourself 1 point.						
Cul-de-Sacs:	Cor	Cor				
6. What is the minimum radius allowed for cul-de-sacs?	0	0		2	0	0%
*If your answer is **less than 35 feet**, give yourself 1 point.*						
*If your answer is between **35 feet to 45 feet**, give yourself .5 point.*						
7. Can a landscaped island be created within the cul-de-sac?	1	0		2	1	50%
If your answer is YES, give yourself 1 point.						
8. Are alternative turnarounds such as "hammerheads" allowed on short streets in low density residential developments?	0	0		2	0	0%
If your answer is YES, give yourself 1 point.						
Sidewalks and Curbs	Cor	Cor				
9. What is the minimum sidewalk width allowed in the municipality?	0	0		2	0	0%
_____ feet						
If your answer is **4 feet or less**, give yourself 1 point.						
10. Are sidewalks always required on both sides of residential streets?	1	1		2	2	100%
If your answer is NO, give yourself 1 point.						
11. Are sidewalks allowed to be sloped to drain to the front yard instead of the street?		0	Troy: N/A	2	1	50%
If your answer is YES, give yourself 1 point.						
12. Can alternate pedestrian networks be substituted for sidewalks (e.g., trails through common areas)?		0	Troy: N/A	2	1	50%
If your answer is YES, give yourself 1 point.						
Driveways	Cor	Cor				
13. What is the minimum driveway width specified in the municipality?	0	0		2	0	0%
_____ feet						
For each that apply give yourself a point:						
If for one lane driveways **9 feet or less** give yourself 1 point.						
If for two-lane driveways **18 feet** give yourself 1 point. *(Max 2 points)*						
14. Can pervious materials be used for single family home driveway (e.g., grass, gravel, porous pavers, etc.)?	1	0		2	1	50%
If your answer is YES, give yourself 1 point.						
15. Can a "two track" design be used at single family driveways? (grass in between)	1	0		2	1	50%
If your answer is YES, give yourself 1 point.						
16. Are shared driveways permitted in residential developments?	0	0		2	0	0%
If your answer is YES, give yourself 1 point.						
17. Are driveways allowed to be sloped to drain to yard areas instead of the street?	0	0		2	0	0%
If your answer is YES, give yourself 1 point.						
Parking Ratios	Cor	Cor				
18. What is the minimum parking ratio for a professional office building (per 1,000 ft of gross floor area)?	0	0	**Troy: 3 spaces**	2	0	0%
_____ spaces						
If your answer is **less than 3.0 spaces** give yourself 1 point.						
19. What is the minimum required parking ratio for shopping centers (per 1,000 ft gross floor area)?	0	1	**Troy: 5 spaces**	2	1	50%
_____ spaces						
If your answer is **4.5 spaces or less**, give yourself 1 point.						
20. What is the minimum required parking ratio for single family homes (per home)?	1	1		2	2	100%
_____ spaces						
If your answer is **less than or equal to 2.0 spaces** give yourself 1 point.						
Shared Parking	Cor	Cor				
21. Is the use of shared parking arrangements permitted?	0	1		2	1	50%
If your answer is YES, give yourself 1 point.						
22. Are model shared parking agreements provided? (i.e. plowing and maintenance	0	0		2	0	0%
If your answer is YES, give yourself 1 point.						
23. Are parking ratios reduced if shared parking arrangements are in place?	0	0		2	0	0%
If your answer is YES, give yourself 1 point.						
24. If mass transit is provided nearby, is the parking ratio reduced?	0	0		2	0	0%
If your answer is YES, give yourself 1 point.						
Parking Lot Design Standards	Cor	Cor				
25. What is the minimum stall width for a standard parking space?	1	1		2	2	100%
_____ feet						
If your answer is **9 feet or less**, give yourself 1 point.						
26. What is the minimum stall length for a standard parking space?	1	1		2	2	100%
_____ feet						
If your answer is **18 feet or less**, give yourself 1 point.						
27. Are at least 30% of the spaces at larger commercial parking lots required to have smaller dimensions for compact cars?	0	0		2	0	0%
If your answer is YES, give yourself 1 point.						
28. Can pervious materials be used for spillover parking areas?	1	0		2	1	50%
If your answer is YES, give yourself 1 point.						
29. Is a minimum percentage of a parking lot required to be landscaped?	0	1		2	1	50%
If your answer is YES, give yourself 1 point.						
30. Is the use of bioretention areas and other stormwater practices within landscape areas or setbacks allowed?	1	0		2	1	50%
For each that apply give yourself a point:						
If your answer is YES, give yourself 1 point.						
If the practice is put to use, give yourself 1 point. (Max 2 points)						
31. Are there any incentives for developers to provide parking within multi-level garage rather than surface parking lots?	0	0		2	0	0%
If your answer is YES, give yourself 1 point.						
Subtotal	4	8	0			
% score of possible points (33)	12	24				

QUESTIONS	Troy	Renss	Notes	# Munis	# Attained	% who attained
Category II: Preservation of Natural Features and Conservation Design	**Cor**	**Cor**				
Community Planning for Natural Areas						
32. Does the local or institutional comprehensive plan contain a natural resource protection element with goals calling for preservation of identified critical natural resource areas? (steep slopes, wildlife habitat, drinking water source areas including aquifer recharge areas)						
__ Steep slopes	0	0		2	0	0%
__Wildlife habitat	0	0		2	0	0%
__ Drinking water source areas including aquifer recharge areas	0	0		2	0	0%
Locating Sites in Less Sensitive Areas	**Cor**	**Cor**				
33. Does the municipality have a floodplain management ordinance or local law that prevents new building and filling in the 100-year floodplain (i.e. more stringent than a Flood Damage Prevention Law, commonly adopted to meet minimum requirements. If your answer is YES, give yourself 1 point.	0	1		2	1	50%
34. Does the municipality have a steep slope, grading, or erosion and sediment control law that requires avoidance of development on steep slope areas and minimizes grading and flattening of hills and ridges? If your answer is YES, give yourself .5 point for each of the following included, for a possible 1.5 points.						
__Steep slope	0	0		2	0	0%
__Grading	0	0		2	0	0%
__Erosion and sediment control law	0	0		2	0	0%
(Check one or both) Are steep slopes defined with angle of repose ☐ or percentage of slope ☐ ?						
35. Does the municipality require avoidance and protection of highly erodible soils through a steep slope, grading, or erosion and sediment control law? If your answer is YES, give yourself .5 point for each of the following included, for a possible 1.5 points.						
__Steep slope	0	0		2	0	0%
__Grading	0	0		2	0	0%
__Erosion and sediment control law	0	0		2	0	0%
36. Does the municipality provide incentives for development on previously altered sites or in designated priority growth areas? (clarify whether the redevelopment chapter of the stormwater manual counts here. If your answer is YES, give yourself .5 point for each of the following included, for a possible 1 point.						
__Previously altered sites	0	0		2	0	0%
__Designated priority growth areas	0	0		2	0	0%
Preservation of Undisturbed Areas	**Cor**	**Cor**				
37. Does the municipality require that natural conservation areas are delineated and defined before site layout and design are conducted and provided during preliminary site plan review? If your answer is YES, give yourself 1 point.	0	1	**Troy: N/A**	2	1	50%
38. Does the municipality require that conservation areas and native vegetation be protected in an undisturbed state during the design, construction and occupancy stages? If your answer is YES, give yourself 1 point.	0	0		2	0	0%
Stream and Wetland Buffers	**Cor**	**Cor**				
39. Does the municipality have a stream buffer ordinance or local law? If yes, and it is for all streams give yourself 1 point. If yes, but it is only for some streams give yourself .5 points.	**1**	**1**		2	2	100%
40. If so, what is the minimum buffer width? _____ feet. If your answer is **100 feet or more**, give yourself 2 points. If your answer is **between 50-100 feet**, give yourself 1 point.	**1**	**0**		2	1	50%
41. Is expansion of the buffer to include freshwater wetlands, steep slopes or the 100-year floodplain required? If your answer is YES, give yourself .5 point for each of the following included, for a possible 1.5 points.	0	0		2	0	0%
__Freshwater wetlands	**0**	**0**		2	0	0%
__Steep slopes	**0**	**0**		2	0	0%
__ The 100-year floodplain	**0**	**0**		2	0	0%
42. Does the ordinance also regulate intermittent streams? If your answer is YES, give yourself 1 point.	**1**	**0**		2	1	50%
43. Does the municipality have a local wetland buffer ordinance or local law? If your answer is YES, give yourself 1 point.	**0**	**0**		2	0	0%
44. In the wetland ordinance, what is the minimum regulated wetland size? _____ acres. If you answer is all wetlands regardless of size give yourself 1 point. If your answer is between 0-5 acres, give yourself .5 point.	**0**	**0**		2	0	0%

QUESTIONS	Troy	Renss	Notes	# Munis	# Attained	% who attained
45. What is the minimum buffer width for wetlands?						
_____ feet	**0**	**0**		**2**	0	0%
If your answer is between 50-100 feet, give yourself 1 point.						
If your answer is 100 feet or more, give yourself 2 points.						
46. Do the stream and wetland ordinances specify low impact uses in the buffer that are compatible with conservation such as passive recreation?	**0**	**0**		**2**	0	0%
If your answer is YES, give yourself.**5 point for wetland buffers and .5 point for stream buffers** for a possible total of 1 point.						
47. Do stream and wetland buffer ordinances/local laws specify that at least part of the buffer be maintained with native vegetation?	**0**	**0**		**2**	0	0%
48A. Do the ordinances/local laws specify enforcement mechanisms? If your answer is YES, give yourself .5 points	**0**	**0**		**2**	0	0%
48B. Do the ordinances/local laws specify education mechanisms? If your answer is YES, give yourself .5 points	**0**	**0**		**0**	0	0%
Open Space and Flexible Design	**Cor**	**Cor**				
49. Does the municipality/other public institution have open space design, conservation subdivision or cluster development provisions in local zoning or subdivision laws or construction policies?						
If your answer is YES, give yourself .5 point for each of the following included, for a possible 1.5 points. If your answer is NO, skip to question 51 under open space						
__Open space design	**0**	**0.5**		**2**	1	50%
__Conservation subdivision	**0**	**0.5**		**2**	1	50%
__Cluster development provisions	**0**	**0.5**		**2**	1	50%
50. Are critical natural resource areas deducted from the total acreage count that is used to calculate density? (e.g. on a 50 acre site with 10 acres of natural resources; such as wetlands and/or forests, only 40 acres can be used to calculate density under	**0**	**1**		**2**	1	50%
If your answer is YES, give yourself 1 point.						
Open Space Management	**Cor**	**Cor**				
51. Does the municipality have enforceable requirements to establish agreements that can effectively manage open space?	**0**	**0**		**2**	0	0%
If your answer is YES, give yourself 1 point.						
52. Does a minimum percentage of open space have to be managed in a natural condition?	**0**	**0**		**2**	0	0%
If your answer is YES, give yourself 1 point.						
53. Are allowable and unallowable uses for open space in residential developments defined?	**0**	**0**		**2**	0	0%
If your answer is YES, give yourself 1 point. *If YES, where are the definitions?*						
54. Does your ordinance permit management of open space by a third party using land trusts or conservation easements?	**0**	**0**		**2**	0	0%
If your answer is YES, give yourself 1 point.						
Clearing and Grading	**Cor**	**Cor**				
55. Is there an ordinance or local law that requires erosion and sediment control on development sites using the design criteria in "New York Standards and Specifications for Erosion and Sediment Control"?	**1**	**0**		**2**	1	50%
If your answer is YES, give yourself 1 point.						
56. Is there an ordinance that requires buffer zones be maintained between development and land preservation areas?	**0**	**0**		**2**	0	0%
If your answer is YES, give yourself 1 point.						
Tree and Forest Conservation	**Cor**	**Cor**				
57. If forests are present at residential development sites, do stands have to be preserved?	**0**	**0**		**2**	0	0%
If your answer is YES, give yourself 1 point.						
58. Are the limits of disturbance required to be shown on construction plans adequate for preventing clearing of trees and natural vegetative cover during construction?	**1**	**0**		**2**	1	50%
If your answer is YES, give yourself 1 point.						
59. Is there an ordinance or local law that requires forestry best-management practices for timber harvesting and tree cutting?	**0**	**0**		**2**	0	0%
If your answer is YES, give yourself 1 point.						
Conservation Incentives-financial	**Cor**	**Cor**				
60. Does the municipality have a local open space fund through bonding, real estate transfer tax, or other funding mechanism to encourage open space protection?	**0**	**0**		**2**	0	0%
If your answer is YES give yourself 1 point. *If YES, describe the mechanism.*						
61. Does the municipality use local, county, state, federal or private open space funding for purchase or transfer of development rights programs?	**0**	**0**		**2**	0	0%
If your answer is YES give yourself 1 point. *If YES, describe the mechanism.*						
Subtotal	**5**	**5.5**				

Stormwater Coalition Scorecards-Summary DataInventory of Municipal Codes for Green Infrastructure
(As of February, 2012)

ALL MS4s

QUESTIONS	Troy	Renss	Notes	# Munis	# Attained	% who attained
Category III: Design Elements for Stormwater Management						
Vegetated Open Channels	Cor	Cor				
62. Are curb and gutters required for most residential street sections?	0	1		2	1	50%
If your answer is <u>NO</u>, give yourself 1 point						
63. Does your ordinance encourage the use of dry swales, biofilters, or grass swales in lieu of gutters?						
If your answer is YES, give yourself .5 point for each of the following included, for a possible 1.5 points.						
__Dry swales	0	0		2	0	0%
__Biofilters	0	0		2	0	0%
__Grass swales	0	0		2	0	0%
Rooftop Runoff						
64. Can rooftop runoff permitted to be discharged to yard areas?	1	1		2	2	100%
If your answer is YES, give yourself 1 point.						
65. Do current grading or drainage requirements allow for temporary ponding of stormwater on front yards or rooftops?	1	0		2	1	50%
If your answer is YES, give yourself 1 point.						
66. Does your municipality have a program to disconnect roof top drains that lead into combined sewers?	1	0		2	1	50%
If your answer is YES give yourself 1 point and describe the mechanism						
Infiltration	Cor	Cor				
67. Do your municipality's Zoning and Subdivision regulations specifically permit green infrastructure practices including but not limited to the following practices. If your answer is YES, give yourself .5 point for each of the following included, for a possible 4 points or more if there are others.						
__Green roofs	0.5	0		2	1	50%
__Rain gardens	0.5	0		2	1	50%
__Stormwater planters	0	0		2	0	0%
__Porous & permeable pavement	0.5	0		2	1	50%
__Rain barrels and cisterns	0	0		2	0	0%
__Tree boxes	0.5	0		2	1	50%
__Downspout disconnect	0.5	0		2	1	50%
__Vegetated open swales	0	0		2	0	0%
__Other _____	0	0.5		2	1	50%
68. Does your municipality's stormwater management regulations and development codes allow off-site stormwater management, especially in infill and redevelopment areas. If your answer is YES, give yourself 1 point and describe how are offsite locations selected and prioritized.	0	0		2	0	0%
69. Is your municipality cooperating in developing regional approaches to stormwater management and watershed protection? If your answer is YES, give yourself 1 point.	1	1		2	2	100%

QUESTIONS	Troy	Renss	Notes	# Munis	# Attained	% who attained
Category IV: Promotion of efficient, compact development patterns and infill	Cor	Cor				
70. Have areas of the municipality or institutional property have been identified for higher density development based on existing infrastructure capacity, cost for providing new services and access.?	0	1		2	1	50%
71. Do local sewer and water capital improvement plans follow development policies established in local comprehensive plans or institutional policy and target areas with existing development/infrastructure?	0	1		2	1	50%
72. Capital improvement plans include infrastructure improvements (water, sewer, road, sidewalk upgrades) for identified brownfield and greyfield sites. If your answer is YES, give yourself 1 point.	0	1		2	1	50%
73. Does your ordinance permit a wide variety of housing types and sizes within infill areas to increase density. If your answer is YES, give yourself 1 point.	0	1		2	1	50%
74. Does your ordinance establish minimum lot coverage within infill areas to increase density? If your answer is YES, give yourself 1 point.	0	1		2	1	50%
75. Does your ordinance permit accessory dweiling units within infill areas to increase density? If your answer is YES, give yourself 1 point.	0	0		2	0	0%
76. Do local stormwater management regulations provide a requirement that reduces on-site management requirements for projects that decrease total imperviousness on previously developed sites? If your answer is YES, give yourself 1 point.	0	0		2	0	0%
77. Does your ordiannce permit and document streamlined permitting procedures to facilitate infill and brownfield sites? If your answer is YES, give yourself 1 point.	0	0		2	0	0%
78. Does your ordinance differentiate between previously undisturbed, adaptive reuse, and infill sites? If your answer is YES, give yourself 1 point.	0	0		2	0	0%
Subtotal	**0**	**5**	**0**			

	% score of possible points (9)		
	0	56	

Suggested Common "City" Gaps	Guideline / code / program
Category 1: Reduction of impervious cover	
3. Driveways	
13. What is the minimum driveway width specified in the municipality?	Code
14. Can pervious materials be used for single family home driveway (e.g., grass, gravel, porous pavers, etc.)?	Guideline
15. Can a "two track" design be used at single family driveways? (grass in between)	Guideline
16. Are shared driveways permitted in residential developments?	Guideline
17. Are driveways allowed to be sloped to drain to yard areas instead of the street?	Code
4. Shared Parking	
21. Is the use of shared parking arrangements permitted?	Guideline
22. Are model shared parking agreements provided? (i.e. plowing and maintenance)	Guideline
23. Are parking ratios reduced if shared parking arrangements are in place?	Code
24. If mass transit is provided nearby, is the parking ratio reduced?	Code
5.Parking Lot Design	
18. What is the minimum parking ratio for a professional office building (per 1,000 ft2 of gross floor area)?	Code
19. What is the minimum required parking ratio for shopping centers (per 1,000 ft2 gross floor area)?	Code
27. Are at least 30% of the spaces at larger commercial parking lots required to have smaller dimensions for compact cars?	Code
28. Can pervious materials be used for spillover parking areas?	Guideline
29. Is a minimum percentage of a parking lot required to be landscaped?	Guideline
30. Is the use of bioretention areas and other stormwater practices within landscaped areas or setbacks allowed?	Guideline
31. Are there any incentives for developers to provide parking within multi-level garages rather than surface parking lots?	Program
Category 2: Preservation of natural features and conservation design	
10. Locating Sites in Less Sensitive Areas	
34. Does the municipality have a steep slope, grading, or erosion and sediment control law that requires avoidance of development on steep slope areas and minimizes grading and flattening of hills and ridges?	Code
35. Does the municipality require avoidance and protection of highly erodible soils through a steep slope, grading, or erosion and sediment control law?	Code
Category 3: Design Elements for Stormwater Management	
12. Open Channels and Rooftop Runoff	
62. Are curb and gutters required for most residential street sections?	Code
63. Does your ordinance encourage the use of dry swales, biofilters, or grass swales in lieu of gutters?	Guideline
65. Do current grading or drainage requirements allow for temporary ponding of stormwater on front yards or rooftops?	Guideline
66. Does your municipality have a program to disconnect roof top drains that lead into combined sewers?	Program
Category 4: Promotion of efficient, compact development patterns and infill	
13. Density Incentives	
73. Does your ordinance permit a wide variety of housing types and sizes within infill areas to increase density.	Program
74. Does your ordinance establish minimum lot coverage within infill areas to increase density?	Code
75. Does your ordinance permit accessory dwelling units within infill areas to increase density?	Guideline
14. Infill	
76. Do local stormwater management regulations provide a requirement that reduces on-site management requirements for projects that decrease total imperviousness on previously developed sites?	Code
77. Does your ordinance permit and document streamlined permitting procedures to facilitate infill and brownfield sites?	Program
78. Does your ordinance differentiate between previously undisturbed, adaptive reuse, and infill sites?	Code