14 JUIN 2016



REFAIRE LA VILLE SUR LA VILLE

#rendezvousCV

#20ansVenV

Design Guidance for Urban Infill & Regeneration in Toronto

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City of Toronto

RENDEZ-VOUS COLLECTIVITÉS VIABLES VIVRE EN VILLE - Montreal

June 14th, 2016

1/ toronto urban context

Little Miles and Inthine

GLOBAL CONTEXT

Canada's largest city in a region of 9million

1/3 of Canada's population is within 160km



4th largest city in North America

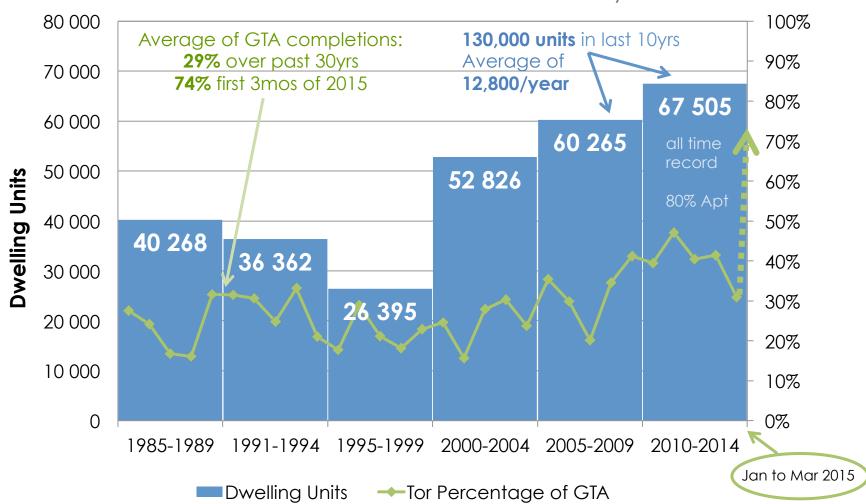
60% of US population is within 1.5 hours by air

over 2.8 million people call Toronto home

every year Toronto grows by 25,000 new residents

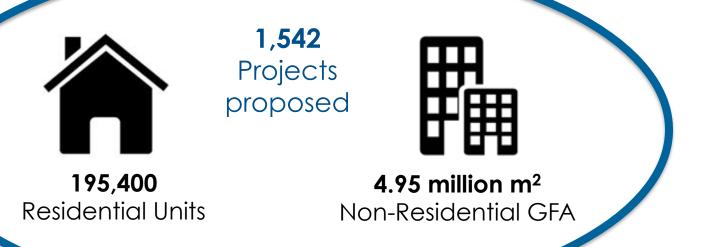
Toronto vs GTA: Residential Completions

On track for an all time record year



Development Pipeline in Toronto

Strong development activity over the last 5 years

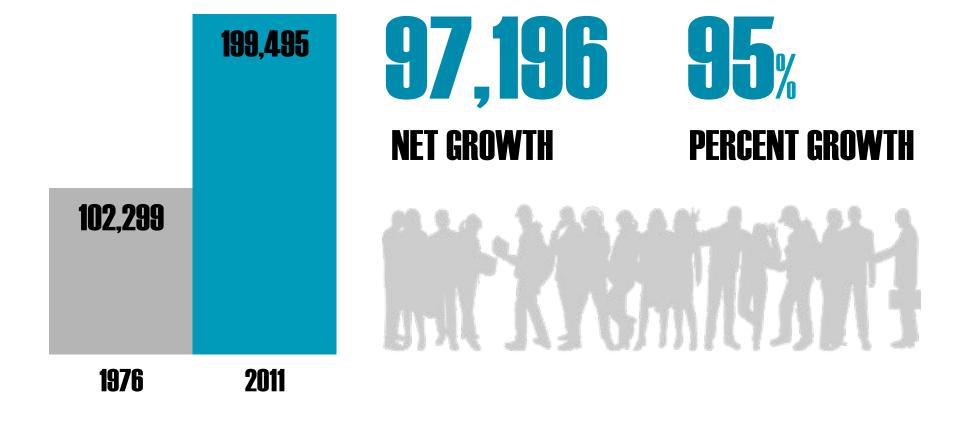




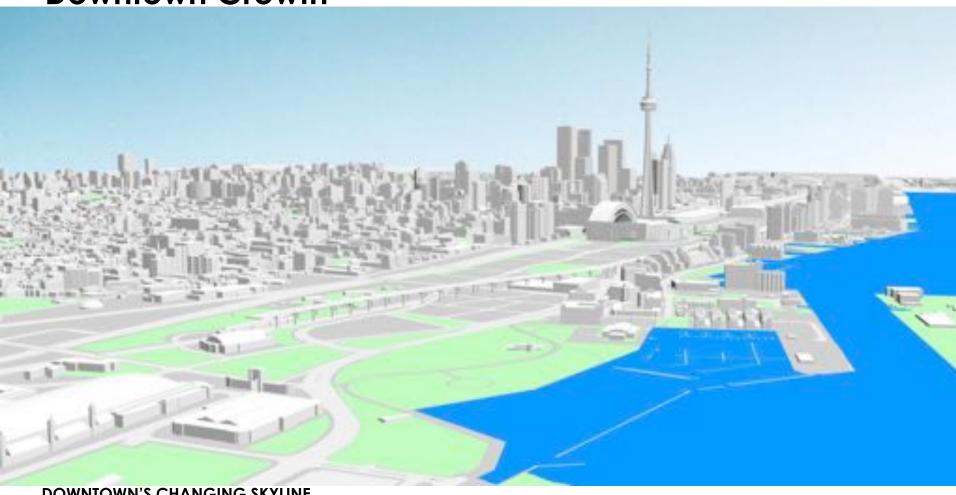
Downtown Growth

Population

COMPARISON 1976 TO 2011

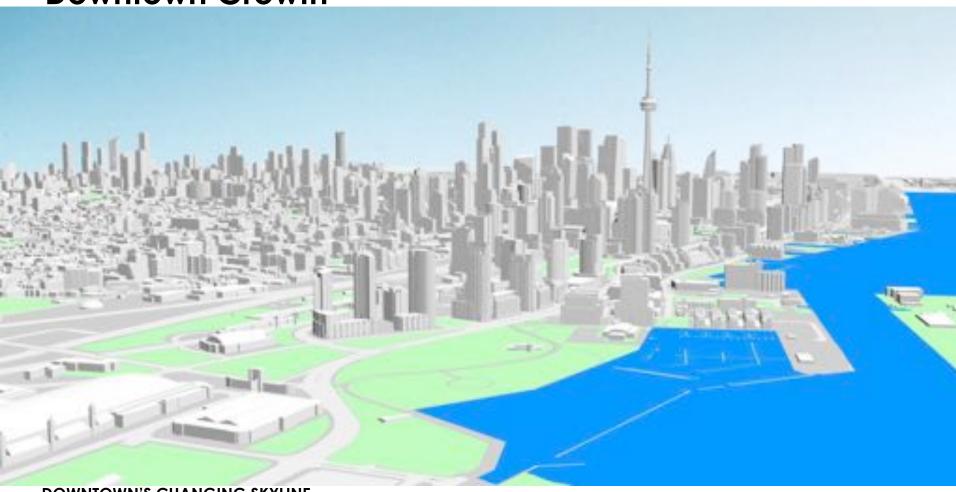


Downtown Growth



DOWNTOWN'S CHANGING SKYLINE 2000

Downtown Growth



DOWNTOWN'S CHANGING SKYLINE 2014 – Existing and Anticipated

toronto planning context

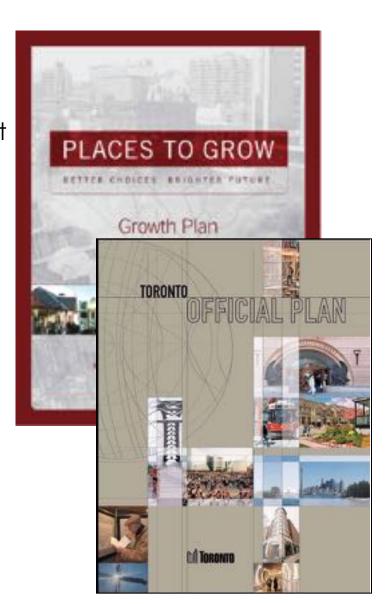
ONTARIO'S PLANNING FRAMEWORK

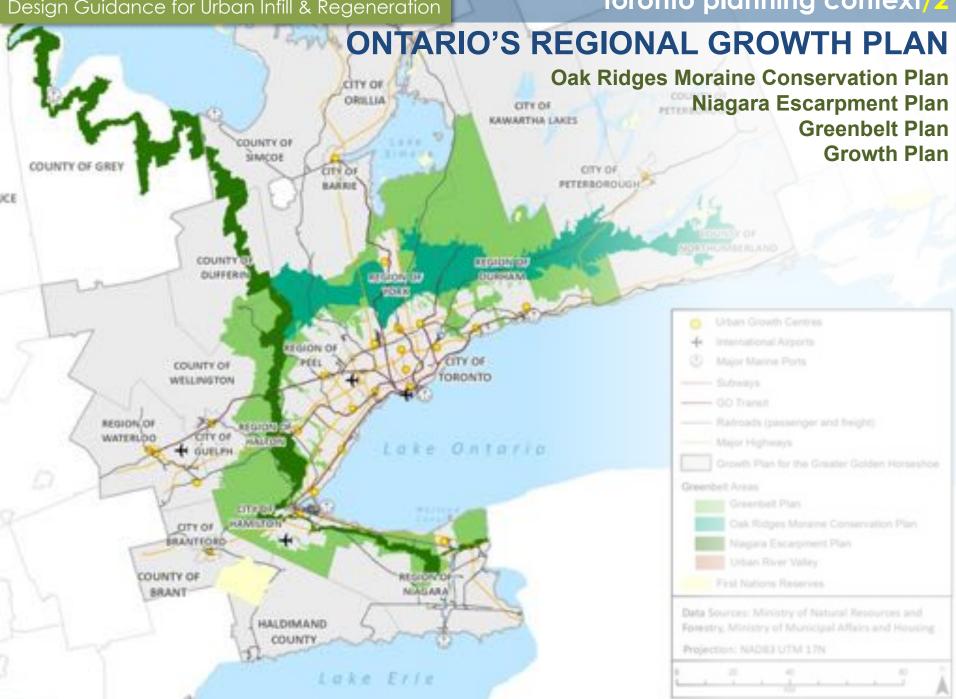
Provincial Government

- Planning Act/Heritage Act/Toronto Act
- Provincial Policy Statement
- Growth Plan
- Metrolinx
- Ontario Municipal Board

Municipal Government

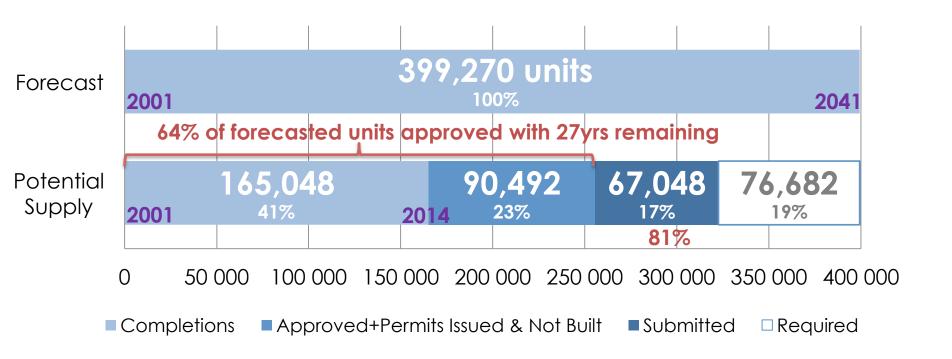
- Official Plan
 - · Secondary Plans
 - Zoning By-laws
 - Urban Design Guidelines
 - Heritage Conservation Districts
 - Development Permit System
 - Design Review Panels





ONTARIO'S REGIONAL GROWTH PLAN

Toronto's growth is well on track to house population (3.4million) forecasted in the Growth Plan



TORONTO'S OFFICIAL PLAN

Directing Growth

Established Areas, Incremental Change Areas, Major Growth Areas

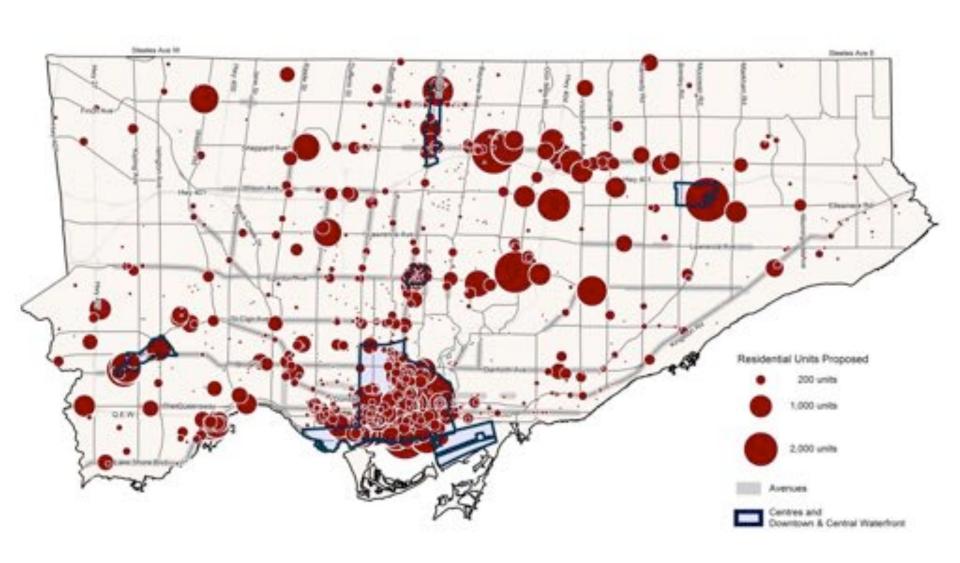


Protected Areas – 75% of the City

Growth Areas – 25% of the City

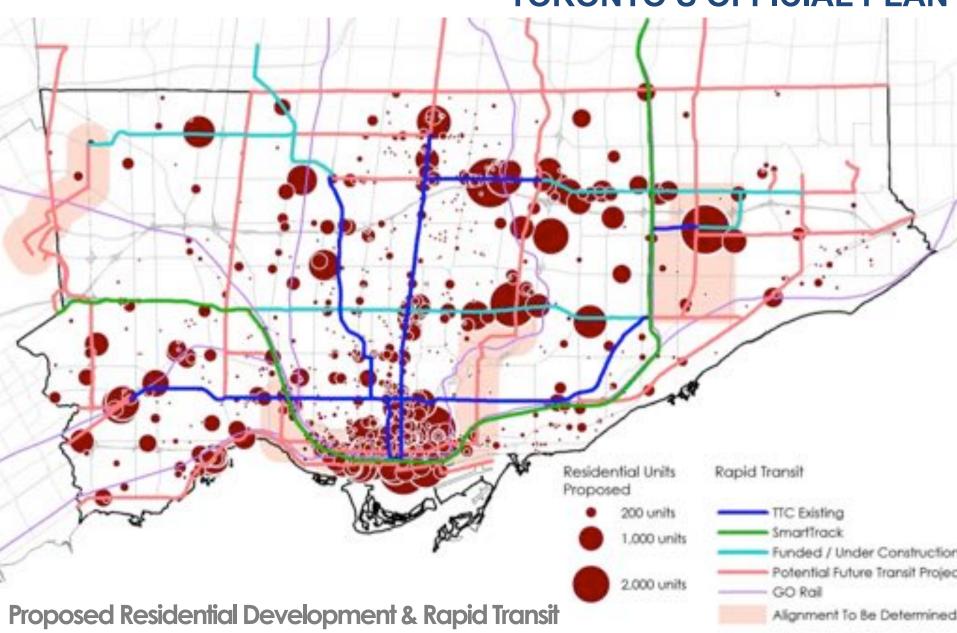


TORONTO'S OFFICIAL PLAN



Proposed Residential Development by Location

TORONTO'S OFFICIAL PLAN



Enabling Policy

5.3.2 Implementation Plans and Strategies for City-Building **Guidelines** will be "adopted to advance the vision, objectives, and policies of the Plan." (policy 1)

Urban Design Guidelines specifically are intended "to provide a more detailed framework for built form and public improvements in growth areas."

Formal Public Process

- Developed through stakeholder consultations
- Adopted by City-Council



Great City
Building & Design
Excellence

No. of the last of

Guidelines/Standards
Range & Flexible

Flexible for site-specific conditions/ priorities

Flexibility =
greatest strength
& greatest
weakness

Regulations/By-Laws
Rigid & Binary

ZONING BYLAW

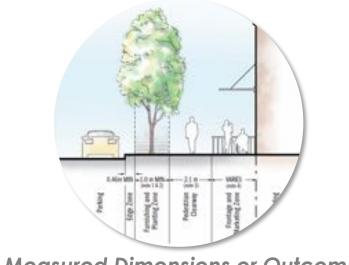
INTERACTIVE MAP

Function & Subject Area

Mostly focus on the form & character of buildings & spaces with respect to reinforcing mostly urban structure & public realm objectives

Can be **qualitative** and/or **quantitative** measures

Can be presented as principles, objectives, standards, benchmarks, and/or be performance based



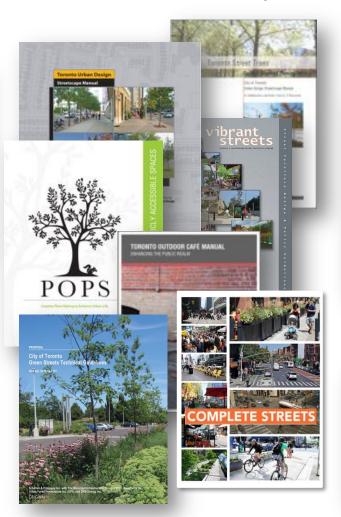
Measured Dimensions or Outcomes



"High-Quality" "Comfort" "Experience"

City-Wide Subject Area Focus







Built-Form

Streets & Open Space

Special Issues

District or Area-Specific Focus

North York District

Advent Branson Community

Allenbury Gardens Allen-Sheppard

Avenue Road

Bayview Institutions

Bayview Avenue Area Bessarion-Leslie | Concord Park Place Southeast Bayview Node

Castlefield Caledonia Design and

Décor District Clairtrell Area Downsview

Keele Provincial Campus Lawrence Allen Revitalization

O'Connor Drive **Parkway Forest**

Replacement Housing (former City of

NORTH YORK

DISTRICT

TORONTO & EAST YORK

DISTRICT

North York)

Victoria Park-Steeles

Wilson Avenue

ETOBICOKE YORK

DISTRICT



SCARBOROUGH

65+ Guideline **Documents**

Scarborough District

Danforth Avenue Finch-Warden

Highland Creek Village

Kingston-Warden

Markham-Ellesmere

Metrogate Agincourt

Midland/St. Clair

Morningside Heights

Sheppard East

Etobicoke York District

Bloor-Kingsway

5055 Dundas Street West

Etobicoke Centre

Lake Shore Boulevard West

Lakeshore Grounds

Motel Strip as updated by Humber Bay Shores

Mount Dennis

Old Stockyards

Park Lawn-Lake Shore

Sherway Centre

Viking Road

Weston

Windermere Village

Toronto & East York District O'Connor Drive

Bathurst-St.Clair Queen Street East (Coxwell

532-570 Bay Street at Dundas Avenue to Nursewood Road)

Bloor Corridor Visioning Study: Queen West, Baldwin Village

Avenue Road to Bathurst

Street

Bloor-Yorkville/North Midtown

Downtown Tall Buildings Exhibition Place

King-Liberty

King-Parliament

King-Spadina

North Downtown Yonge Oakwood-Vaughan

Queen-University/Canada Life

Railway Lands West/Central

26 Shuter Street South of Eastern

and the Grange

St. Lawrence Neighbourhood

Toronto General Hospital

University of Toronto (Main

Campus)

1 Yonge Street

1320 Yonge Street



Toronto DRP: 12 meetings held and 41 projects reviewed in 2015









All Designations All Growth Areas



TORONTO
COMPLANE 2015

MID-BUSE BUILDING
DESIGN
COMPLANE

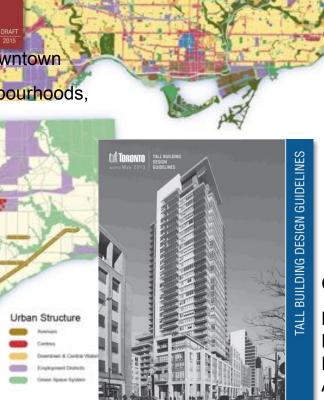
DESIGN
TORONTO
COMPLANE

DESIGN
TORONT

Avenues, Centres, Downtown

Mixed Use, Apt Neighbourhoods,

Regeneration Areas



Tall, Mid & Low Buildings
Targeted Locations

Centres, Downtown

Neighbourhoods

Mood Use Aven

Nahadi Areds

Apartment Neighbourhoosts

Other Open Specia Annie Institutional Arises Ringementine Annie Employment Annie Utility Considers

Mixed Use, Apt Neighbourhoods, Regeneration Areas

Tall, Mid & Low Buildings Key Performance Objectives of Guidelines

Quality of the pedestrian experience as shaped by attention to design & material quality, protection from the elements, animation & visual interest.

- Sidewalk zone
- Street trees
- Entrances
- Façade & Storefronts
- Grade level heights

Pedestrian Level Scale Continuity & consistency of the first few levels of the building that define & give character to the streetscape.

- appropriate min/max heights
- Continuous street wall
- Contextual Stepbacks
- Façade design &
- articulationBalconies & projections
- Consistent cornice lines
- Heritage considerations

Street Wall Scale

How the overall building is scaled, massed & transitions to fit in its context, while minimizing adverse shadow & skyview impacts.

- Upper storey setbacks
- Mechanical penthouse
- Angular planes
- Min 5 hours of sunlight

Neighbourhood Scale

Tall, Mid & Low Buildings Guideline Organization

FOR DISCUSSION PURPOSES ONLY

FOR DISCUSSION PURPOSES ONLY

3.T.1 BASE BUILDING SCALE AND HEIGHT

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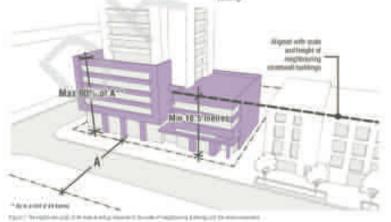
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Design Guideline

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∡CALE AND HEIGHT

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Additional Guidelines

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Tall, Mid & Low Buildings Guideline Organization

FOR DISCUSSION PURPOSES ONLY

Rationale

RATIONALE

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References (Official Plan, Other Standards, Studies, Guidelines)

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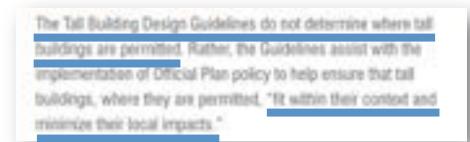
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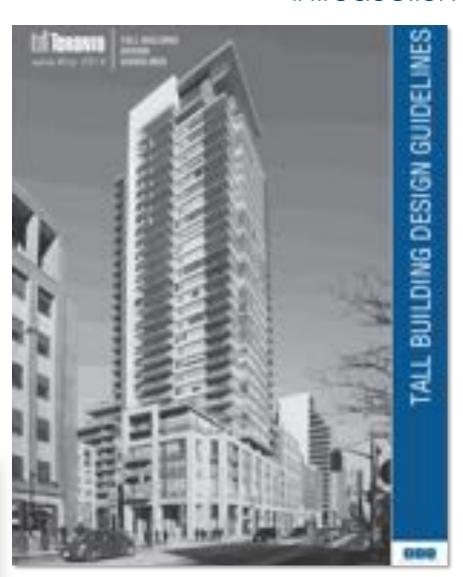
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13

Tall Building Design Guidelines Introduction

- Design Criteria for the Review of Tall Building Proposals (2006)
- Downtown Tall Buildings Vision and Performance Standards Design Guidelines (2012)
- Tall Building Design Guidelines
 - adopted by Council on May 8, 2013
 - integrate and build upon previous Council-adopted guidelines
 - establish a unified set of performance measures for the evaluation of all tall building development applications city-wide





Tall Building Design Guidelines Introduction

Table of Contents

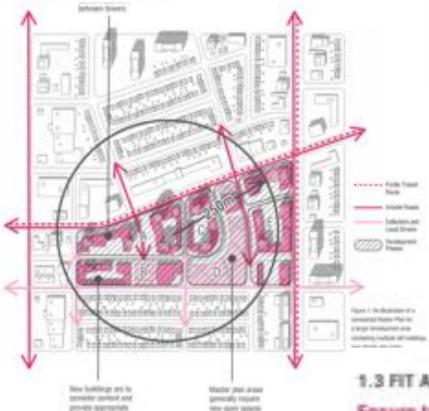


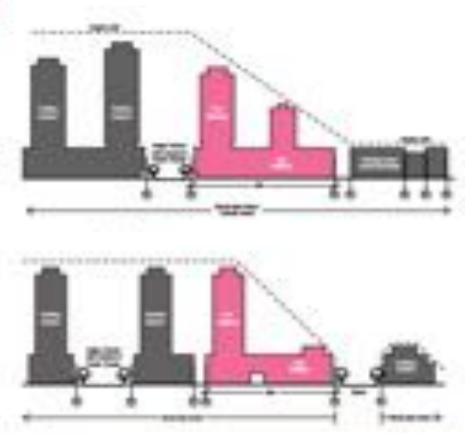
Tall Building Design Guidelines

Key Principles: Site Context

1.2 MASTER PLAN FOR LARGER SITES

Coordinate the development of larger sites with potential for multiple tall buildings, new internal streets, or parks through a Master Plan.





1.3 FIT AND TRANSITION IN SCALE

Ensure tall buildings fit within the existing or planned context and provide an appropriate transition in scale down to lower-scaled buildings, parks, and open space.

Tall Building Design Guidelines

Key Principles: Site Context

1.2 MASTER PLAN FOR LARGER SITES

Coordinate the development of larger sites with potential for multiple tall buildings, new internal streets, or parks through a Master Plan.







Tall Building Design Guidelines

Key Principles: Site Context

1.4 SUNLIGHT AND SKY VIEW

Locate and design tall buildings to protect access to sunlight and sky view within the surrounding context of streets, parks, public and private open space, and other shadow sensitive areas.



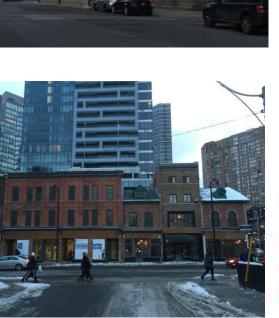


1.6 HERITAGE PROPERTIES AND HERITAGE CONSERVATION DISTRICTS

Locate and design tall buildings to respect and complement the scale, character, form and setting of on-site and adjacent heritage properties and Heritage Conservation Districts (HCDs).

Key Principles: Site Context







1.6 HERITAGE PROPERTIES AND HERITAGE CONSERVATION DISTRICTS

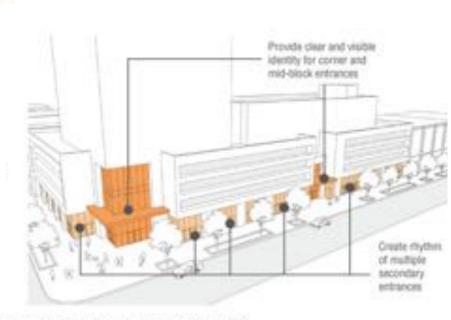
Locate and design tall buildings to respect and complement the scale, character, form and setting of on-site and adjacent heritage properties and Heritage Conservation Districts (HCDs).

Key Principles: Site Organization

2.1 BUILDING PLACEMENT

Locate the base of tall buildings to frame the edges of streets, parks, and open space, to fit harmoniously with the existing context, and to provide opportunities for high-quality landscaped open space on-site.





2.2 BUILDING ADDRESS AND ENTRANCES

Organize tall buildings to use existing or new public streets for address and building entrances.

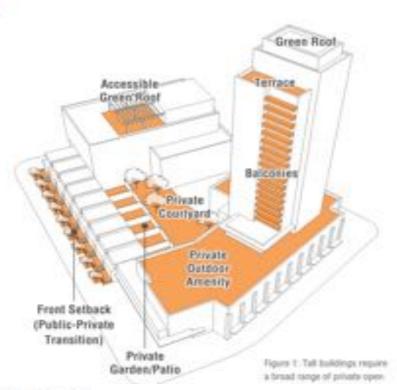
Ensure primary building entrances front onto public streets, are well-defined, clearly visible, and universally accessible from the adjacent public sidewalk.

2.4 PUBLICLY ACCESSIBLE OPEN SPACE

Key Principles: Site Organization

Provide grade-related, publicly accessible open space within the tall building site to complement, connect, and extend the existing network of public streets, parks, and open space.





2.5 PRIVATE OPEN SPACE

Provide a range of high-quality, comfortable private and shared outdoor amenity space throughout the tall building site.

Tall Building Design Guidelines Key Principles: Site Organization

2.4 PUBLICLY ACCESSIBLE OPEN SPACE

Provide grade-related, publicly accessible open space within the tall building site to complement, connect, and extend the existing network of public streets, parks, and open space.









Key Principles: Site Organization

2.4 PUBLICLY ACCESSIBLE OPEN SPACE

Provide grade-related, publicly accessible open space within the tall building site to complement, connect, and extend the existing network of public streets, parks, and open space.





Key Principles: Site Organization







2.7 PUBLIC ART

Pursue public art opportunities and funding strategies on tall building sites, or adjacent public lands, to enhance the quality of the development, the public realm, and the city.

Tall Building Design Guidelines Key Principles: Tall Building Design







Top

The tops of tail buildings, including upper floors and reof-top mechanical or telecommunications equipment, signage, and amenty space, should be designed, primarily through the tower massing and secondarily through materials, to create an integrated and appropriate conclusion to the tail building form.

Middle (Tower)

The location, scale, floor plate size, orientation, and separation distances of the middle (tower) affect sky view, privacy, wind, and the amount of swelight and shadows that reach the public main and neighbouring properties. The design and placement of the tower should effectively resolve these matters to ensure that a tall building minimizes its impact on surrounding streets, parks, public and private open space, as well an existing or future buildings on adjacent sites. Tower placement and design also plays an important rate in meeting sustainability objectives.

Base Building

The lower storeys of a tall building are referred to as the base trulking. The role of the base building is to frame the public realini, articulate entrances, and assist in the creation of an attractive and animated public realini which provides a safe, interesting, and constartable pedestrian experience. The base building should define and support adjacent streets, parks, and open space at an appropriate scale, integrate with adjacent streetwall buildings, assist to achieve transition down to lower-scale buildings, and minimize the impact of parking and servicing on the public realini.



Key Principles: Tall Building Design

3.1.1 BASE BUILDING SCALE AND HEIGHT

Design the base building to fit harmoniously within the existing context of neighbouring building heights at the street and to respect the scale and proportion of adjacent streets, parks, and public or private open space.



3.1.2 STREET ANIMATION

Line the base building with active, grade-related uses to promote a safe and animated public realm.

Key Principles: Tall Building Design

3.1.3 FIRST FLOOR HEIGHT

Provide a minimum first floor height of 4.5 metres, measured floor-to-floor from average grade.



Figure 1. Destinant of the transition space between the points potential and looking interior reflects the others; much for excess and private between instancial and incremental fractions.

3.1.5 PUBLIC-PRIVATE TRANSITION

Design the base building and adjacent setback to promote an appropriate level of visual and physical access and overlook reflecting the nature of building use at-grade.

Tall Building Design Guidelines Key Principles: Tall Building Design



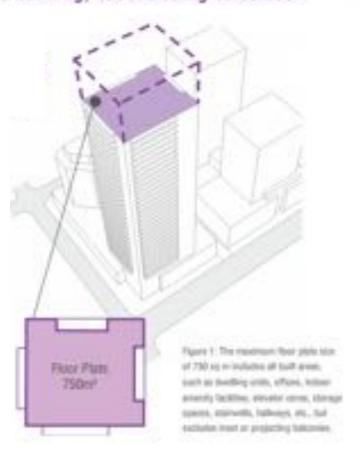


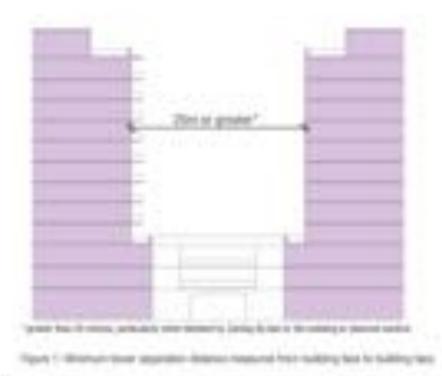
Base Building Scale, Animation & Articulation

Key Principles: Tall Building Design

3.2.1 FLOOR PLATE SIZE AND SHAPE

Limit the tower floor plate to 750 square metres or less per floor, including all built area within the building, but excluding balconies.





3.2.3 SEPARATION DISTANCES

Setback tall building towers 12.5 metres or greater from the side and rear property lines or centre line of an abutting lane.

Provide separation distance between towers on the same site of 25 metres or greater, measured from the exterior wall of the buildings, excluding balconies.

Tall Building Design Guidelines Key Principles: Tall Building Design





Tower Floor Plate & Separation Distances

Key Principles: Tall Building Design

3.3 TOWER TOP

Design the top of tall buildings to make an appropriate contribution to the quality and character of the city skyline.

Balance the use of decorative lighting with energy efficiency objectives, the protection of migratory birds, and the management of artificial sky glow.



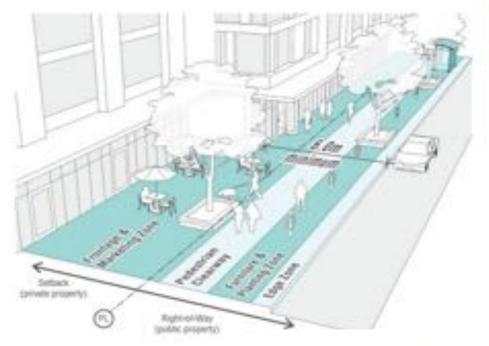


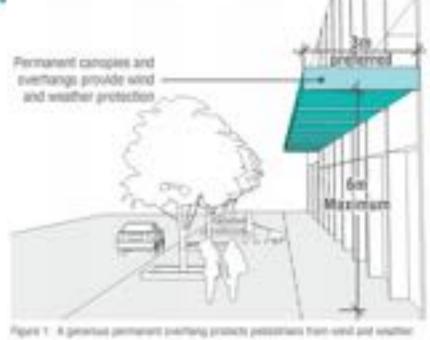


Key Guides: The Pedestrian Realm

4.2 SIDEWALK ZONE

Provide adequate space between the front of the building and adjacent street curbs to safely and comfortably accommodate pedestrian movement, streetscape elements, and activities related to the uses at grade.





4.4 PEDESTRIAN WEATHER PROTECTION

Ensure weather protection elements, such as overhangs and canopies, are well-integrated into building design, carefully designed and scaled to support the street, and positioned to maximize function and pedestrian comfort.

The Guidelines at Work

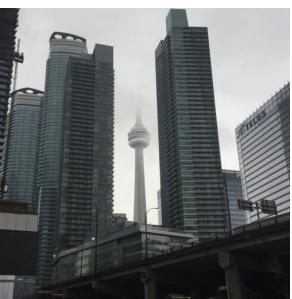












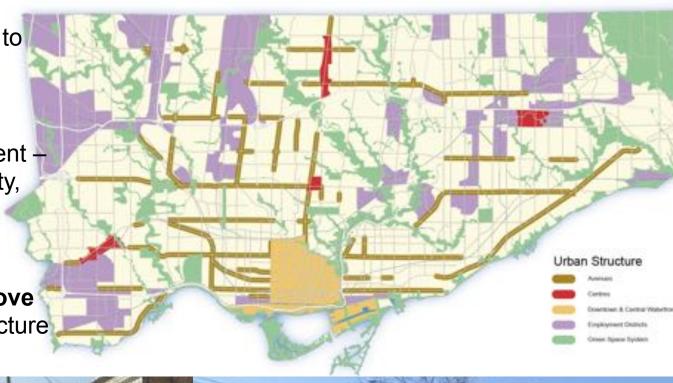
Mid-Rise Building Design Guidelines Introduction

The Avenues:

 Corridors along major transit routes subject to Avenue Studies

 For gradual transitsupportive development – walkable, higher density, mixed-uses

 To create new jobs & housing, and to improve streetscapes, infrastructure & amenities

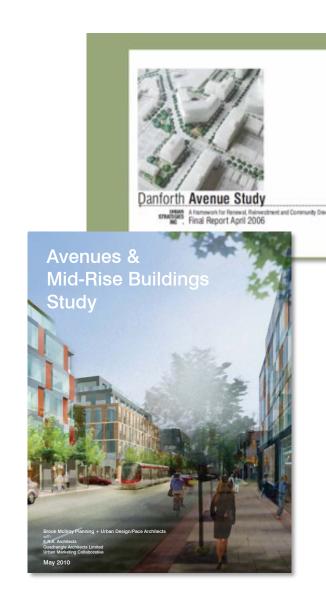




Mid-Rise Building Design Guidelines Introduction

Avenue Studies:

- 19 studies completed from 2002 to 2008
- Mid-rise buildings the most preferred development in all completed studies
- Slow & labour intensive to roll-out studies & new zoning for each corridor
- 2005 Mid-Rise Building Symposium concluded a need for more certainty & incentives to encourage development
- Avenues & Mid-Rise Building Study initiated in 2008 to provide a proactive, city-wide strategy, which is approved by Council in 2010



Mid-Rise Building Design Guidelines 36 Performance Standards

Maximum Allowable Height
The maximum allowable height of
buildings on the Avenues will be no
taller than the width of the Avenue
right-of-way, up to a maximum midrise height of 11 storeys (36 metres).

2. Minimum Building Height

All new buildings on the Avenues must achieve a minimum height of 10.5 metres (up to 3 storeys) at the street frontage.

 Minimum Ground Floor Height The minimum floor to floor height of the ground floor should be 4.5 metres to facilitate retail uses at grade.

4A. Front Façade: Angular Plane

The building envelope should allow for a minimum of 5-hours of sunlight onto the Avenue sidewalks from March 21st - September 21st.

 Front Façade: Pedestrian Perception and live. Step-back

"Pedestrian Perception" step-backs may be required to mitigate the perception of height and create comfortable pedestrian conditions.

4C. Front Façade: Alignment

The front street wall of mid-rise buildings should be built to the front property lines or applicable setback lines.

SA. Rear Transition to Neighbourhoods: Deep

The transition between a deep Avenue property and areas designated Neighbourhoods, Parks and Open Space Areas, and Natural Areas to the rear should be created through setback and angular plane provisions.

Rear Transition to Neighbourhoods: Shallow

The transition between a shallow Avenue property and areas designated Neighbourhoods, Parks and Open Space Areas, and Natural Areas to the rear should be SD. Rear Transition to Apartment Neighbourhoods

The transition between an Avenue property and areas designated Apartment Neighbourhoods to the rear should be created through setbacks and other provisions.

Corner Sites: Heights & Angular Planes
On corner sites, the front angular plane
and heights that apply to the Avenue
frontage will also apply to the secondary
street frontage.

7A. Minimum Sidewalk Zones

Mid-rise buildings may be required to be set back at grade to provide a minimum sidewalk zone.

7B. Streetscapes

Avenue streetscapes should provide the highest level of urban design treatment to create beautiful pedestrian environments and great places to shop, work and live.

8A. Side Property Line: Continuous Street Walls

Mid-rise buildings should be built to the side property lines.

8B. Side Property Line: Limiting Blank Side Walls

Blank sidewalls should be designed as an architecturally finished surface and large expanses of blank sidewalls should be avoided.

BC. Side Property Line: Step-backs at Upper Storeys

There should be breaks at upper storeys between new and existing mid-rise buildings that provide sky-views and increased sunlight access to the sidewalk. This can be achieved through side step-backs at the upper storeys.

8D. Side Property Line: Existing Side Windows

Existing buildings with side wall windows should not be negatively impacted by Building Width: Maximum Width Where mid-rise building frontages are more than 60 metres in width, building façades should be articulated or "broken up" to ensure that façades are not overly long.

10. At-Grade Uses: Residential

Where retail at grade is not required, and residential uses are permitted, the design of ground floors should provide adequate public/private transition, through setbacks and other methods, and allow for future conversion to retail uses.

Setbacks for Civic Spaces
 In special circumstances where civic or public spaces are desired, additional setbacks may be encouraged.

12. Balconies & Projections

Balconies and other projecting building elements should not negatively impact the public realm or prevent adherence to other Performance Standards.

Roofs & Roofscapes

Mechanical penthouses may exceed the maximum height limit by up to 5 metres but may not penetrate any angular planes.

 Exterior Building Materials Buildings should utilize high-quality materials selected for their permanence, durability and energy efficiency.

 Façade Design & Articulation Mid-rise buildings will be designed to support the public and commercial function of the Avenue through well articulated and appropriately scaled façades.

16A. Vehicular Access

Whenever possible, vehicular access should be provided via local streets and rear lanes, not the Avenue. Loading & Servicing

Loading, servicing, and other vehicular related functions should not detract from the use or attractiveness of the pedestrian realm.

18. Design Quality

Mid-rise buildings will reflect design excellence and green building innovation, utilizing high-quality materials that acknowledge the public role of the Avenues.

19A. Heritage & Character Areas All mid-rise buildings on the Avenues should respect and be sensitively integrated with heritage buildings in the context of Heritage Conservation Districts.

198. Development in a HCD

The character and values of HCDs must be respected to ensure that the district is not diminished by incremental or sweeping change.

19C. Development Adjacent to a Heritage Property

Development adjacent to heritage properties should be sensitive to, and not negatively impact, heritage properties.

19D. Character Area: Fine Grain Fabric New mid-rise buildings in Character Areas that have a fine grain, main street fabric should be designed to reflect a similar rhythm of entrances and multiple retail units.

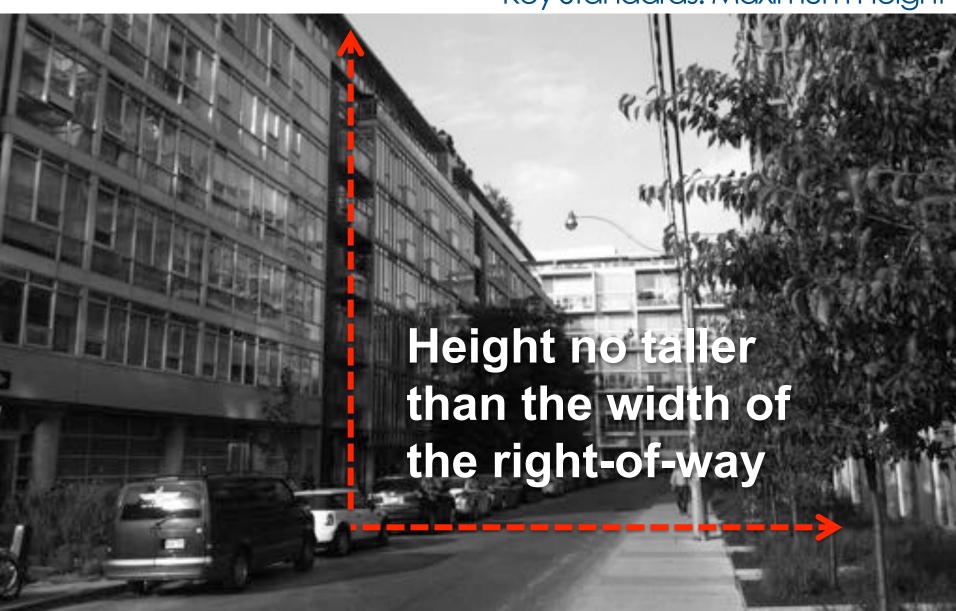
19E. Character Area: Consistent Comice Line

Buildings in a Character Area should maintain a consistent cornice line for the first step-back by establishing a "datum line" or an average of the existing cornice line.

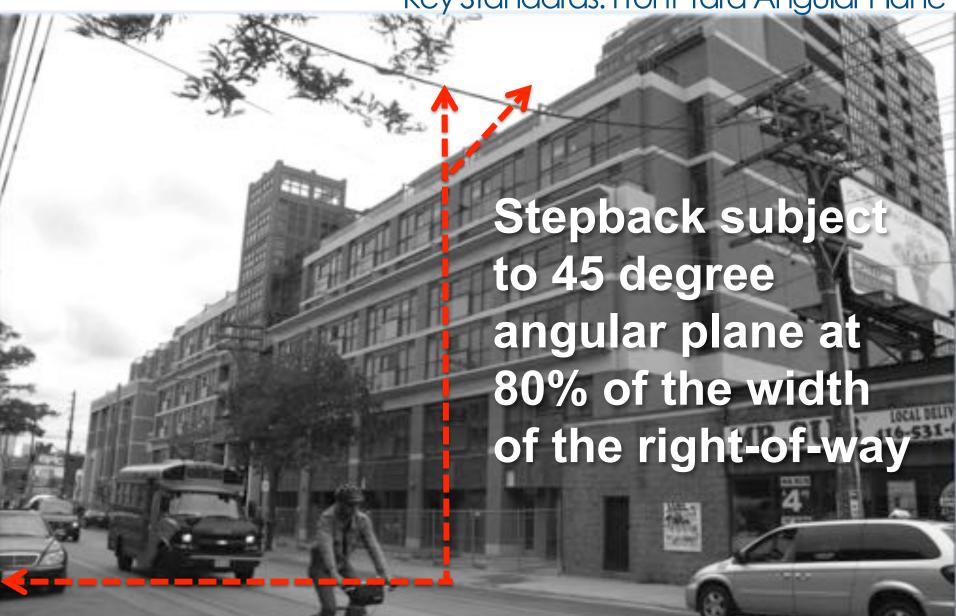
19F. Character Area: Vertical Additions Additions to existing buildings is an alternative to redevelopment projects on the Avenues, and should be encouraged in areas with an existing urban fabric.

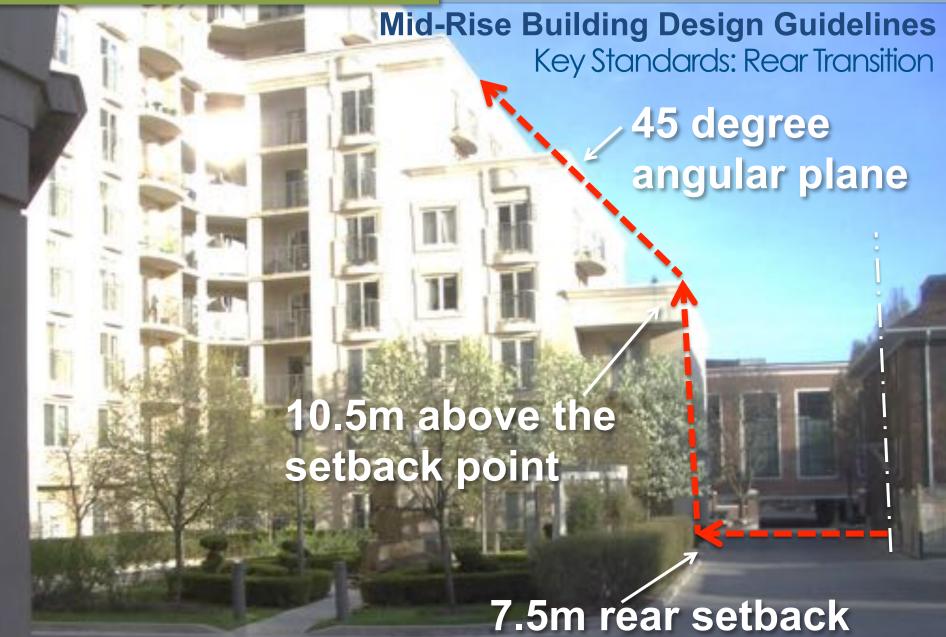
19G. Character Area: Other Considerations

Key Standards: Maximum Height

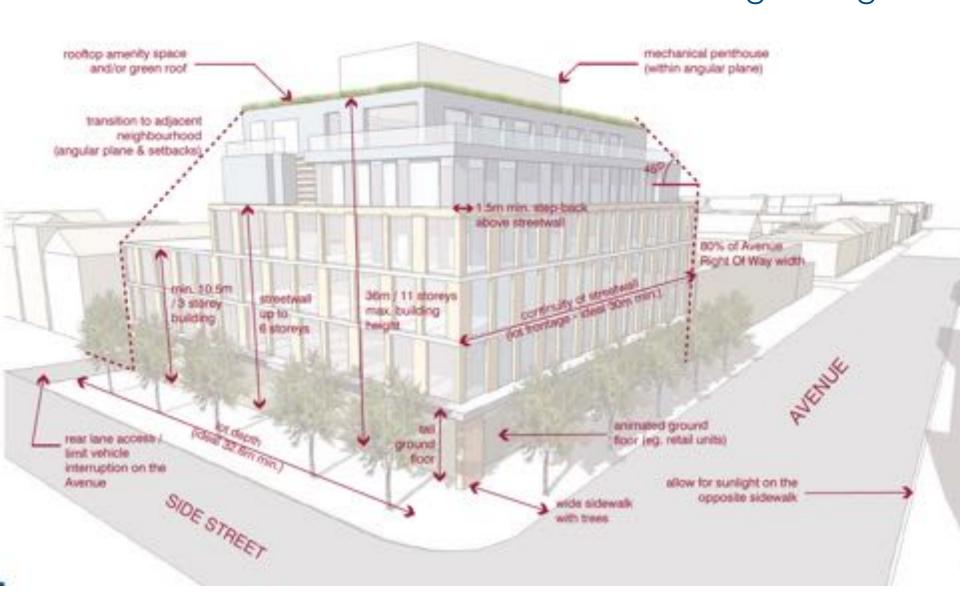


Mid-Rise Building Design Guidelines Key Standards: Front Yard Angular Plane

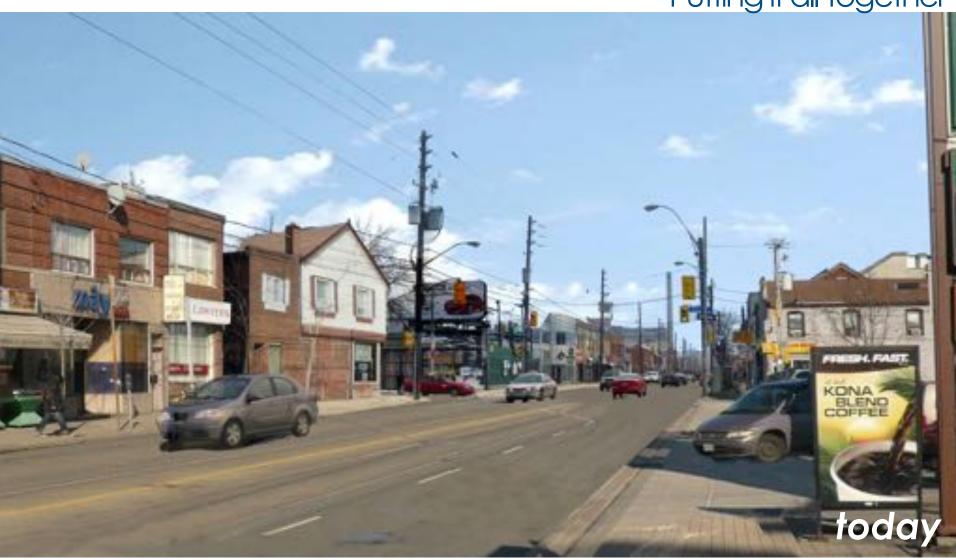




Mid-Rise Building Design Guidelines Putting it all Together



Putting it all Together



Demonstration of potential evolution of a 20 metre wide Avenue through mid-rise built form.

Putting it all Together



Demonstration of potential evolution of a 20 metre wide Avenue through mid-rise built form.

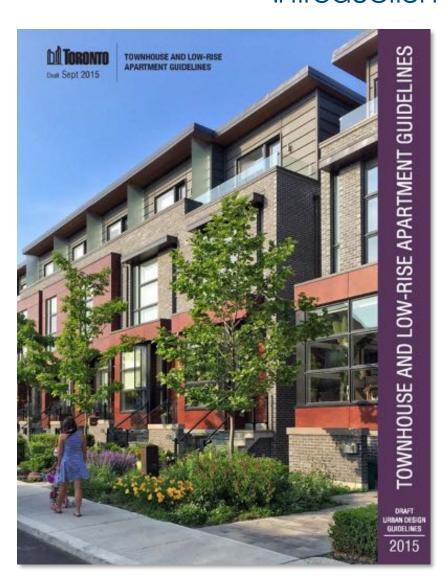
Putting it all Together



Demonstration of potential evolution of a 20 metre wide Avenue through mid-rise built form.

Townhouse & Low-Rise Apartment Guidelines Introduction

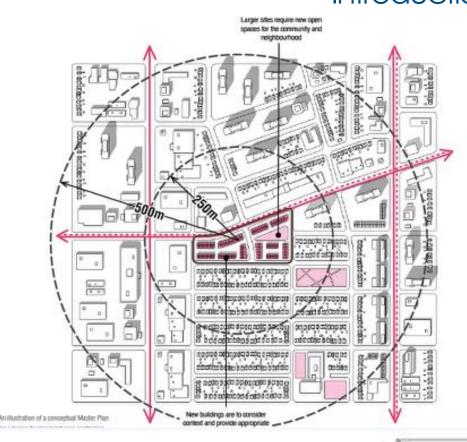
- Infill Townhouse Guidelines 2003
- Doesn't address large sites or the more complex stacked and backto-back conditions
- Mid-rise and Tall Building Guidelines have since been created
- Townhouse and Low-rise Apartment guidelines the missing piece
- Draft completed and expected to launch in fall 2016
- Monitoring Period of a year

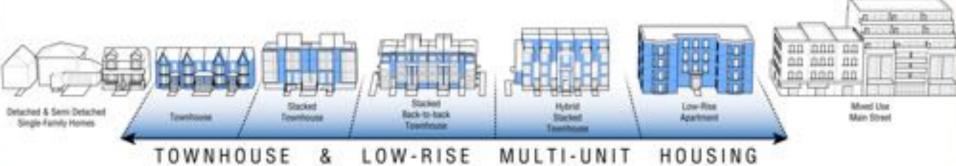


Townhouse & Low-Rise Apartment Guidelines Introduction

The guidelines address:

- townhouses through to stacked and back to back and low-rise apartments
- definition and illustration of each type
- site context and larger sites at the macro scale down to the micro scale of the design of building elements





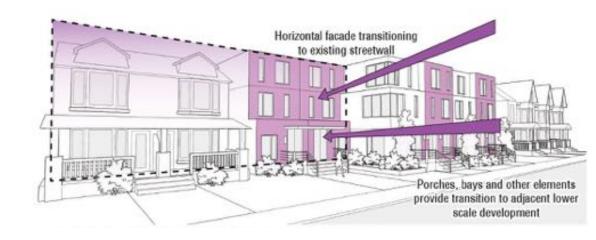
Townhouse & Low-Rise Apartment Guidelines Introduction

Introduction

- 1.0 Site Context
- 2.0 Site Organization
- 3.0 Building Configuration, Massing and Design
- 4.0 Pedestrian Realm Creating Place
- 5.0 Bringing It All Together

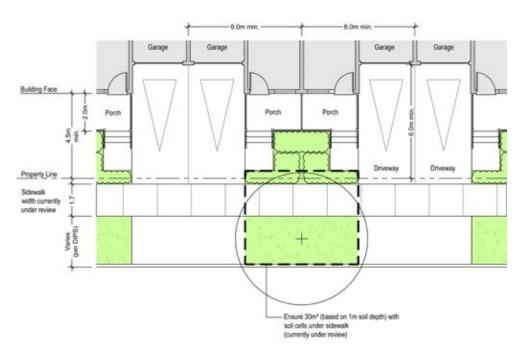
 E.G.s of Types and Development
 Scenarios
- 6.0 Glossary
- 7.0 Appendix Case Studies

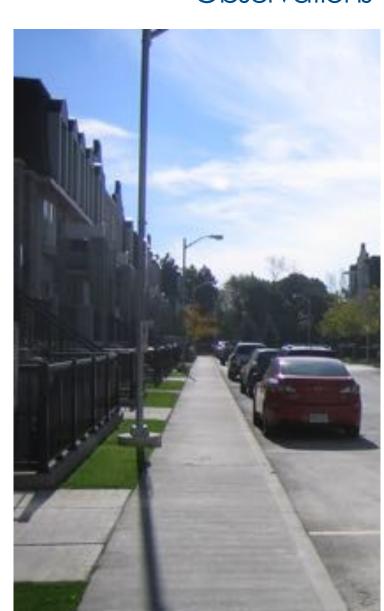




Townhouse & Low-Rise Apartment Guidelines Observations

- Unable to provide sufficient soil for street trees due to:
- Driveways to integral garages
- Inadequate front yard setbacks





Townhouse & Low-Rise Apartment Guidelines

Observations

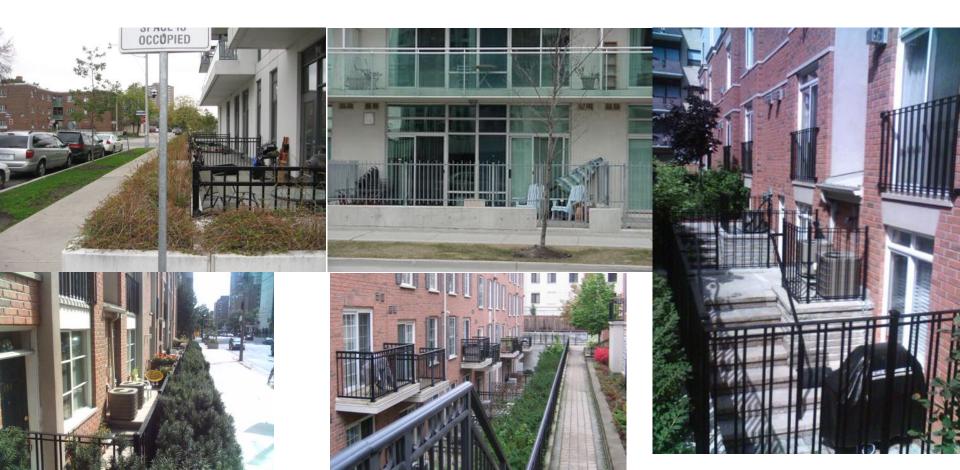
- Narrow facing separation distances 9-13 metres
- Height creep from 3.5 to 4 storeys (14.5 metres)
- Diminished separation distance combined with stacked private amenity spaces, stairs etc. often results in little sunlight into units and private amenity spaces





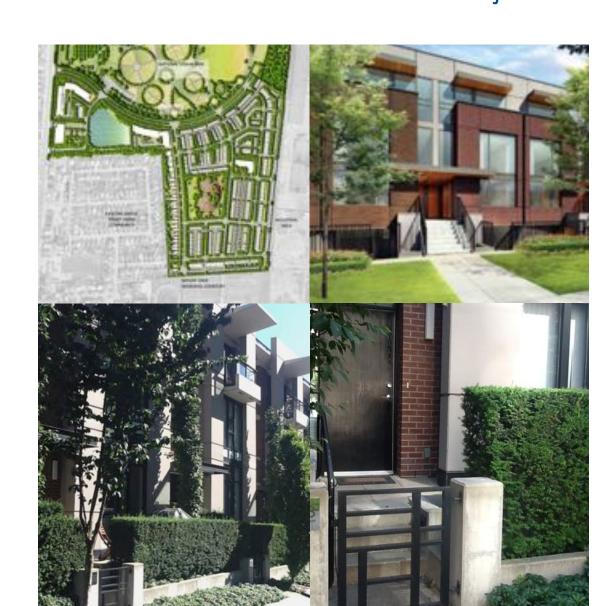
Townhouse & Low-Rise Apartment Guidelines Observations

- · Lack of positive transition from public to private
- spaces often used to store junk

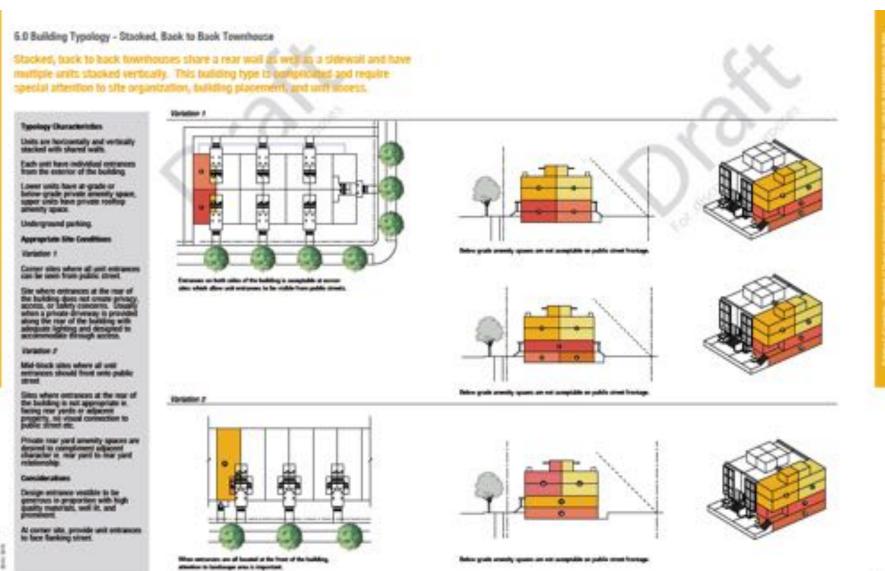


Townhouse & Low-Rise Apartment Guidelines Objectives

- Better site organization and connectivity
- More generous setbacks and separation distances
- Better 'fit' and transition with existing neighbourhoods
- Substantially improved design, detailing and materials



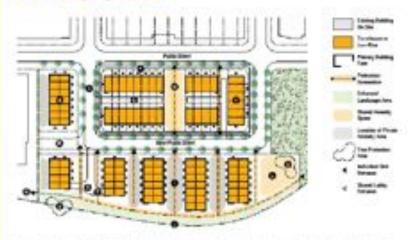
Townhouse & Low-Rise Apartment Guidelines Putting it all Together



Townhouse & Low-Rise Apartment Guidelines Putting it all Together

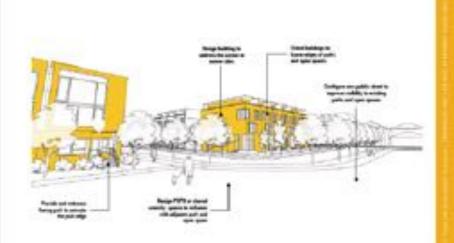
5.2.6 LARGE DEVELOPMENT WITH MULTIPLE DEVELOPMENT BLOCKS

Large sites with multiple blocks require a master plan to locate new streets, buildings, and parks/open spaces in order to integrate the new community into the surrounding neighbourhood.



- Provide a hear puzzle obset the provide address and advants for development and imprese valuably and access to the expelling parts. Name with auxiliary public obsets where provides.
- Private lupting has pet und informal being the chart pet private aperturbs fulfilling selfacts: by formig of acting and bloom planted model.
- Protect and accommodals writing bloss on oth by placing new faultings and commissions area from protestion class.
- Constitute anticiprised group series, series and feating staps at the and released requality providing bell providing.
- Intervalue series, Southing Season, and participal change within the features.
- Design and enlayable open decompared to the earling registers/west to providing appropriate halding software, angulation, and destruction. Providing one or baseling lates on large appropriate and realize blocks.
- Provide particing amount from public forms or phase provides where provides

- Draft stock making assortantive to an wide and designed benefits assorting to a service and wide benefits.
- Printle and designed probability make by transporting furthcase print, lighting, and infrared designs.
- J. Provide efficiency (antitudge prior) plong the object of object to be more opic discriptional force playant properties. Properties, where change of more one designation occurs per Systematicans contribute, morters, employment poors, organizational alternation to become a color to provide opportunite beachings builties.
- Street Suttings to trains edges of parts are specificated to provide reliability and accounts. Another shooting surfaining with the water being past.
- 1.64th PDPI and about preedy oppose or preprieth good accounts a surger and and coordinate durings with pales and parts and agent spaces in massed possible.
- Polited for Nazar public time? and peterstrips connections to adjacent ratio.



BATIONALE

Fulfix interest, perticiper oppine, and fuelt form of pertitogolism to deline a new public resident or longs often selfroutingle development blanks. The societies of fines here communities depends in platt on how self-it accomplishes as interface with its context. The originations of the building blacks on longs taken is untitled in creating a transition between execting and new communities. It is other for new developments respect the positive sharestation of its context and further selvence those attributes to create a collection could be optimized.

Public adverts are one of the bondamental building blocks to ally traditing. De large often, were public streets are often required to provide assess) to the test controversy. By aligning have observed to entirely ones, they faily alloy buyeline the communities. Public attentic and pediations conventions, bequired the obsticular activation of probability and construction for other should also be standified, considered, and construction for factors extensional already for probability.

Public participation and open spinors are setted to each one maphisochised and our for scale or an experimental determina for large table. They are cost squared and place makes which large a summittedly trapeline. Public paths should be traped. sample within any posses in the community with provised public color hydroge, posses to the view pod collight. Exportsomes is expand public parts are encouraged. POPS which work hydrod with existing upon special in minima the possible withing and own for the park.



First of the gave more recommendation of the statement of

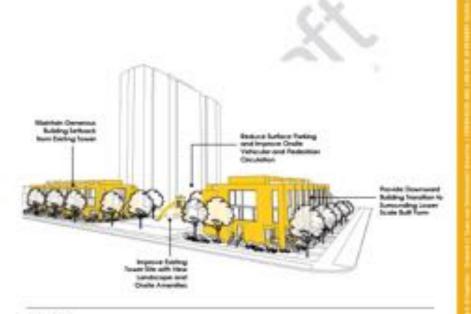
Townhouse & Low-Rise Apartment Guidelines Putting it all Together

5.4 Large parcel with tower and neighbourhood edge

Stacked, back to back townhouses share a rear wail as well as a sidewall and have multiple units stacked vertically. This building type is acmplicated and require special attention to site organization, building placement, and unit licoess.



- Provide building face and unit netronce facing street
- Place new holding positiot by public street and provide entrances with views to public street;
- Provide shared outdoor smeetly spaces for new development and broate indicer amontly spaces to connect with the outdoor space when appropriate.
- Disprise existing perfection walkurgs and private new committees to estimate committeely of the site in particularly resillated and
- Rev-divelopment along Bergittourhood edge some for designed to compliment and request the servables soft form, solds, and character of the seleptiourhood.
- integrate underground gasage samps into the new building where pussion or integrate other care such
- Improve amonto spaces and facilities for existing residents
- H: Improve garbage sharage, touthing, and servicing since of the exciting building by providing internal and integrate garbage and sixating areas. Sovice areas can be of the exciting building and the term develop more can be consolidated where appropriate.
- Improve exciting bankscaped areas including peterprise walkscaps, diverselys, surfacing parking and other landscape features.
- Proted and accommodate uniting trees on site by placing one haldlegs and construction away have protection more.
- Remove at much curbon parting and differency as prosition. Surface parting located at the front of the fluiding facing a public short are to be removed and replaced with landscape ureas.
 - Provide shalle producing trees and shrubs to screen surface parking area from sine:
- Terbook and insortes built from to align with adjacent hubbing selbudg and heights.
- Provide generacy, lambraged, and well-40 potentian sollowing through large blocks to commit size with adjacent enighbourhooks and americae.



RATIONALE

A will-designed and vibrant streetscape is vital to the situraction and quality of the building site and the summarising quiblic region, as well as to the brasility of the City.

All bulleting fromtoges facing public streets, public, and specispice must safely and confundity accommodate pedestrian resourcest, street furnishings, lighting, bicycle parting, and landscaping.

An obal politorian environment includes street mere for stude and greenery plantings for essuand consty and interest, profestion outer lighting for softly and appearance and permaping paring and polit landscaping for water infiltration. New development (hould improve the adjacent Insulance)s and statemarks by incorporating pedication lighting, attest treas; describing participating and other Survivor (where applicable) as authored in the City of Suranta Streeticage Manual. Allowance for pedications, sycling, material substy is sightlined; and traintenance need to be included.
The guarantees apply to both prison and public streets, AL streets should have an exact appropriate planting lines. It is beneficial to have an exact appropriate planting feedure as proable to enable the tree to give to massering (bit to tree and proach). Secondary of the tree and proach.

the benefit that the tree will provide to the environment.

challenges & lessons learned

Lessons Learned

- 1/ Establishing standards for the lowest common denominator
- 2/ Reinforce with policies for quantitative measures
- 3/ Staff training to facilitate discretionary decisions
- 4/Performance based approach best for flexibility
- 5/Density measures are necessary

Challenges Ahead

- 1/ Neighbourhoods
- 2/ The missing Middle
- 3/ Large Mixed-Use sites
- 4/Unconventional types super tall, laneway
- housing, incremental on main street
- 5/capacity building for stylistic sensibility