

# 2022

## ASSESSMENT METHODOLOGY

### RESIDENTIAL CONDOMINIUM - HIGHRISE

A summary of the methods used by the City of Edmonton in determining the value of residential highrise condominium properties in Edmonton for assessment purposes.

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Edmonton



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## Scope

This guide explains how residential condominium properties are valued for assessment purposes. The guide is intended as a tool and compliments the assessor's judgment in the valuation process.

## Introduction

Property assessments in the City of Edmonton are prepared in accordance with the requirements of the *Municipal Government Act*, R.S.A. 2000, c. M-26 (hereinafter "MGA") and the *Matters Relating to Assessment and Taxation Regulation, 2018*, Alta Reg 203/17, (hereinafter "MRAT"). The MRAT regulation establishes the valuation standard to be used, defines the procedures to be applied, and proposes objectives for the quality to be achieved in the preparation of assessments. The legislation requires the municipality to prepare assessments that represent market value by application of the mass appraisal process. All assessments are expected to meet quality standards prescribed by the province in the MRAT regulation.

Property assessments represent:

- an estimate of the value;
- of the fee simple estate in the property;
- as the property existed on December 31, 2021;
- reflecting typical market conditions;
- as if the property had been sold on July 1, 2021;
- on the open market;
- from a willing seller to a willing buyer.

The assessment is a prediction of the value that would result when those specific, defined conditions are met.

The legislation requires the City of Edmonton to assess the fee simple estate.

"Fee simple interest [is] absolute ownership unencumbered by any other interest or estate... leased fee interest [is] the ownership interest held by the lessor, which includes the right to the contract rent specified in the lease plus the reversionary right when the lease expires... leasehold interest [is] the interest held by the lessee (the tenant or renter) through a lease conveying the rights of use and occupancy for a stated term under certain conditions."

*Appraisal Institute of Canada, **The Appraisal of Real Estate Third Canadian Edition**,  
Vancouver, Canada, 2010, page 6.4*

Both *market value* and *property*, along with additional terms are defined in the *MGA* and *MRAT* :

s.284(1)(r) "**property**" means

- (i) a parcel of land
- (ii) an improvement, or
- (iii) a parcel of land and the improvements to it

*MGA .s.284(1)(r)*

s.1(k) "**regulated property**" means

- (i) land in respect of which the valuation standard is agricultural use value,
- (ii) designated industrial property, or
- (iii) machinery and equipment

*MRAT s.1(k)*

s.9(1) the **valuation standard** for the land and improvements is market value unless subsection (2)... applies

*MRAT s.9(1)*

s.1(1)(n) "**market value**" means the amount that a property, as defined in section 284(1)(r), might be expected to realize if it is sold on the open market by a willing seller to a willing buyer

*MGA s.1(1)(n)*

s.5 An assessment of property based on **market value**

- (a) must be prepared using mass appraisal,
- (b) must be an estimate of the value of the fee simple estate in the property, and
- (c) must reflect typical market conditions for properties similar to that property

*MRAT s.5*

s.289(2) Each assessment must reflect

- (a) the characteristics and physical condition of the property on **December 31** of the year prior to the year in which a tax is imposed

*MGA s.289(2)(a)*

s.6 Any assessment prepared in accordance with the Act must be an estimate of the value of a property on **July 1** of the assessment year

*MRAT s.6*

s.1(g) "**mass appraisal**" means the process of preparing assessments for a group of properties using standard methods and common data and allowing for statistical testing

*MRAT s.1(g)*

## Mass Appraisal

Mass appraisal is the legislated methodology used by the City of Edmonton for valuing individual properties, and involves the following process:

- properties are stratified into groups of comparable properties
- common property characteristics are identified for the properties in each group
- a uniform valuation model is created for each property group

31(c) **“valuation model”** means the representation of the relationship between property characteristics and their value in the real estate marketplace using a mass appraisal process

*MRAT s.31(c)*

The following two quotations indicate how the International Association of Assessing Officers distinguishes between mass appraisal and single-property appraisal:

“... single-property appraisal is the valuation of a particular property as of a given date: mass appraisal is the valuation of many properties as of a given date, using standard procedures and statistical testing.”

“Also, mass appraisal requires standardized procedures across many properties. Thus, valuation models developed for mass appraisal purposes must represent supply and demand patterns for groups of properties rather than a single property.”

*Property Appraisal and Assessment Administration, pg. 88-89*

For both mass appraisal and single-property appraisal, the process consists of the following stages:

	Mass Appraisal	Single Appraisal
<b>Definition and Purpose</b>	Mass appraisal is used to determine the assessment base for property taxation in accordance with legislative requirements	The client specifies the nature of the value to be estimated, this includes: rights to be valued, effective date of valuation, and any limiting conditions.
<b>Data Collection</b>	Mass appraisal requires a database of property characteristics and market information.	The extent of data collection is specific to each assignment and depends on the nature of the client's requirements.
<b>Market Analysis</b>	Mass appraisal is predicated on highest and best use.	Market analysis includes the analysis of highest and best use
<b>Valuation Model</b>	Valuation procedures are predicated on groups of comparable properties.	Subject property is the focus of the valuation. The analysis of comparable properties is generally six or less
<b>Validation</b>	The testing of acceptable analysis and objective criteria	The reliability of the value estimate is more subjective. Acceptability can be judged by the depth of research and analysis of comparable sales

## Valuation Model

A valuation model creates an equation of variables, factors and coefficients that explains the relationship between estimated market value and property characteristics. An assessed value is then calculated by applying the appropriate valuation model to individual properties within a property type.

s31 (a) **“coefficient”** means a number that represents the quantified relationship of each variable to the assessed value of a property when derived through a mass appraisal process

(b) **“factor”** means a property characteristic that contributes to a value of a property;

(d) **“variable”** means a quantitative or qualitative representation of a property characteristic used in a valuation model

*MRAT, s.31 (a), (b) and (d)*

s.33 Information prescribed ... does not include coefficients

*MRAT, s.33(3)*

### Valuation Model

- variables are identified from property characteristics
- statistical analysis determines how variables affect market value
- factors and coefficients are determined
- the resulting valuation models are applied to property characteristics

## Property Groups

**Residential Condominiums Units** are individual units that are typically part of a larger building site or complex. Each unit is described on the condominium plan registered with the Land Titles Office, typically has its own certificate of title, and can be bought and sold separately. A residential condominium complex may include both living units and accessory units.

Assessment of condominium unit

290.1(1) Each unit and the share in the common property that is assigned to the unit must be assessed

(a) in the case of a bare land condominium, as if it is a parcel of land, or

(b) in any other case, as if it is a parcel of land and the improvements to it.

(2) In this section, “unit” and “share in the common property” have the meanings given to them in the Condominium Property Act. 1

*MGA s.290.1(1) and (2)*

## Approaches to Value

The approaches to determine market value are the direct comparison, income, and cost approaches.

### Direct Comparison Approach

Typical market value (or some other characteristic) is determined by referencing comparable sales and other market data. It is often used when sufficient sales or market data is available. It may also be referred to as the Sales Comparison Approach.

### Income Approach

This approach considers the typical actions of renters, buyers and sellers when purchasing income-producing properties. This approach estimates the typical market value of a property by determining the present value of the projected income stream. Often used to value rental or leased property.

### Cost Approach

Typical market value is calculated by adding the depreciated replacement cost of the improvements to the estimated value of land. It is often used for properties under construction or when there is limited market data available.

## Direct Comparison Approach

For this property group, the assessment is determined using the direct sales approach. It is the most appropriate method of valuation for Condominium Units in the City of Edmonton because it mirrors the actions of buyers and sellers in the marketplace and sufficient sales data exists in order to derive reliable market estimates.

The income approach is not used in the valuation of this property group as this approach is more applicable to income producing properties or in limited markets. The majority of these properties in this inventory are owner occupied with only a small portion of the inventory traded based on the property's ability to generate income.

The cost approach may be used to determine the value of condominium units while under construction and partially complete. Once construction is completed, condominium units are valued using the sales comparison approach.

The City of Edmonton validates all land title transactions (sales). The validation process can include site inspections, interviews with parties involved, a review of land title documents, corporate searches, third party information, and sale validation questionnaires.

The City of Edmonton reviews *four years of sales* occurring from July 1, 2017 to June 30, 2021 for valuation of Residential Condominium Units in high rise, lowrise properties, and townhouse

properties. Time adjustments are applied to living unit sale prices to account for any market fluctuations occurring between the sale date and the legislated valuation date. For the accessory condominium unit inventory, to ensure sufficient sales, 10 years of sales were used (July 1, 2011 to June 30, 2021).

**Sale price reflects the condition of a property on the sale date and may not be equal to the assessment.**

## Zoning

The rules and regulations for land development within Edmonton are contained in the Zoning Bylaw, No. 12800.

s.6.123 **zone:** a specific group of listed Uses and Development Regulations which regulate the Use and Development of land within specific geographic areas of the City...

**Zoning Bylaw No. 12800, 2017, s. 6.123**

Residential land use zones vary in part due to density.

s.6.24 **density:** when used in reference to Residential and Residential-Related development, the number of Dwellings on a Site expressed as Dwelling per hectare.

**Zoning Bylaw No. 12800, 2017, s. 6.24**

Not all properties conform to the zoning use set out in the Edmonton Zoning Bylaw. When property doesn't conform to the zoning bylaw, property assessors apply effective zoning. Effective zoning helps ensure that a property is grouped with and compared to similar properties—based on the current use of the land and not on what it's permitted to be developed as (e.g. a legal non-conforming use).

643(1) If a development permit has been issued on or before the day on which a land use bylaw or a land use amendment bylaw comes into force in a municipality and the bylaw would make the development in respect of which the permit was issued a nonconforming use or nonconforming building, the development permit continues in effect in spite of the coming into force of the bylaw.

**MGA, s.643(1)**

## Highrise Condominium Complexes

Highrise Condominium Complexes include two types of units.

### Highrise Condominium Units

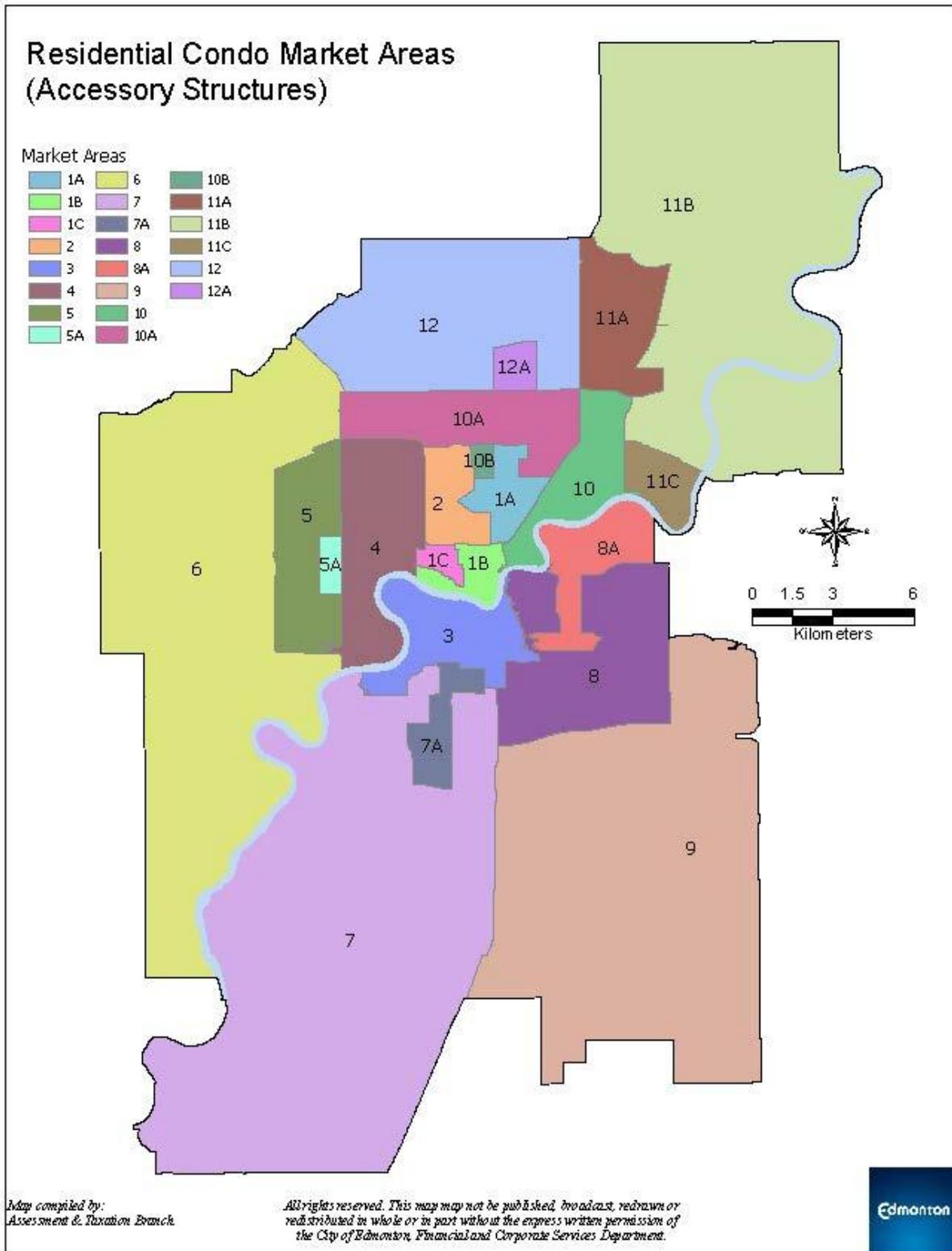
Condominium units are living units that are “apartment style” and the condominium building is **six stories or greater**.

“apartment style” refers to a residential structure with several individual apartments with a common entrance and hallway.

### Accessory Condominium Units

Accessory Condominium Units include Accessory Structure Units, Parking Units, and Common Area Units. There is one valuation model that encompasses Accessory Condominium Units.





## Variables

Not all variables affect market value. Below is the list of variables that affect the assessment value for 2022.

Highrise Condominium Units		
Unit Attributes		Building Attributes
Balcony	Space Type	Condominium Complex
Condition	Unit Location	Effective Year Built
Floor Level	Unit Net Area	Year Built
Full Bathrooms	View	
Renovations or Upgrades		

Accessory Condominium Units		
Market area	Unit type	Parking type
Year built		

## Highrise Condominium Unit attributes

The following unit attributes affecting assessment value are as listed (alphabetically):

**Balcony:** The presence of a private exterior space allocated to an individual unit.

**Condition:**

- **Derelict property** – Usually, derelict properties have exterior doors and windows boarded up and are uninhabitable on the basis of an order from Alberta Health Services, a Safety Codes Officer or the City of Edmonton.
- **Deferred maintenance** - General maintenance, typical for the age of the condominium unit, has not been performed and a few items need immediate repair.

- **Original** - average (or better) maintenance has taken place.

**Floor level:** The floor level location where a living unit is situated within the condominium complex (e.g, 2<sup>nd</sup> floor). Living units on higher floor levels typically have higher market values due to desirability.

**Full bathrooms:** The number of full bathrooms in a unit. Full bathrooms include a sink, toilet, and at least one separate shower or bath.

### Renovations or upgrades

- **Minor:** The unit has one or several cosmetic upgrades: for example, new paint, flooring, electrical fixtures, countertops, cabinet doors or painted interior doors. Or, the unit is considered to be upgraded when compared to the “base” units typically found within a newly constructed condominium complex.
- **Moderate:** The unit has a combination of cosmetic and extensive upgrades: for example, new kitchen and bathroom cabinets, paint, flooring, electrical and plumbing fixtures, countertops or painted interior doors. The scope of renovations under the moderate factor affects the majority of the unit rather than just one room. The quality of renovations is similar to or slightly better than the original quality of construction.
- **Major:** The unit is fully upgraded. It may have, for example, new kitchen and bathroom cabinets, paint, flooring, electrical and plumbing fixtures, countertops or painted interior doors. The scope of renovations under the major factor affects the majority of the unit rather than just one room. The quality of renovations is significantly better than the original quality of construction. The condominium unit may have custom built features or characteristics not generally found in the market.

**Space type:** The space type of a living unit describes how many bedrooms are present and whether there are any Dens or Lofts.

- **Bachelor unit:** Bachelor/studio suites are those that lack the separating walls found in one bedroom suites and up.
- **One bedroom unit:** This variable defines a unit with only one bedroom.
- **Two bedroom unit:** This variable defines a unit with one bedroom and den, or two bedrooms. The base space type for the highrise condominium inventory is a two bedroom unit.
- **Three bedroom unit:** This variable defines a unit with two bedrooms and a den, or three bedrooms. This unit is not a penthouse.
- **Four bedroom unit and up:** This variable defines a unit that has greater than three bedrooms. This unit is not a penthouse.
- **Penthouse:** A penthouse unit in a lowrise or highrise that is typically located on the top floor, more luxurious, and larger than other units within the building. Occasionally these units may be located below the highest floor, but this type of penthouse is usually the only

residential living unit on an entire floor and are superior to typical units in the condominium complex.

The above space types can also include one of the following features:

- **Den:** A den is similar to another bedroom but lacks a closet or window or solid door
- **Loft:** A partial upper floor in a condominium unit where there are no partitions or doors. Typically, this results in significantly higher ceilings in other areas of the unit.

**Unit location :** Location within the building of the unit relative to other units within the building.

- **Corner unit** - Unit is on the corner of the floor, typically with two outside walls at right angles.
- **End unit** - Unit is on the end of the floor, typically with three outside walls.
- **Inside unit** - Unit is on the inside of the floor, typically with one or two outside walls. Inside unit is not a Corner unit or End unit.
- **Only unit on floor** - Unit is the only residential unit on the floor.

**Unit net area:** For highrise condominiums, net area measurements are taken directly from the registered condominium plan.

**Views:** The view variables that affect the assessment value are listed below. A view can be open or limited. For example, a unit with a view of a courtyard could be either, courtyard view-open, or courtyard view-limited. A view may be either a negative or a positive attribute.

- **Open** - View is unobstructed and or directly in front of the subject unit or dwelling.
- **Limited/Obstructed** - View is obstructed, limited, or not directly facing the unit. For example, the view could be partly obstructed by a building or tree, or far away from the unit or dwelling.

#### Commercial view

A condominium unit has a view of a commercial property like a strip mall, grocery store or shopping center. A commercial view has a negative impact on the unit's assessed value.

#### Courtyard view

A condominium unit which has a view of a courtyard. A courtyard is an open, unroofed area surrounded by the walls of a building or complex. Only an *open* courtyard view has a positive impact on a property's assessed value.

#### Golf course view

A condominium unit has a view of a golf course. A golf course view has a positive impact on a property's assessed value.

#### Park view

A condominium unit has a view of a park (green space with trees or playgrounds). The park is located directly in front of a unit's windows. Only an *open* park view has a positive impact on a property's assessed value.

### River valley view

A condominium unit has a view of the North Saskatchewan River Valley (land included in the City's *North Saskatchewan River Valley and Ravine System Protection Overlay*). A river valley view has a positive impact on a property's assessed value.

### Street view

A condominium unit has a view of a neighbourhood street primarily used by local traffic. Only an *open* street view has a positive impact on a property's assessed value.

## Building attributes

The following building attributes affecting assessment value are as listed (alphabetically):

**Condominium Complex:** A condominium complex refers to a building, or group of buildings, usually associated with a common condominium plan. For highrise condominiums, the condominium complex variable is intended to capture the quality, and geographic location of the complex.

**Effective year built:** The effective year built is the age of a condominium building adjusted for any physical changes that affect market value.

For example, a condominium building that has been damaged by fire and fully rebuilt may have a newer effective year built than its actual year built. Same applies when the condominium building goes through extensive renovations as part of its maintenance of quality and value.

When the effective year built differs from the original year built, the effective year built is used in determining the value of a property.

It allows not only to compare the property to a typical property built that year but also takes into consideration the overall usability and condition of the condominium.

**Year built:** The year that a condominium building was originally constructed. If construction spanned over several years, this is the first year of construction.

## Accessory Condominium Units

**Market area:** A geographic area, typically encompassing a group of neighbourhoods. The purpose of a market area is for market analysis. These borders are similar to those defined by the CMHC (Canada Mortgage and Housing Corporation) zones. Please refer to the Residential Condo Market Areas (Accessory structures) map within this methodology guide.

### Unit type

#### Accessory Structure Unit

Individually titled units that do not conform to any other unit type. For example, these include storage units.

### Parking Unit

Individually titled units designed for parking including surface, garage and underground parking units.

### Common Area Unit

Any unit that is not registered as a living unit, parking unit or an accessory structure unit.

### **Parking Unit type**

- **Surface parking:** Parking located on ground level or higher that is not covered or may be covered but has little protection from outside elements.
- **Underground parking:** Parking located in an underground structure that provides much more protection than surface parking. Though typically heated, these parkades protect against the elements to such a degree that even when unheated they provide more warmth than parking outside.
- **Garage parking:** Fully enclosed parking in an above-ground structure. Though typically heated, these structures protect against the elements to such a degree that even when unheated they provide more warmth than parking outside.

**Year built:** The year that the parking structure was originally constructed. If construction spanned over several years, this is the first year of construction.

## Adjustments

- **Condominium complex adjustment**

Not all condominium complexes may decrease/increase in value at the same rate as the typical annual decrease/increase found in the time adjustment analysis. Where market evidence demonstrates that a condominium complex or group of units in a condominium complex display different tendencies than the other similar complexes or groups of units, a condominium complex adjustment may be applied to ensure the assessment accurately reflects market value. A condominium complex adjustment, generally a percentage, is based on market evidence and other considerations. It may be an upward or downward adjustment.

## Sample Assessment Detail Report

The factors and variables used to calculate each individual property assessment are displayed in the Factors Used to Calculate section of each property's *Assessment Detail Report*. "**Type**" specifies whether the variable applies to the unit, site or a specific building:

- Unit - An adjustment that is applied to a condominium unit.
- Site - An adjustment that is applied to the parcel of land only.
- Building - An adjustment that is applied to the improvement only.

### **Neighbourhood:**

- A Neighbourhood is a geographical area as defined by the City of Edmonton. Maps identifying neighbourhood boundaries are accessible on the City website, <http://maps.edmonton.ca/map.aspx> (choose "Neighbourhood" in the "I'm looking for" drop-down menu). Neighbourhood is provided on the detail report for information purposes only.

## 2022 Property Assessment Detail Report Assessment and Taxation



Account XXXXXXX

<b>Report Date</b>	December 13, 2021
<b>2022 Assessed Value</b>	<b>\$412,000</b>
<b>Date of Issue</b>	January 14, 2022
<b>Property Address</b>	XXX XXXXX XXX STREET NW
<b>Legal Description</b>	Plan: XXXXXXXX Unit: XXX
<b>Zoning</b>	RA9 - High Rise Apartment District
<b>Effective Zoning</b>	RA9 - High Rise Apartment District
<b>Neighbourhood</b>	Strathcona
<b>Assessment Class</b>	RESIDENTIAL
<b>Property Use</b>	100% Highrise condominium
<b>Taxable Status</b>	January 1 - December 31, 2022; FULLY TAXABLE
<b>Unit of Measurement</b>	METRIC (metres, square metres)

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### Factors Used to Calculate Your 2022 Assessed Value

VARIABLE	FACTOR	MARKET VALUE APPROACH	
		TYPE	DIRECT COMPARISON
Neighbourhood	STRATHCONA	Site	
Year built	1979	Building	
Effective year built	1979	Building	
Unit net area	180	Unit	
Floor level	FLOOR 19	Unit	
Unit location	END UNIT	Unit	
Space type	TWO BEDROOMS	Unit	
Full bathrooms	2 OR MORE	Unit	
Balcoony	YES	Unit	
River valley view	OPEN	Unit	

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## Methods to Adjust Comparables

There are two techniques for adjusting comparables: **quantitative** and **qualitative**.

### Quantitative Adjustments

Each characteristic of a property can be measured or quantified by a mathematical expression and adjusted for.

*Several techniques are available to quantify adjustments to the sale prices of comparable properties: data analysis techniques such as paired data analysis, grouped data analysis, and secondary data analysis, statistical analysis, including graphic analysis...*

(AIC, 2010, p. 14.2)

*In the direct comparison approach, the best comparables are those sales that require the least **absolute** adjustment.*

(AIC, 1995, p. 245).

Quantitative adjustments involve adjusting a known value (sale price for example) by adding or subtracting an amount that a given characteristic adds to or subtracts from that value. A quantitative adjustment should be made for each characteristic that differs between the subject property and the comparable property.

Due to the legislative requirement to use mass appraisal, the City has used statistical analysis to determine annual assessments.

*"coefficient" means a number that represents the quantified relationship of each variable to the assessed value of a property when derived through a mass appraisal process.*

**MRAT s.31(a)**

The City is not required to disclose the coefficients. In the absence of quantitative adjustments, an alternative technique is qualitative analysis.

## Qualitative Analysis

Each comparable property is compared with the subject property on an overall basis. In a qualitative analysis, comparable properties are identified as inferior, similar, or superior overall to the subject property in order to bracket the probable value range of the subject property.

*When a sale property is considered to offer important market evidence but finding the means to make quantitative adjustments is lacking, the appraiser may turn to other major direct comparison techniques, qualitative analysis.*

(AIC, 2005, p. 19.10)

*Qualitative analysis recognizes ... the difficulty in expressing adjustments with mathematical precision.*

(AIC, 2010, p. 14.6 )

*...reliable results can usually be obtained by bracketing the subject between comparables that are superior and inferior to it.*

(AIC, 2010, p. 14.7)

*If one or two comparable properties require fewer total adjustments than the other comparable transactions, an appraiser may attribute greater accuracy and give more weight to the value indications obtained from these transactions, particularly if the magnitude of the adjustments is approximately the same.*

(AIC, 2010, p. 13.16)

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## Appendix

### Zone Chart: Residential Condominiums

<b>RF5</b>	<b>Row Housing Zone (s. 160)</b> is to provide for relatively low to medium density housing, generally referred to as Row Housing.
<b>RF6</b>	<b>Medium Density Multiple Family Zone (s. 170)</b> is to provide for medium density housing, where some units may not be at Grade.
<b>RA7</b>	<b>Low Rise Apartment Zone (s. 210)</b> provides for lowrise apartment buildings.
<b>RA8</b>	<b>Medium Rise Apartment Zone (s. 220)</b> provides for medium-rise apartment buildings.
<b>RA9</b>	<b>High Rise Apartment Zone (s. 230)</b> provides for highrise apartment buildings.
<b>RMD</b>	<b>Residential Mixed Dwelling Zone (s. 155)</b> is to provide for a range of dwelling types and densities including single detached, semi-detached, and row housing.
<b>UCRH</b>	<b>Urban Character Row Housing Zone (s. 165)</b> is to provide for medium density Row Housing in a manner that is characteristic of urban settings and can include more intensive development.

\*For zonings not listed above, please see zoning bylaw 12800.

### Measure Conversion Chart

Imperial to Metric – Length	Imperial to Metric – Area
1 inch (in) = <b>2.54</b> centimetres (cm)	1 square foot (sqft) = <b>0.09290</b> square metre (m <sup>2</sup> )
1 foot (ft) = <b>0.3048</b> metres (m)	1 acre (ac) = <b>4,046.86</b> square metre (m <sup>2</sup> )
	1 acre (ac) = <b>0.40469</b> hectares (ha)
Imperial Conversions	Metric Conversions
1 acre (ac) = <b>43,560</b> square feet (sqft)	1 square kilometer (sq km) = <b>100</b> hectares (ha)
1 square mile = <b>640</b> acres (ac)	1 hectare (ha) = <b>10,000</b> square metres (m <sup>2</sup> )
1 section = <b>640</b> acres (ac)	

## Time Adjustment Factors

Time Adjustment Factor 2022 Residential Highrise Condominiums			
Date	TAF	Date	TAF
Jul-17	0.834	Jul-19	0.9042
Aug-17	0.834	Aug-19	0.9132
Sep-17	0.834	Sep-19	0.9224
Oct-17	0.834	Oct-19	0.9317
Nov-17	0.8359	Nov-19	0.941
Dec-17	0.8378	Dec-19	0.941
Jan-18	0.8397	Jan-20	0.941
Feb-18	0.8416	Feb-20	0.941
Mar-18	0.8436	Mar-20	0.941
Apr-18	0.8455	Apr-20	0.941
May-18	0.8474	May-20	0.941
Jun-18	0.8493	Jun-20	0.941
Jul-18	0.8513	Jul-20	0.941
Aug-18	0.8532	Aug-20	0.9506
Sep-18	0.8601	Sep-20	0.9603
Oct-18	0.867	Oct-20	0.9701
Nov-18	0.8739	Nov-20	0.9799
Dec-18	0.881	Dec-20	0.9899
Jan-19	0.888	Jan-21	1
Feb-19	0.8952	Feb-21	1
Mar-19	0.8952	Mar-21	1
Apr-19	0.8952	Apr-21	1
May-19	0.8952	May-21	1
Jun-19	0.8952	Jun-21	1