Environmental Activities of the City Planning Division

Gary Wright

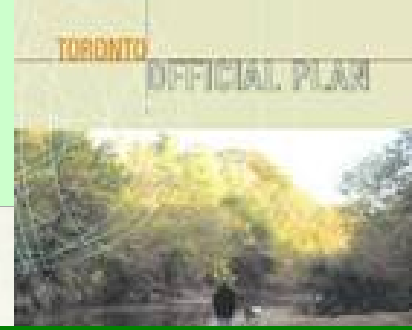
Chief Planner and Executive Director

Parks and Environment Committee

October 17, 2008

TORONTO City Planning

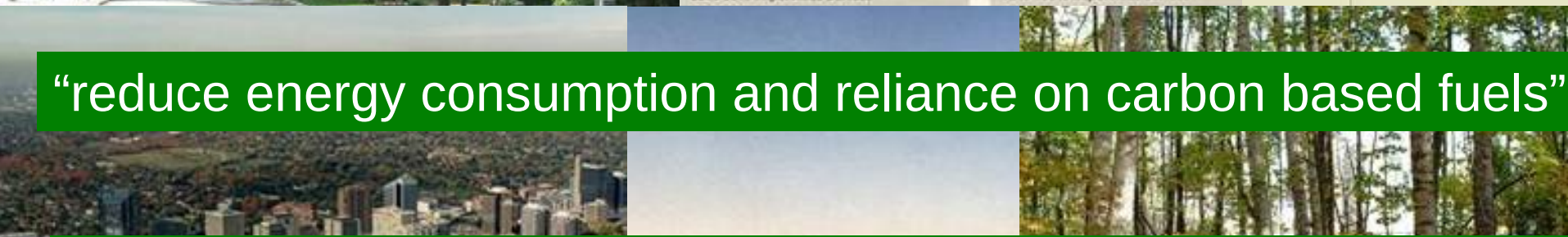
OFFICIAL PLAN chapter 3 Natural Environment



"manage stormwater where rain and snow fall"

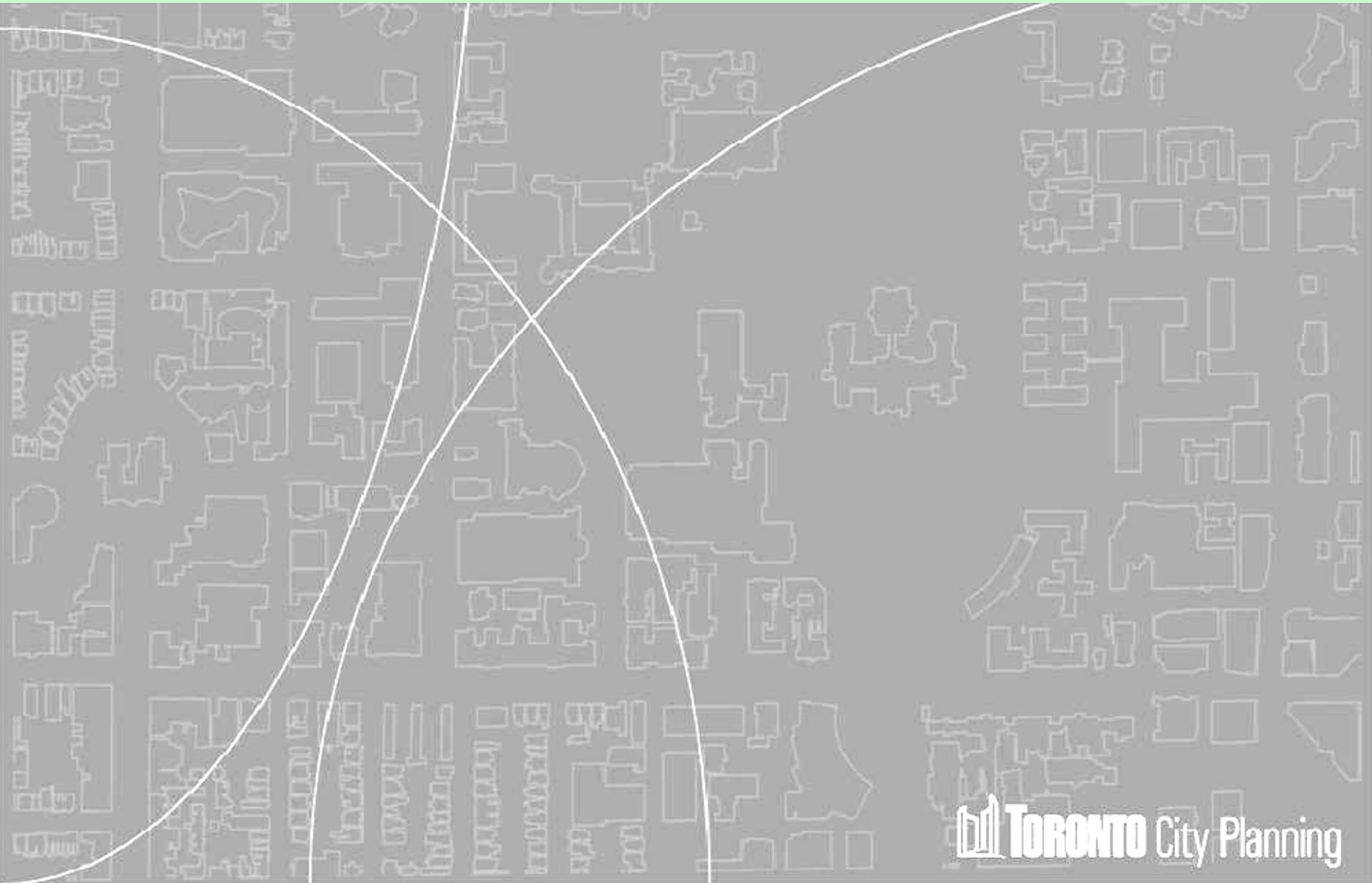
"protect the natural heritage system"

"reduce energy consumption and reliance on carbon based fuels"



"support innovative energy producing options, green industry and green building designs and construction"

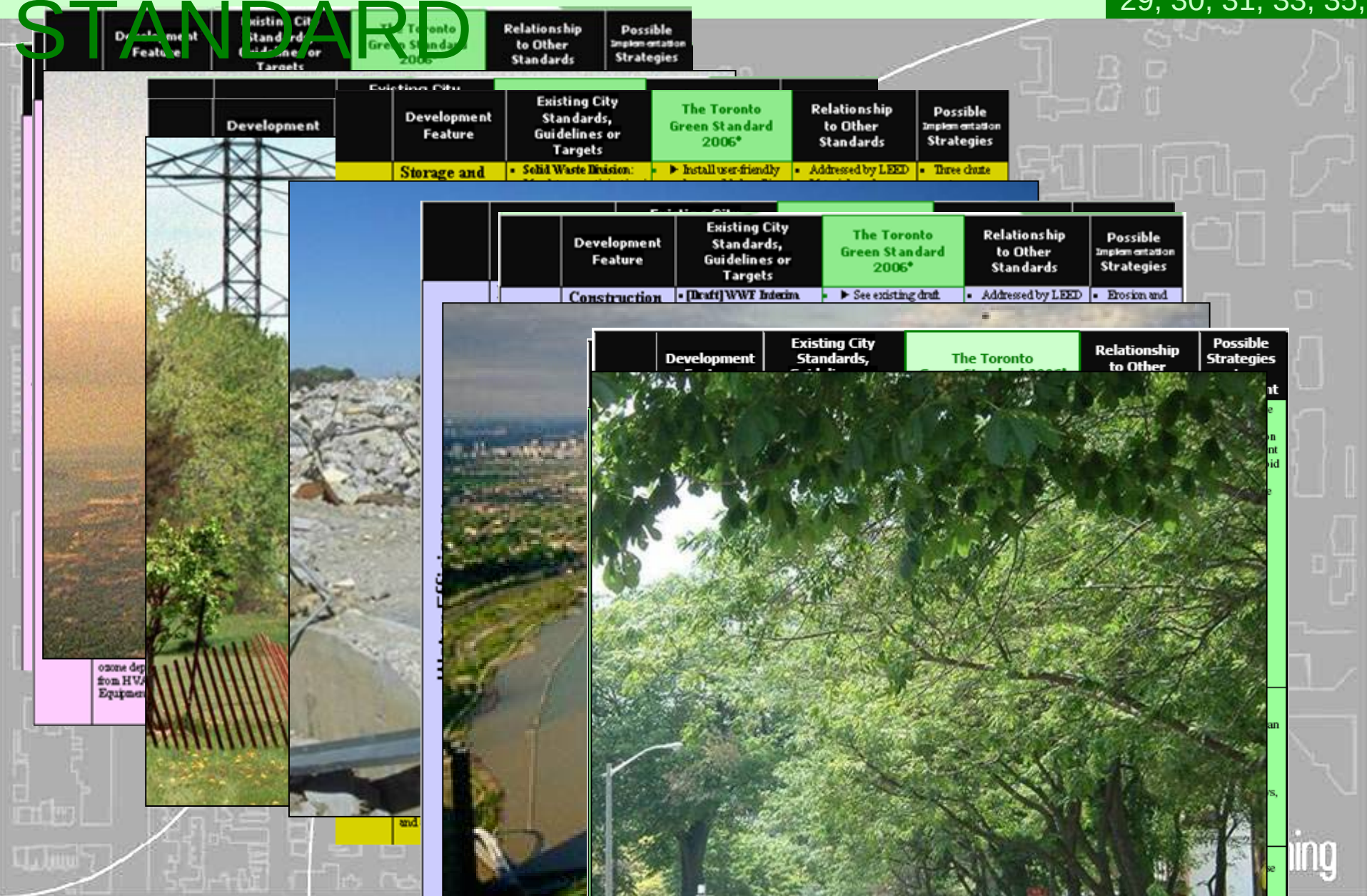
Major Environmental Initiatives



GREEN DEVELOPMENT STANDARD

OP 3.4.1, 3.4.1

EP 5, 8, 15, 22, 29, 30, 31, 33, 35,



Sustainable Transportation

OP 2.2.3(a-h)
EP 25, 26

TORONTO City Planning

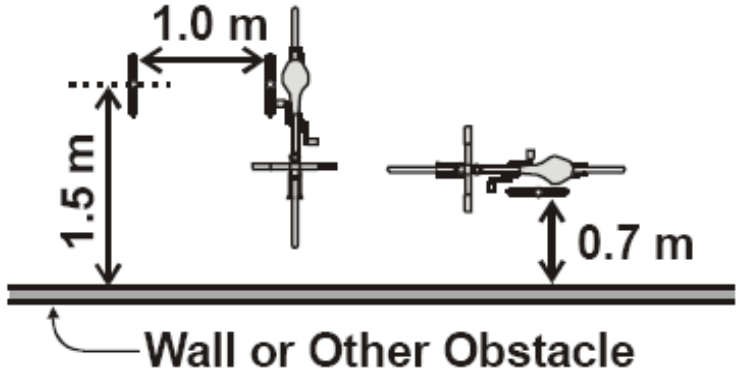
Sustainable Transportation

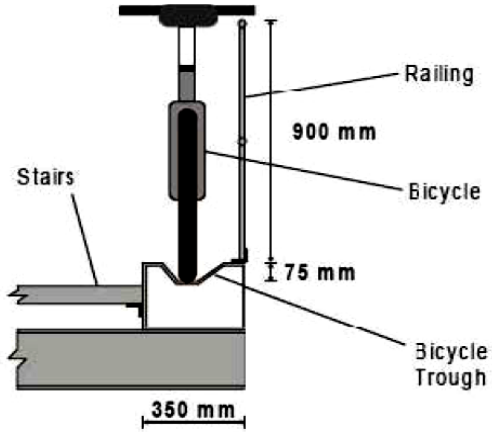
TORONTO City Planning

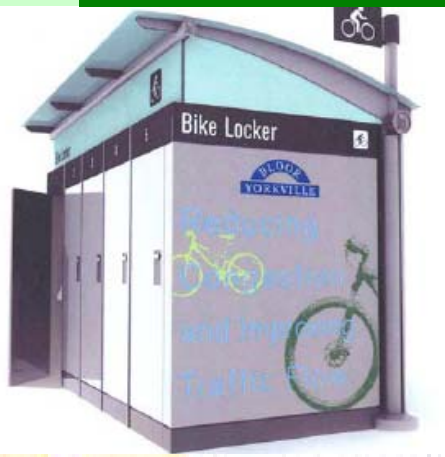
Sustainable Transportation

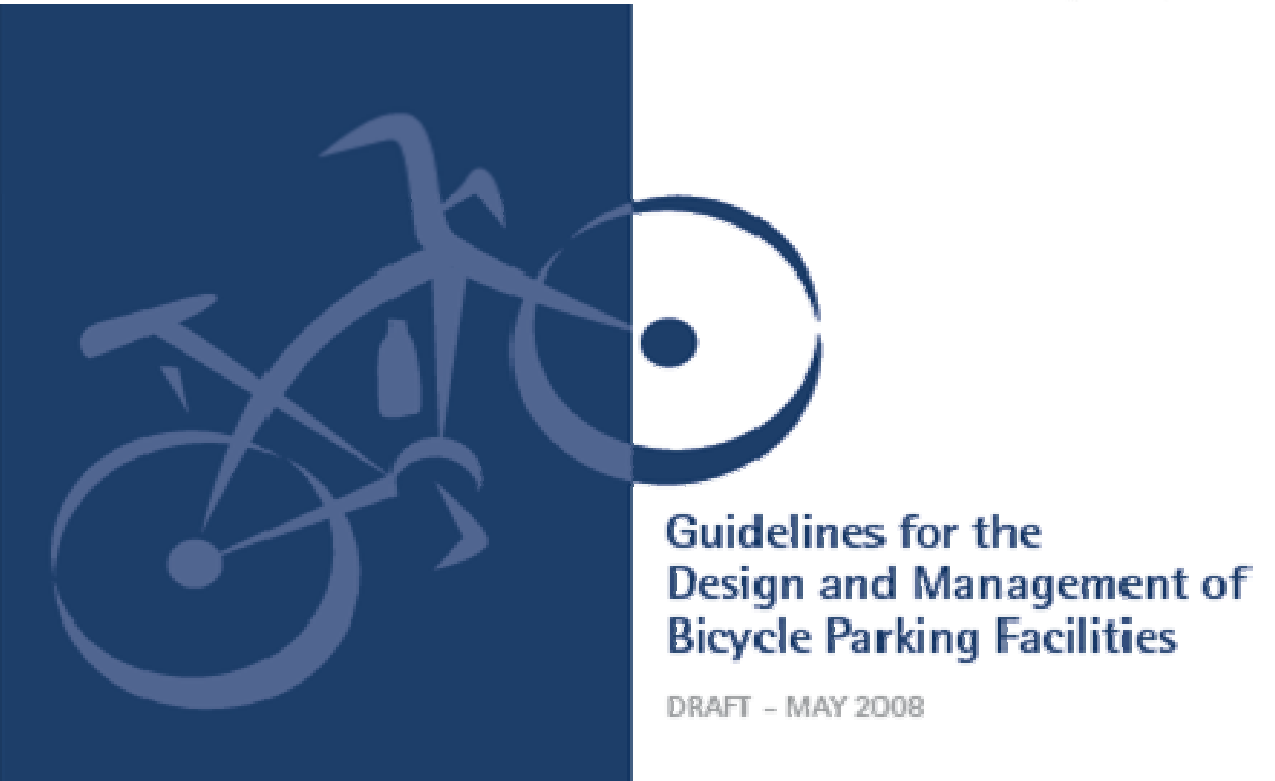
Bicycle Parking Facility Guidelines

OP 2.2.3(e)
EP 25, 26









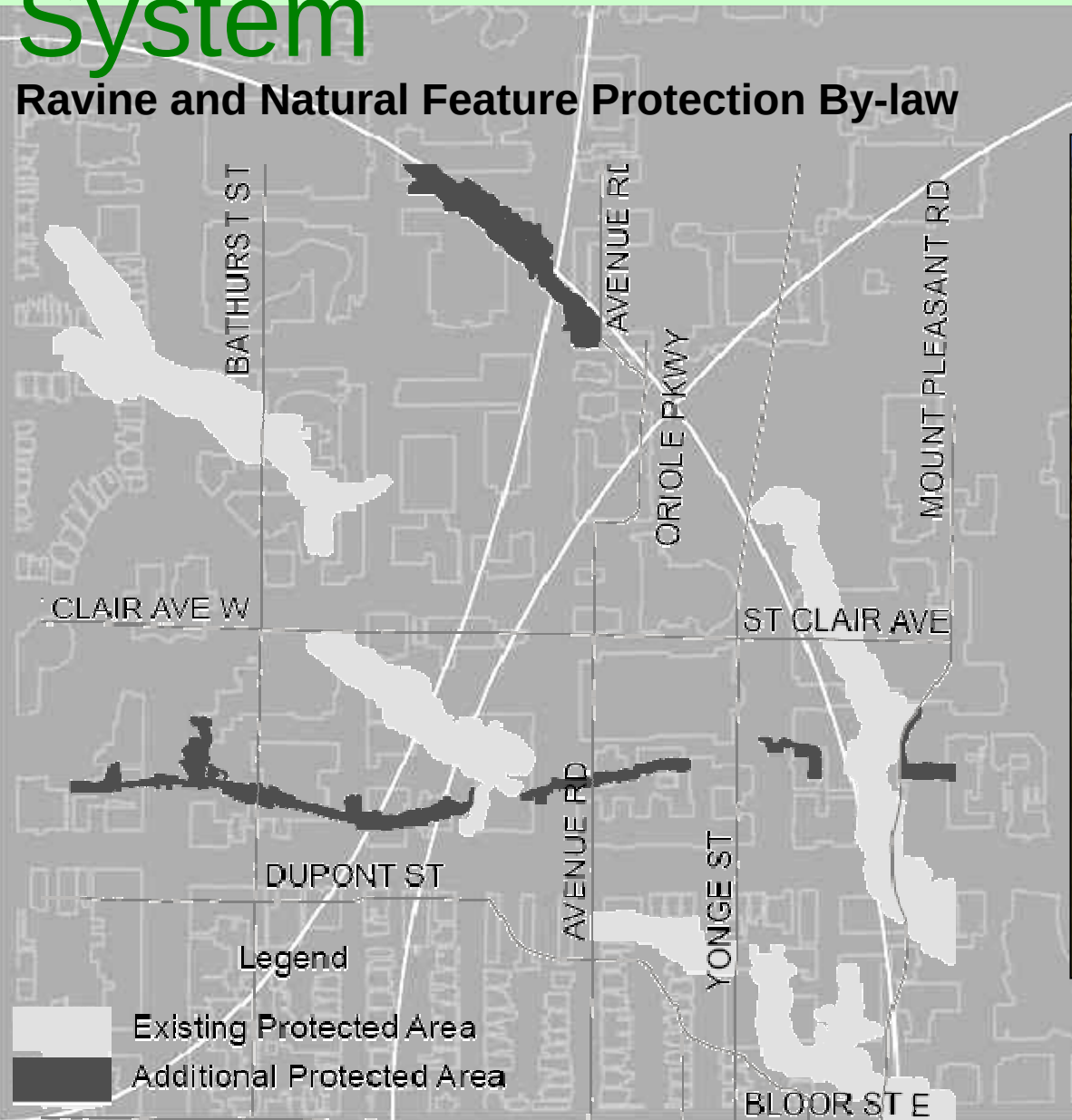
Natural Heritage System

OP 3.4.8-15
EP 4, 6

Natural Heritage System

OP 3.4.8-15
EP 4, 6

Ravine and Natural Feature Protection By-law



Environmentally **S**ignificant **A**reas

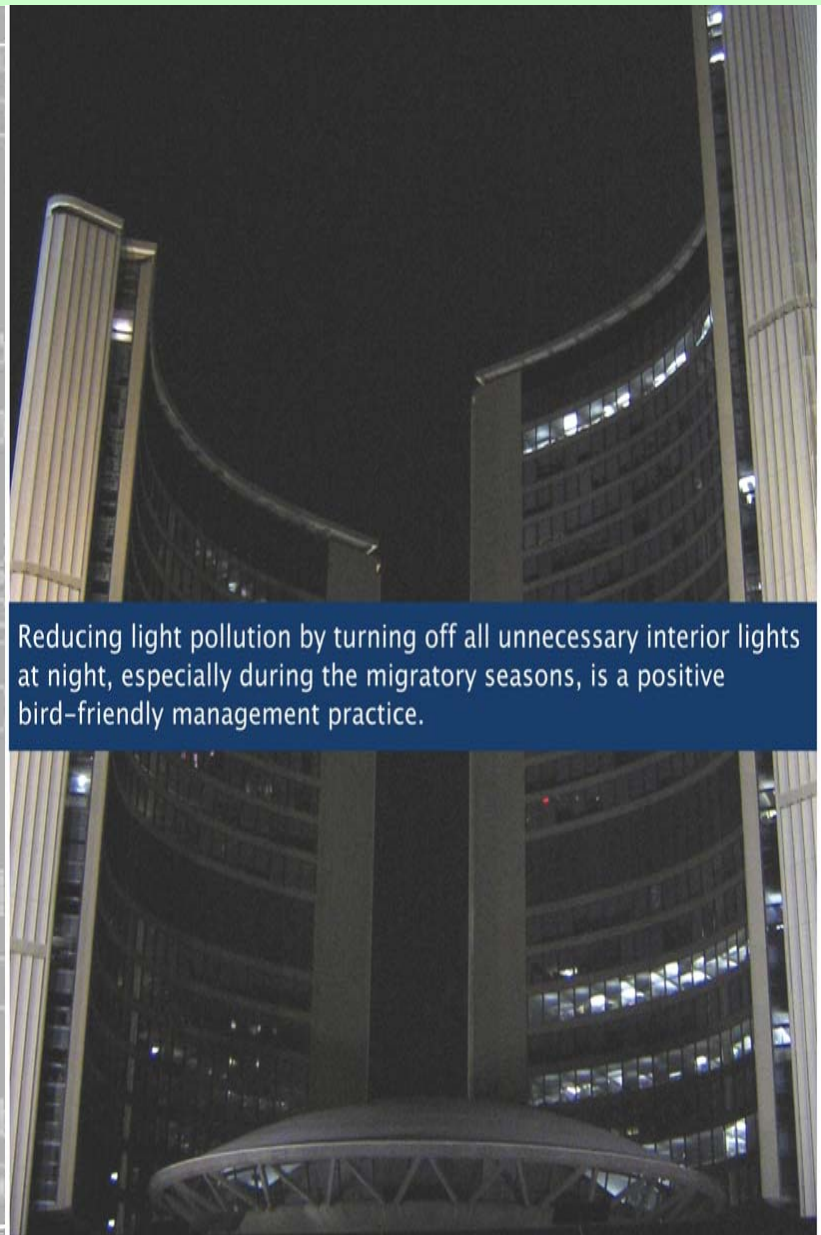
TORONTO City Planning

Light Pollution

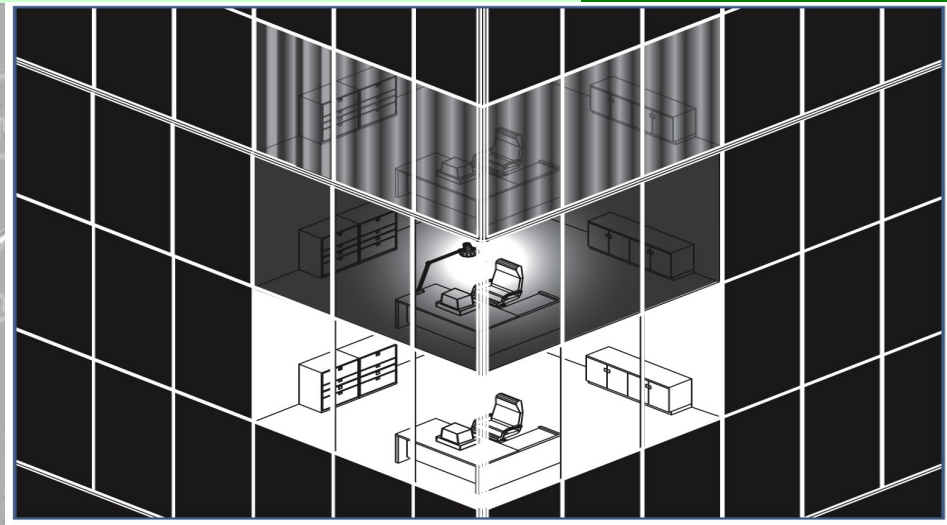
OP 3.4.1, 3.4.
EP 1, 29, 33, 4

Light Pollution

OP 3.4.1, 3.4.1
EP 1, 29, 33, 4



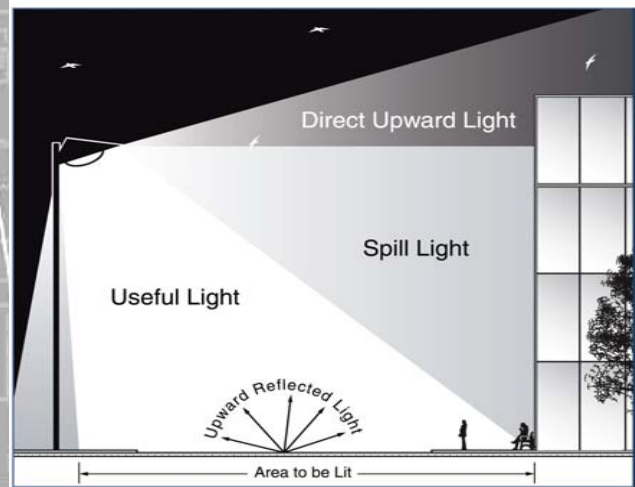
Reducing light pollution by turning off all unnecessary interior lights at night, especially during the migratory seasons, is a positive bird-friendly management practice.



Light pollution can be drastically reduced by drawing office blinds or curtains (top), or using task lighting at work stations (middle). Doing neither (bottom) is energy inefficient and dangerous for migrating birds.

External Lighting Fixtures

Inefficient external lighting is a significant source of light pollution.
For a building to be bird-friendly, light pollution from external lighting must be minimized. This can be achieved by implementing several design features and operational practices related to vanity and architectural lighting, site lighting, lighting for advertising, event and festival lighting.



THE OBJECTIVES ARE TO:

- **Eliminate direct upward light**
  Direct upward light is projected directly upward by inefficient lighting fixtures.
- **Reduce spill light**
  Spill light spills beyond areas that need to be lit for safety and security reasons but is not projected directly upward.
- **Optimize useful light**
  Useful light is used to illuminate urban areas that need to be lit for safety.

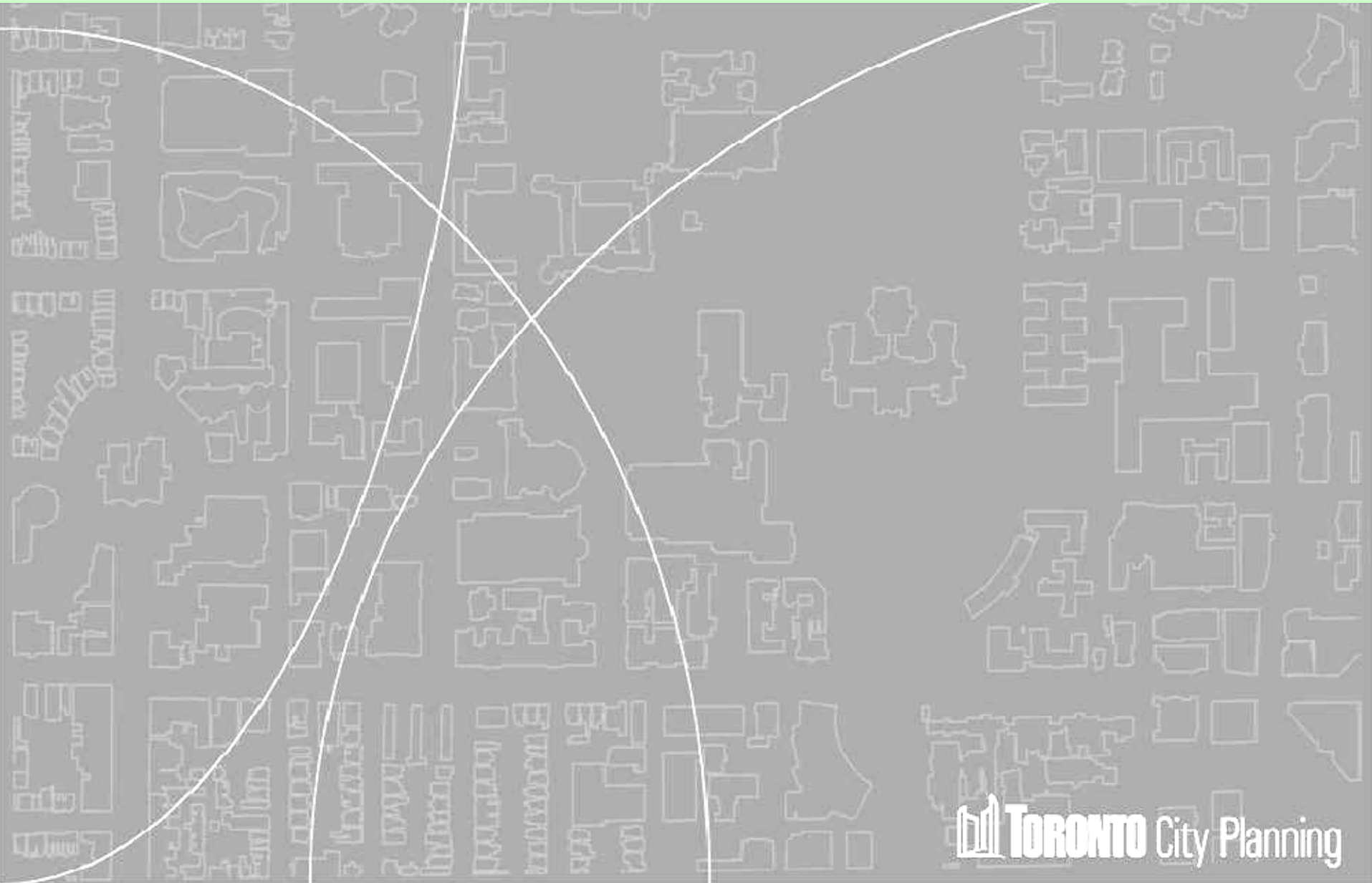
Sustainable Community Planning **Lawrence-Allen**

OP 3.4.1, 3.4.
EP 5, 8, 15, 22, 29, 31, 32, 33, 35,





Other Environmental Activities
Recent Past



Renewable Energy By-law

OP 3.4.18
EP 30, 31, 32

Bird Friendly Development Guidelines

OP 3.4.1, 3.4.1
EP 3, 12, 41

COMPREHENSIVE BIRD-FRIENDLY SITE STRATEGY

A: Treatment applied to glass projecting enough visual markers to make it visible to birds

B: Task lighting in use after dark

C: Blinds drawn after dark

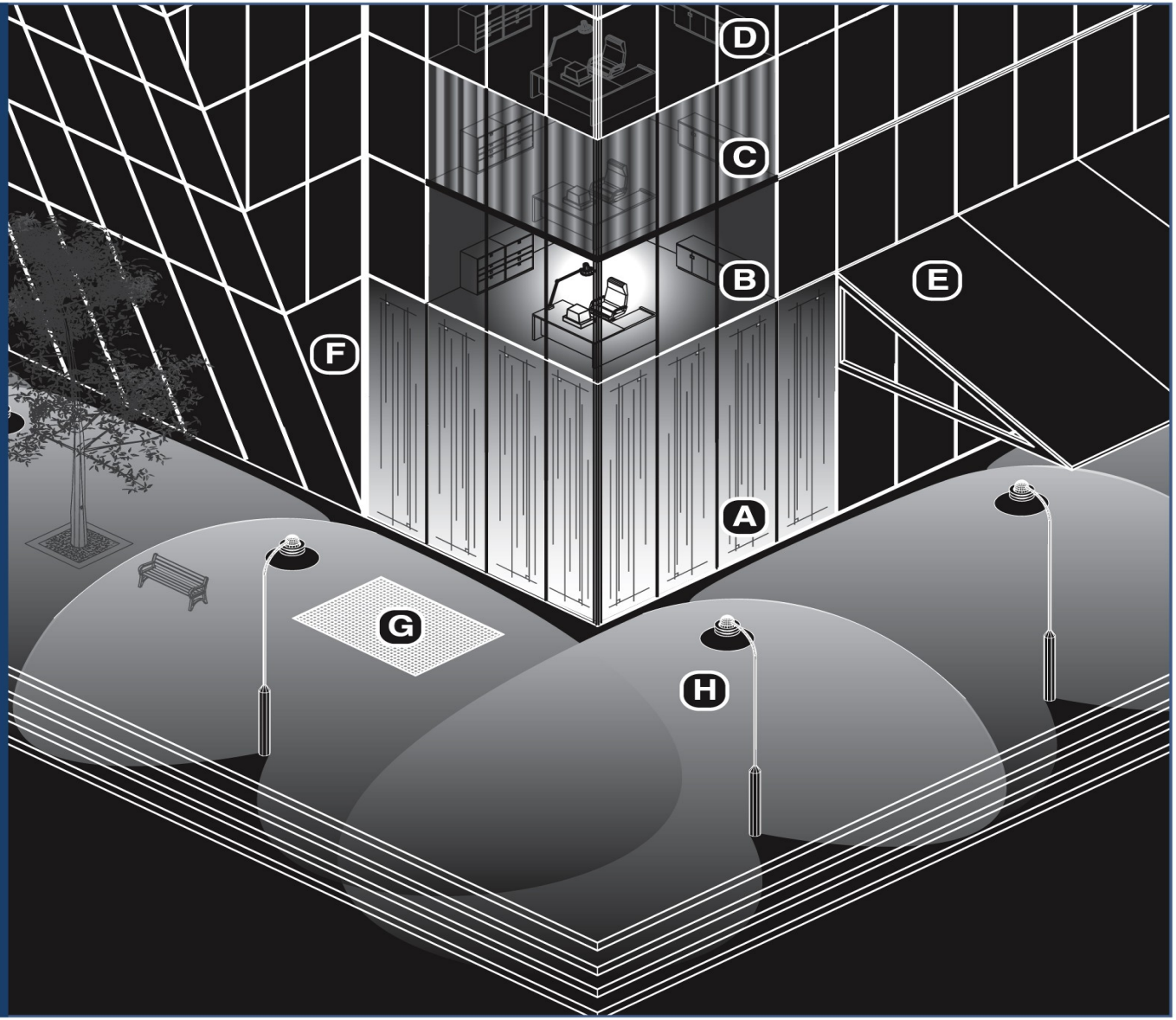
D: Lights turned off after work hours

E: Awning for muting reflections on lobby windows

F: Glass effectively angled to project reflections downward

G: Bird-friendly site ventilation grates

H: Use of lighting fixtures effectively projecting light downward

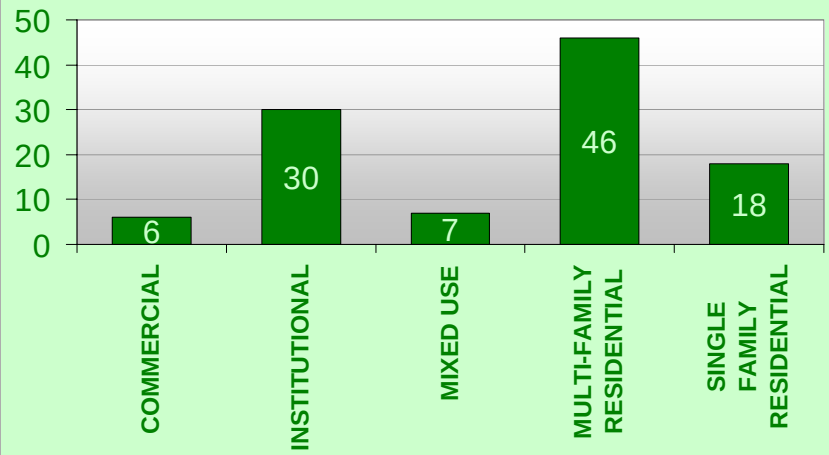


Design Guidelines for **Greening** SURFACE PARKING LOTS

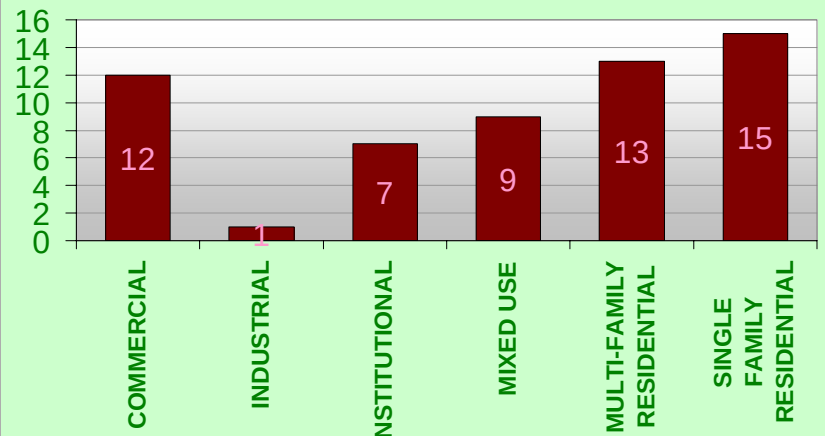
OP 3.4.1, 3.4.1
EP 5, 13, 30

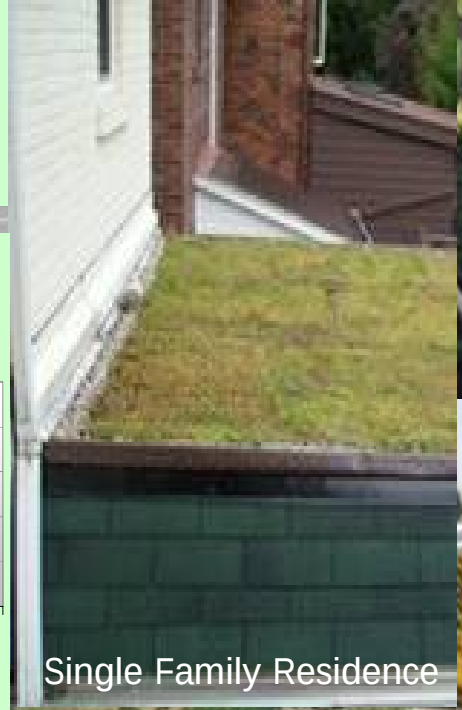
Green ROOFS

Built (107)



Planned (57)

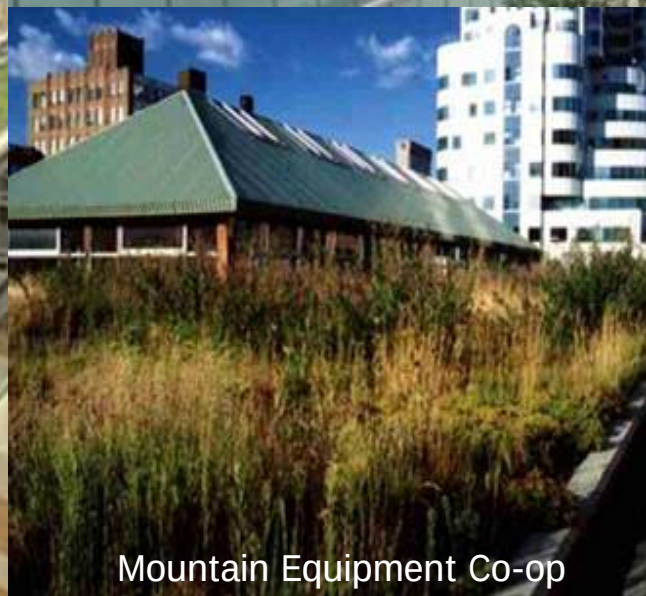



Single Family Residence

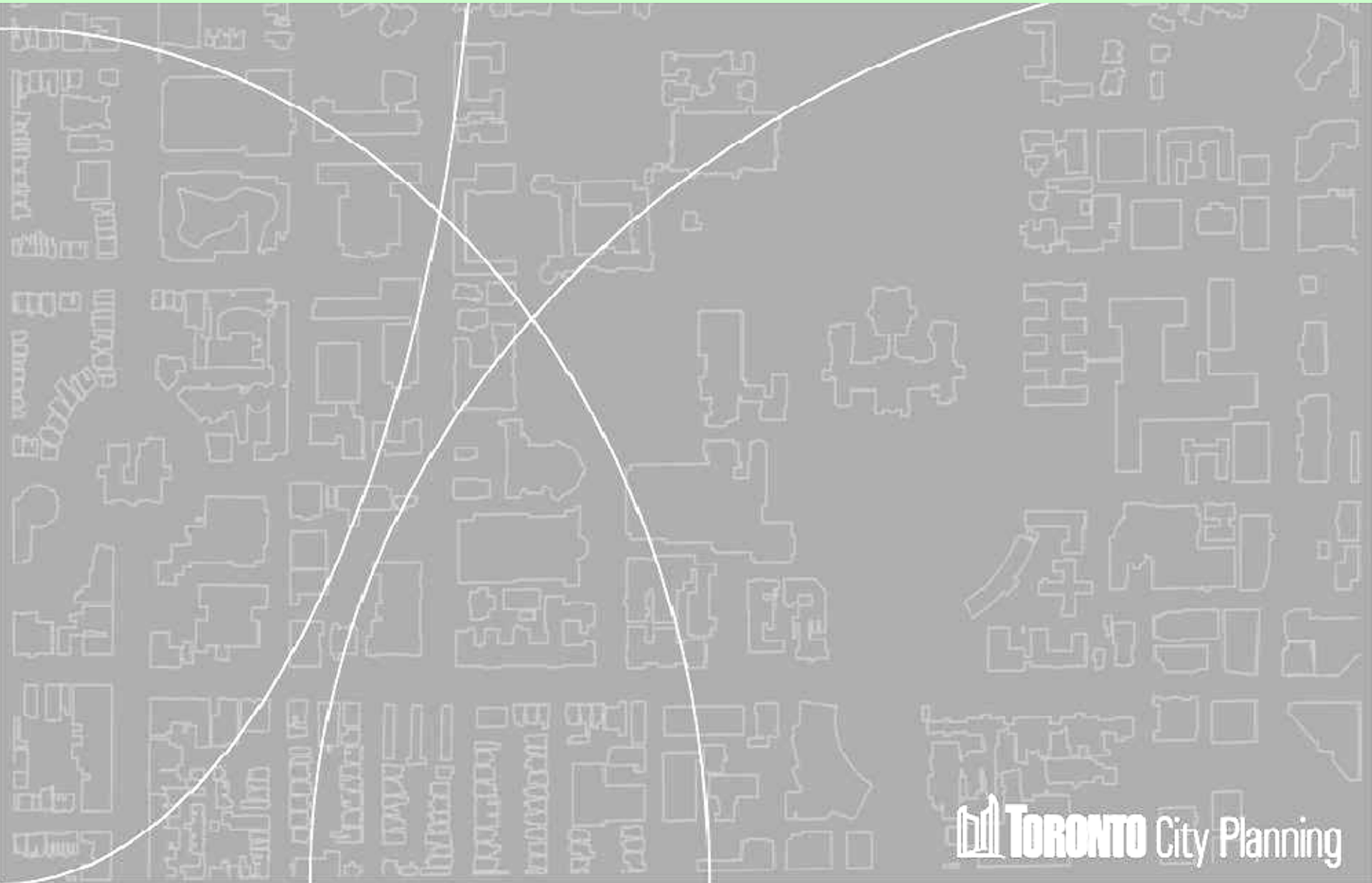

Jackman Public School


Toronto Botanical Gardens


York University


Mountain Equipment Co-op

Environmental Activities
Present



Biodiversity Strategy

OP 3.4.1, 3.4.1
EP 3, 12, 41

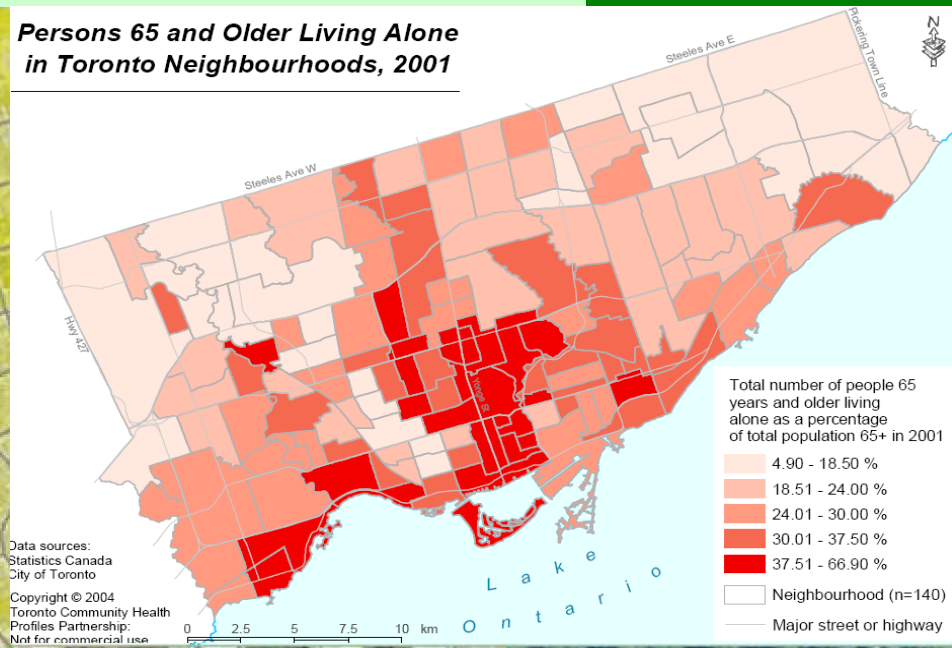
Sustainable Development Trainin Course

OP
EP 31, 41

TORONTO City Planning

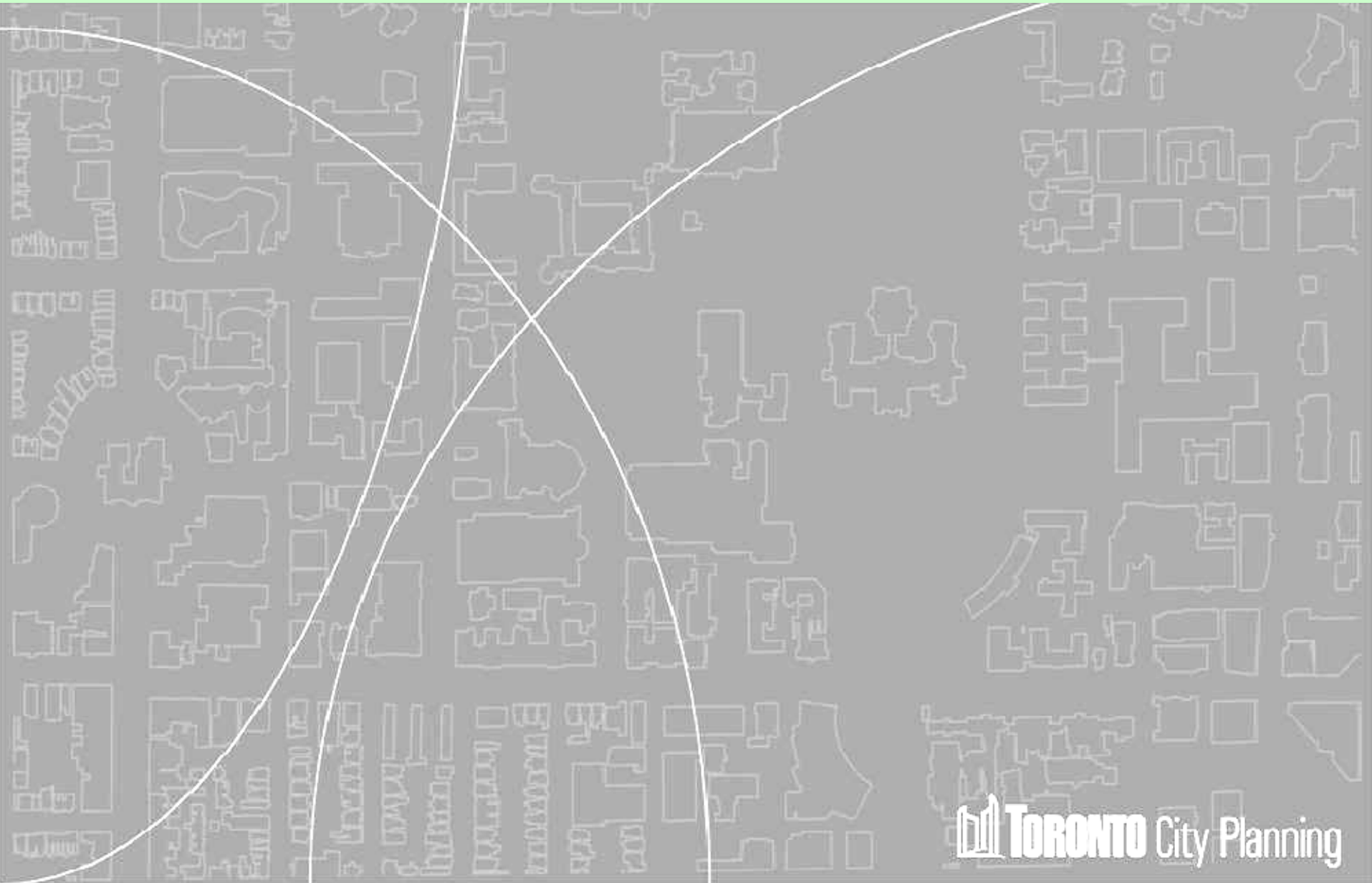
UHI Decision Support Tool

OP 3.4.18(f)
EP 20, 24



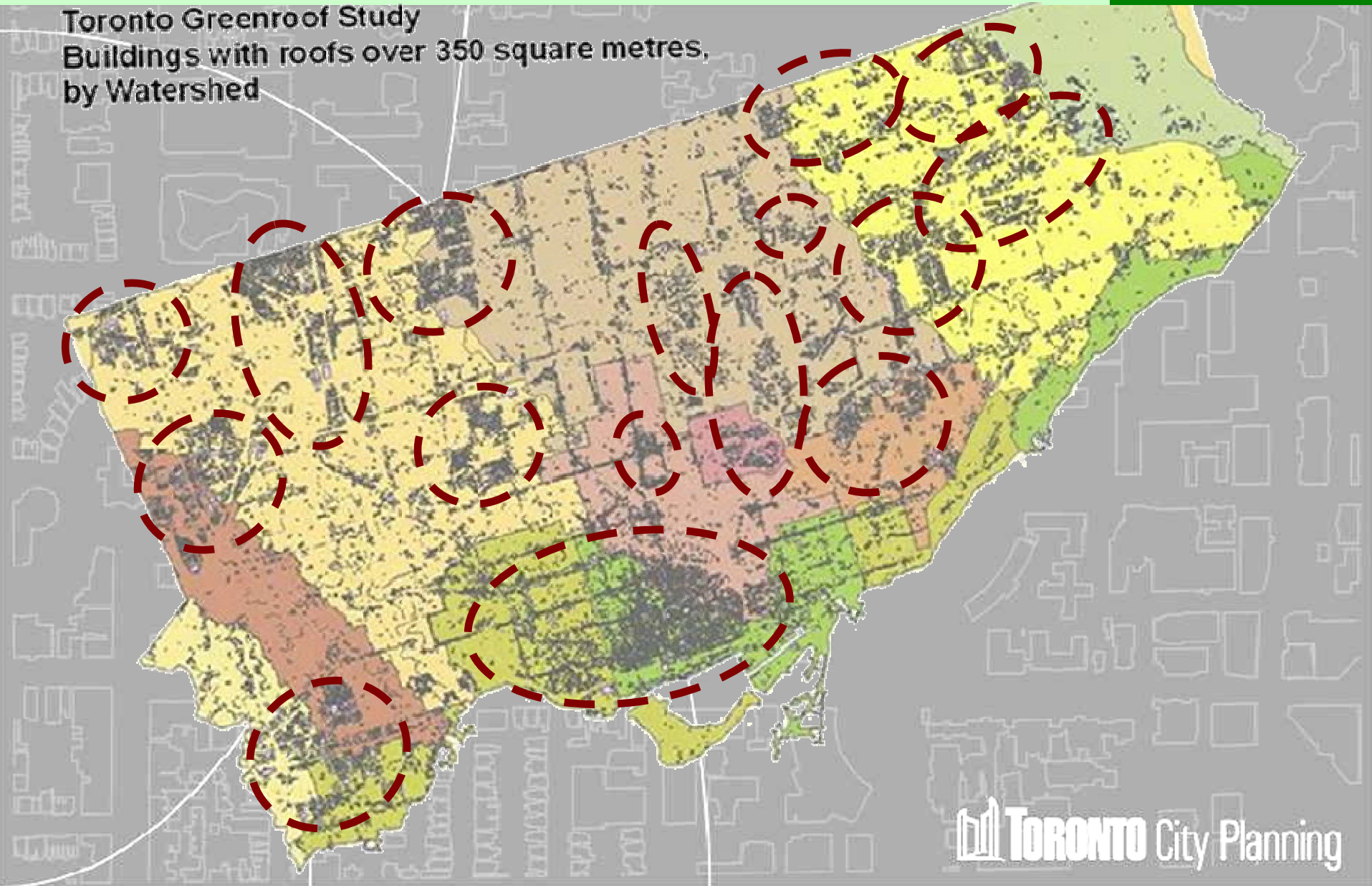
0% Tree Canopy / 60% Tree Canopy

Environmental Initiatives
Future



Green Roof By-Law

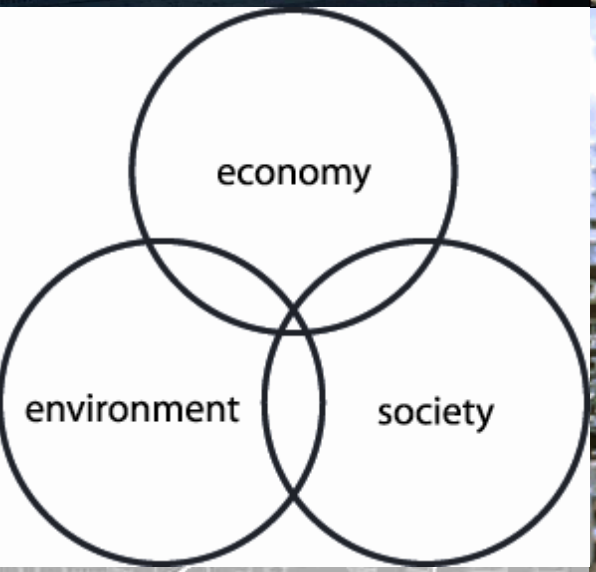
OP 3.4.18 (f)
EP 8




the TORONTO
GREEN STANDARD
Performance Measures for Sustainable Development
OP 3.4.1, 3.4.1
EP 5, 8, 15, 22,
29, 30, 31, 33, 35,
TORONTO

Sustainable Planning Framework

OP 3.4.1, 3.4.
EP 5, 8, 15, 22,
29, 31, 32, 33, 35,



Triple Bottom Line