

Kaskitayo Outline Plan

Office Consolidation December 2015

Prepared by:

***Current Planning Branch
Sustainable Development
City of Edmonton***

The Kaskitayo Outline Plan was approved by resolution by Council in October 1973. In December 2015, this document was consolidated by virtue of the incorporation of the following amendments:

Kaskitayo Outline Plan approved by resolution October 23, 1973

Amendment approved by resolution January 26, 2005 (to replace intensive commercial development with the intensive redevelopment of a transit-oriented urban village with primarily residential uses complemented by commercial uses in a pedestrian friendly environment)

Amendment approved by resolution December 12, 2006 (to accommodate the development of housing for first homebuyers on a vacant surplus school building envelope located on a school/park site)

Amendment approved by resolution August 30, 2010 (to redesignate a Highway Commercial use site to Mixed Use Residential uses to allow for the development of a 19 storey building)

Amendment approved by resolution October 15, 2012 (to accommodate Medium Density Residential uses for seniors housing on surplus school building envelope located on a school/park site)

Amendment approved by resolution November 2, 2015 (to accommodate Medium Density Residential uses for a low rise apartment development on the radio transmitter tower site)

Amendment approved by resolution December 14, 2015 (to accommodate Medium Density Residential uses for low rise apartment and row housing development on an area equal to the vacant surplus school building envelopes of two school sites in Blue Quill)

Editor's Note:

This is an office consolidation edition of the Kaskitayo Outline as approved by resolution by City Council on October 23, 1973. This edition contains all amendments and additions to the Outline Plan.

For the sake of clarity, new maps and a standardized format were utilized in this Plan. All names of City departments have been standardized to reflect their present titles. Private owners' names have been removed in accordance with the Freedom of Information and Protection of Privacy Act. Furthermore, all reasonable attempts were made to accurately reflect the original Outline Plan. All text changes are noted in the right margin and are italicized where applicable.

This office consolidation is intended for convenience only. In case of uncertainty, the reader is advised to consult the original plan, available at the office of the City Clerk.

City of Edmonton
Sustainable Development

Kaskitayo Outline Plan Office Consolidation

KASKITAYO OUTLINE PLAN THE CITY OF EDMONTON.

by

UNDERWOOD McLELLAN AND ASSOCIATES LIMITED

Edmonton, Alberta

May, 1974

KASKITAYO OUTLINE PLAN

FORWARD

This document is a consolidation of the original outline plan report prepared for the Kaskitayo Area in February 1971 and the addendum to the report prepared in November 1971.

The original Kaskitayo Outline Plan and the Addendum to that report were based on the guidelines set out by the City Planning Department in their report: entitled "Kaskitayo Outline Plan - Development Policy and Guidelines Report". The Kaskitayo Outline Plan, together with the Addendum to that report, received Municipal Planning Commission conditional approval February 15th, 1973 and City Council approval on October 23rd, 1973.

Council approval contained two amendments as follows:

1. The maximum overall density shall be 22 persons per gross acre (*54.34 persons per gross hectare*). Amended by Editor
2. The destination of 111th Street be left in abeyance pending Council's determination of this facility as part of the transportation plan.

This consolidated document represents the final outline plan report. The information contained herein forms the basics for further detailed planning of the Kaskitayo Area.

TABLE OF CONTENTS

(Amended by Editor)

FORWARD

INTRODUCTION AND BACKGROUND	1
-----------------------------	---

I. THE URBAN CONTEXT OF THE KASKITAYO AREA	4
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A. Relationships	4
B. External Access	7

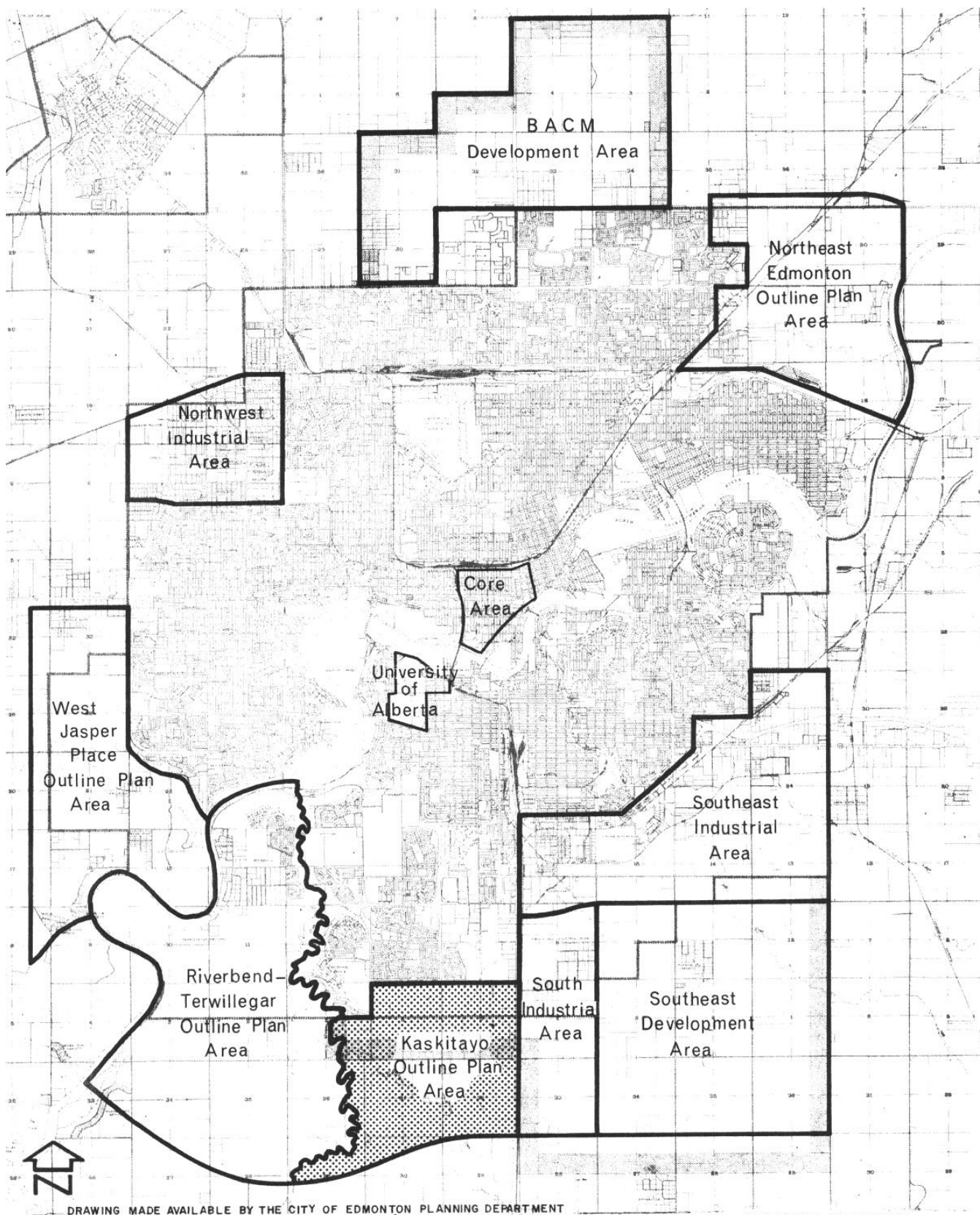
II. EXISTING SITE CONDITIONS WITH RESPECT TO LAND USE	8
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A. Natural Features	8
B. Existing Land Use	11
C. Land Ownership	12
D. Utilities	14
E. Zoning	15

III. OBJECTIVES FOR THE KASKITAYO DISTRICT	16
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A. General Considerations	16
1. The Purpose of the Outline Plan	16
2. Residential Development and Population	16
3. Transportation and Servicing	17
4. Special Study Area South of Blackmud Ravine	17
B. Special Objectives	18
1. Residential	18
2. Schools and Open Space	19
3. Commercial Development	21
4. Vehicular Circulation	21
5. Public Transportation	22
6. Pedestrian Circulation	22

IV. DEVELOPMENT OF THE OUTLINE PLAN	24
A. The General Order of the Plan	24
1. Neighbourhoods	24
2. Communities	24
3. District	24
B. Procedure for Development of the Plan	27
1. Arterial Roads and Community Divisions	27
2. Collector Roads and Neighbourhood Divisions	27
3. Community Facilities	27
4. Urban Village	28
5. High Schools and District Recreational Facilities	35
6. Residential Land Use	37
7. Open Space	39
8. Pedestrian Walkway System	39
9. Incorporation of Existing Development	41
C. Land Use Summary	42
D. Residential Development and Housing Proportions	44
E. Parks and School Sites	47
V. STAGING OF DEVELOPMENT	49
APPENDIXES	
Appendix A - Land Ownership	51
Appendix B - Traffic Engineering Analysis	55
Appendix C - Land Use Statistics	59



DRAWING MADE AVAILABLE BY THE CITY OF EDMONTON PLANNING DEPARTMENT

ANNEXATION BOUNDARIES
EFFECTIVE JANUARY 1, 1971

RELATIONSHIP OF KASKITAYO TO OTHER OUTLINE PLAN AREAS KASKITAYO OUTLINE PLAN

UNDERWOOD McLELLAN AND ASSOCIATES LTD.

Notwithstanding any part or policy of this Plan, an opportunity to develop housing for first time homebuyers exists on a vacant surplus school building envelope on the school/park site located at Saddleback Road, west of 112 Street, and at the southwest corner of 105 Street and 16 Avenue and as specified under the Community Services Zone. The Community Services Zone reflects the underlying, pre-existing zoning and will, in addition, allow for row housing and related accessory uses. The housing opportunity will occur on an area equal to the portion of the surplus school building envelope. The precise location of this housing within the entire School/Park site will be reviewed and determined by the City. The dwelling units and population generated by this development under the Community Zone are not included in the statistical summary.

Resolution
December 12, 2006

The school/park site is amended to include the opportunity for medium density housing for seniors on the surplus school building envelope. The precise location of this housing within the entire School/Park site will be determined by the City. The dwelling units and population generated by this development are not included in the land use and population statistics.

Resolution
October 15, 2012

INTRODUCTION AND BACKGROUND

This document is concerned with the Kaskitayo Planning area and takes the form of an outline plan as follow up to the Kaskitayo Development Policy and Guidelines Report recently prepared by City of Edmonton *Sustainable Development*.

Amended by Editor

The purpose of an outline plan is to show the general pattern of development for a large area of land. The Plan designates those parts intended for various land uses, the provisions to be made for services and utilities, and the basic vehicular and pedestrian circulation patterns. The Kaskitayo Outline Plan has been prepared to assist in the orderly and economic growth of the City of Edmonton and, more specifically, to form the basis from which detailed land development plans may be determined.

The Kaskitayo Outline Plan area is situated in the south west sector of the City. Plate 1 indicates the relationship of Kaskitayo to other outline plan areas and also shows its general location. It is evident that Kaskitayo forms an important link in the completion of an overall comprehensive development pattern for the southern suburban portion of the City. It is one of a series of outline plans which have been completed or which are currently being prepared.

This outline plan has been prepared by the consulting firm of Underwood McLellan and Associates Limited representing a number of land owners and developers in the Kaskitayo area. Numerous meetings between staff of the *Sustainable Development* and other City Departments have been held in order to ensure that the full range of public needs has been considered and that a desirable living environment is created, based upon acceptable standards and criteria.

Amended by Editor

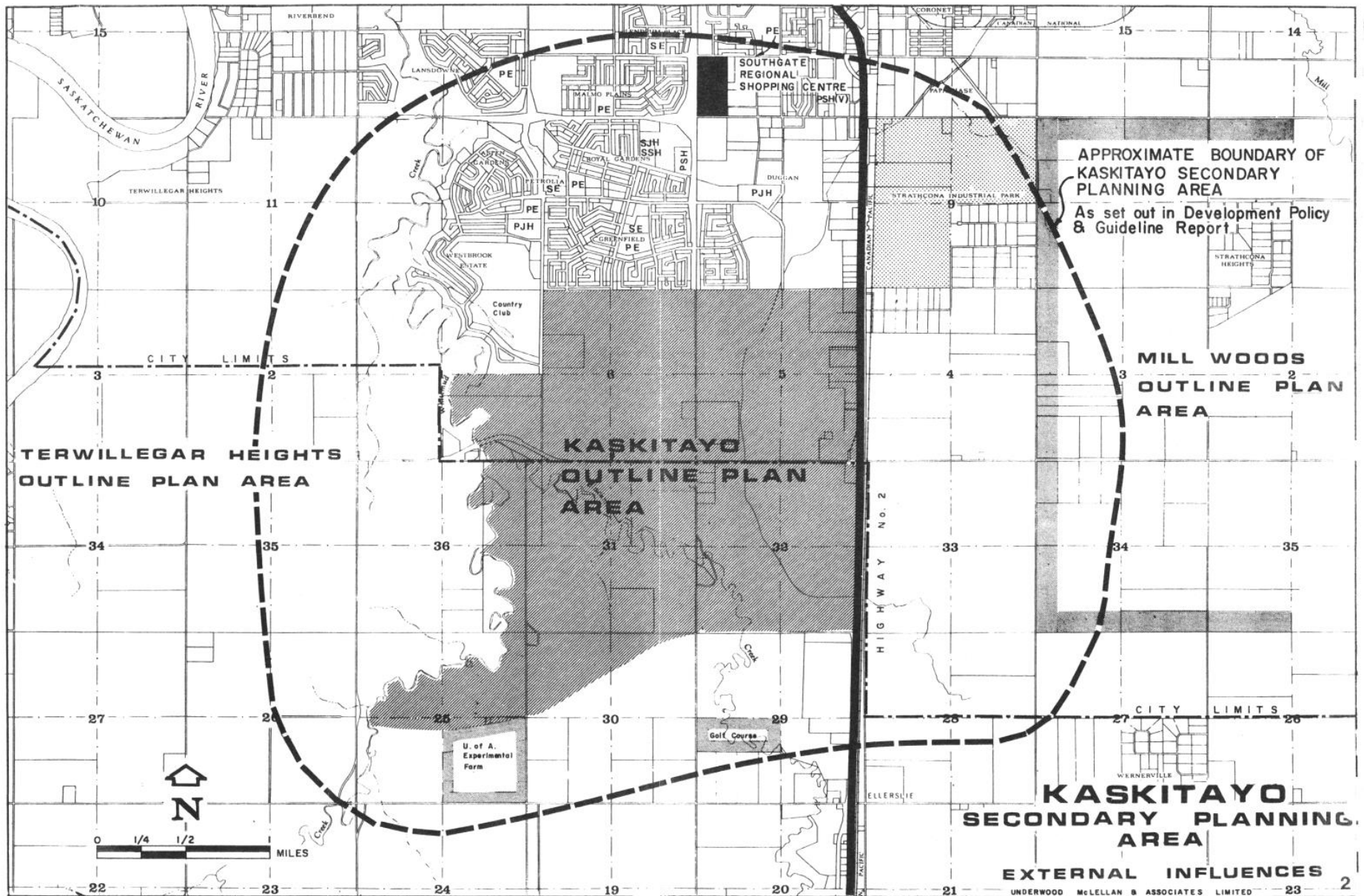
The Kaskitayo Development Policy and Guidelines Report indicates, in considerable detail, the general background to the preparation of the outline plan. It contains two main parts:

1. A survey and analysis of existing physical plant together with a summary of the implications of these features; and
2. A presentation of the basic standards, requirements and policies which should be utilized when the final outline plan document is prepared.

These policies and guidelines have had a direct influence on the form of development proposed in this outline plan. It is, therefore, important that the Planning Department report be reviewed in conjunction with this Kaskitayo Outline Plan Report.

Fundamentally, the Kaskitayo outline plan presents a proposal concerning how expansion should proceed in the future, recognizing objectives and generally accepted principles relating to orderly development. It forms a framework upon which detailed subdivision plans may be based and ensures that major public facilities such as schools, shopping centres and arterial roadways are located in the best possible manner and that the best living environment is created.

The features of the Kaskitayo area, discussed at greater length in a later section of this report, indicate that this area will be suitable for residential and related development. At the present time, there is an established social and economic need for serviced land in the southern area of Edmonton which can provide a broad range of housing choices. Many of the required services and facilities needed to satisfy this need are located in or adjacent to the Kaskitayo area. In view of these and other factors contained herein, the Kaskitayo Outline Plan has been prepared to guide the development of this area in a manner which will respond to this established need.



I. THE URBAN CONTEXT OF THE KASKITAYO AREA

A. Relationships

The Kaskitayo Outline Plan Area, as illustrated on Plate No. 1 lies in the southern portion of the Metropolitan Edmonton Area, to the East of Riverbend-Terwillegar Heights with Whitemud Creek forming a common area.

The Outline Plan Area is bounded by specific developments and/or land uses in all directions. As indicated on Plate No. 2 these are:

1. The present No. 2 Highway (*Calgary Trail*) in conjunction with the *railway* right-of-way forms the logical limit to the development to the East and acts as a division between residential and proposed industrial use. The southeast residential development area (Mill Woods) is located one mile east of the No. 2 Highway (*Calgary Trail*) and immediately opposite the Kaskitayo development area. The southwestern limit of the Strathcona Industrial park is contiguous to the Kaskitayo Outline Plan area on the northeast. Amended by Editor
2. The Greenfield and Duggan residential communities are immediately adjacent to the Kaskitayo area on the north and subdivision plans for these areas overlap into the Kaskitayo Plan Area to the line of 34th Avenue. The Derrick Club Golf Course and the Westbrook Estate residential area are situated immediately adjacent to the northwest corner of the Kaskitayo area. Amended by Editor
3. The Terwillegar Heights area is adjacent to Kaskitayo on the west with the Whitemud Creek Ravine forming a common boundary.
4. The University Experimental Farm is located in the S.E.¼ of Section 25, immediately adjacent to the southwesterly limit of the Kaskitayo Outline Plan area. An existing golf course is situated in the N.W.¼ of Section 29, approximately ½ mile south of the southern limit of the Kaskitayo Plan Area.

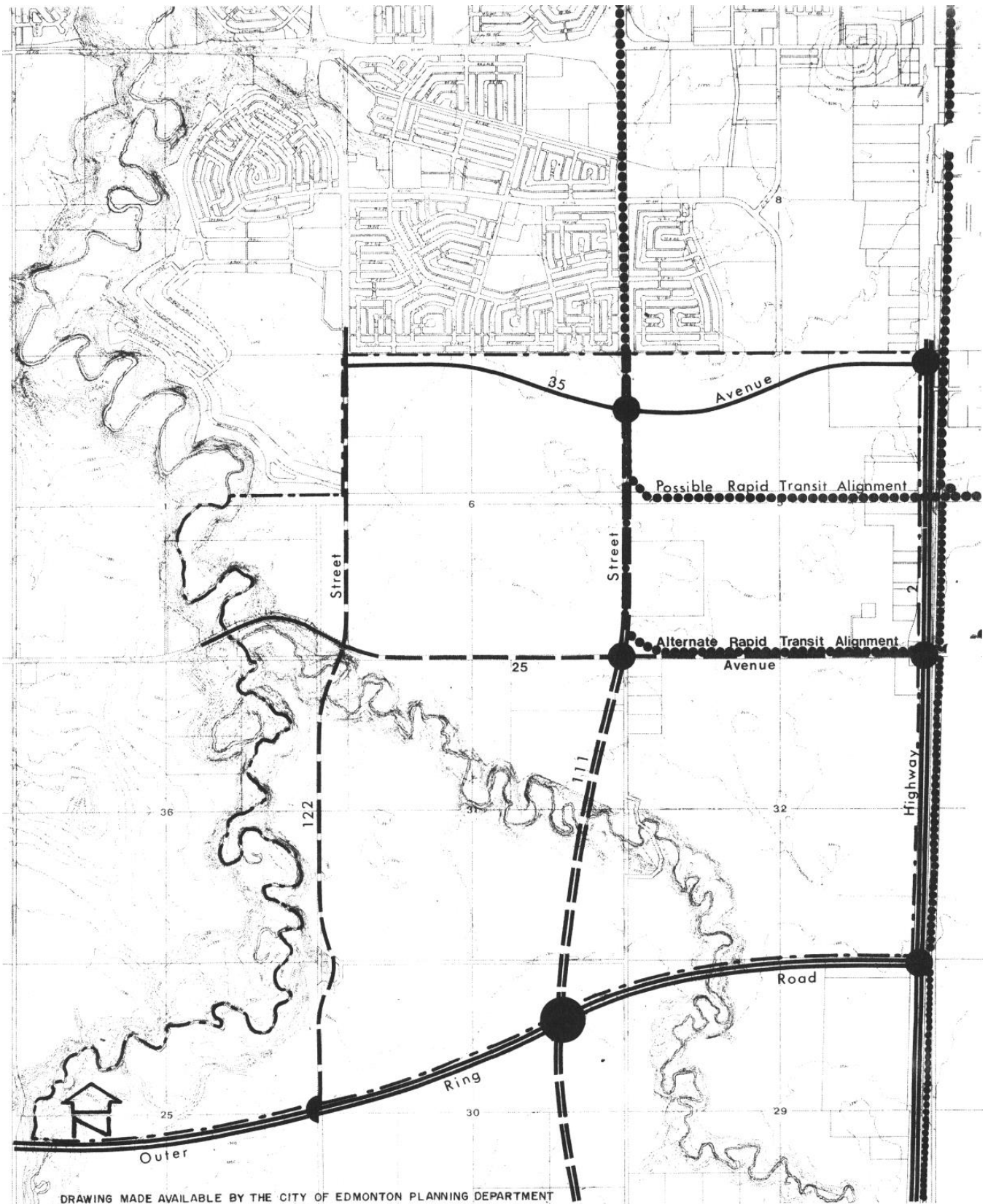
The predominant land use south of the Kaskitayo Plan Area and west of No. 2 Highway is agricultural and is likely to remain so beyond the limits of the projected ring road.

The lands included in the Kaskitayo area are all of Sections 5 and 6, in Township 52,

Range 24, all of Sections 31 and 32 and parts of Sections 29 and 30, in Township 51, Range 24 and part of Section 1 in Township 52, Range 25, all west of the 4th Meridian. The total gross develop-able area is about 2400 acres.

Due to the geographical location of the Kaskitayo area an excellent relationship exists between Kaskitayo and the Edmonton City Centre and the University of Alberta. An approximate physical distance of 5 miles separates these activity centres from Kaskitayo. The area's east-west orientation to existing or proposed major industrial areas of the city will provide an excellent opportunity for a desirable living-working relationship which could have a substantial effect on easing home to work traffic will problems. Convenient access will be provided to both the existing major shopping centres, such as Southgate, as well as to the proposed town centres in newly developing areas in the south. The amenity of the Blackmud and Whitemud Ravines will aid in providing an excellent opportunity to develop an attractive residential area.

The future development of Kaskitayo is primarily intended as residential, fully supported by a full range of related services such as schools, shopping centres and recreation facilities. It is anticipated that a variety of housing types will be provided within the Kaskitayo area, varying from single family dwellings to various forms of townhousing and apartment units. A broad cost range of housing, to satisfy the needs of all income groups, is anticipated. The mixture of housing types should provide an aesthetically and socially interesting variety and should satisfy a broad range of individual requirements.



B. External Access

The Calgary Trail (Highway No. 2), 111th Street and 119th Street connect the Kaskitayo area to downtown Edmonton, the University of Alberta and other commercial and industrial areas on the south side of the Saskatchewan River. Only the Calgary Trail and 111th Street presently provide access to the area south of Kaskitayo.

Plate No. 3 indicates the major transportation net-work as related to the proposed development of the Kaskitayo area.

The main connector to districts immediately east and west of Kaskitayo is 23rd Avenue. The proposed 34th Avenue will provide access to the east only. The proposed Outer Ring Road (*Anthony Henday Drive*) will provide a high speed by-pass connection to industrial areas and other centres in the Greater Edmonton Region.

Amended by Editor

Plans for the provision of rapid transit to south Edmonton are currently under review with several alter-natives being examined. The alignment of the rapid transit system down 111th Street to about 30th Avenue and thence eastward would provide excellent access to down-town for Kaskitayo residents. The alignment along the *railway* right-of-way south to 30th Avenue, or possibly continuing south to the International Airport, would not provide the same level of service to the Kaskitayo area.

Amended by Editor

Additional studies have indicated that the extension of the 111th Street alignment south to 23rd Avenue and thence easterly to Mill Woods (S.E.D.A.) would provide the best level of service for the outline plan area. This consideration is discussed at greater length in a later section of this report.

II. EXISTING SITE CONDITIONS WITH RESPECT TO LAND USE

This section summarizes the major existing features within the area, which have been described in greater detail in the Development Policy and Guidelines Report

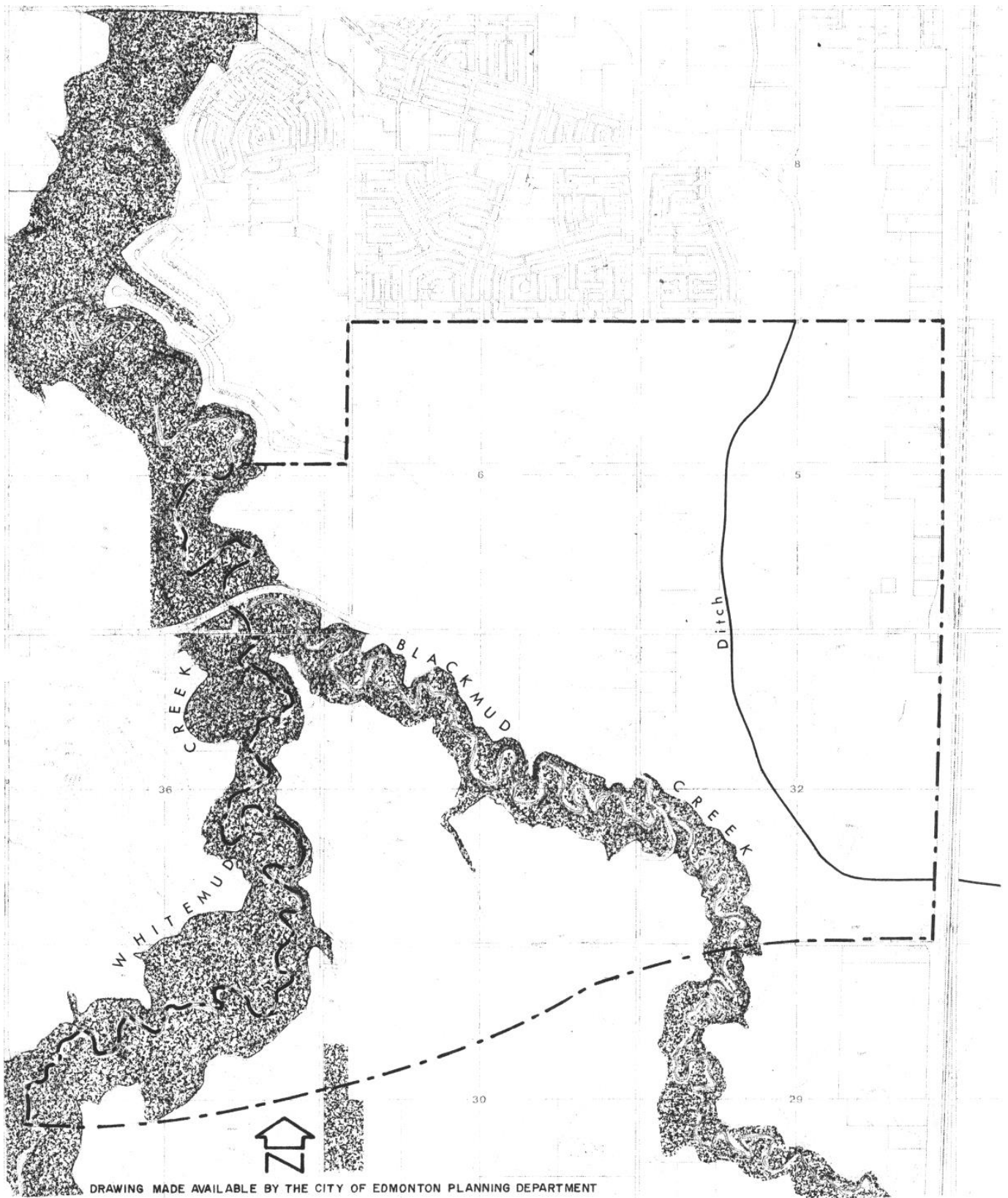
A. Natural Features

The Blackmud Creek which generally traverses the southwesterly portion of the site and the Whitemud Creek which forms its western boundary are the most significant natural features of the area. These two ravines, which are shown on Plate No. 4, are substantial topographic features, being entrenched from 60 to over 100 feet below the top of bank. The side slopes range from 20 to 50 percent with cliff conditions occurring, particularly near their point of confluence. Both ravines contain heavy stands of forest vegetation.

The remainder of the Kaskitayo area is relatively flat. Drainage is generally through the Whitemud and Blackmud Creek systems except for the easterly half of the area. For this portion the drainage is provided by a ditch running in a north-south direction, along a registered right-of-way, into the Duggan area. There are no areas of marsh or bog which would present development difficulties. The highest point in the area is located just to the east of 111th Street about a quarter mile to the south of 23rd Avenue.

The area outside of the ravines has been cultivated farm land for many years. Small stands of trees occur as shelter belts around farmsteads and in a few locations along the drainage ditch.

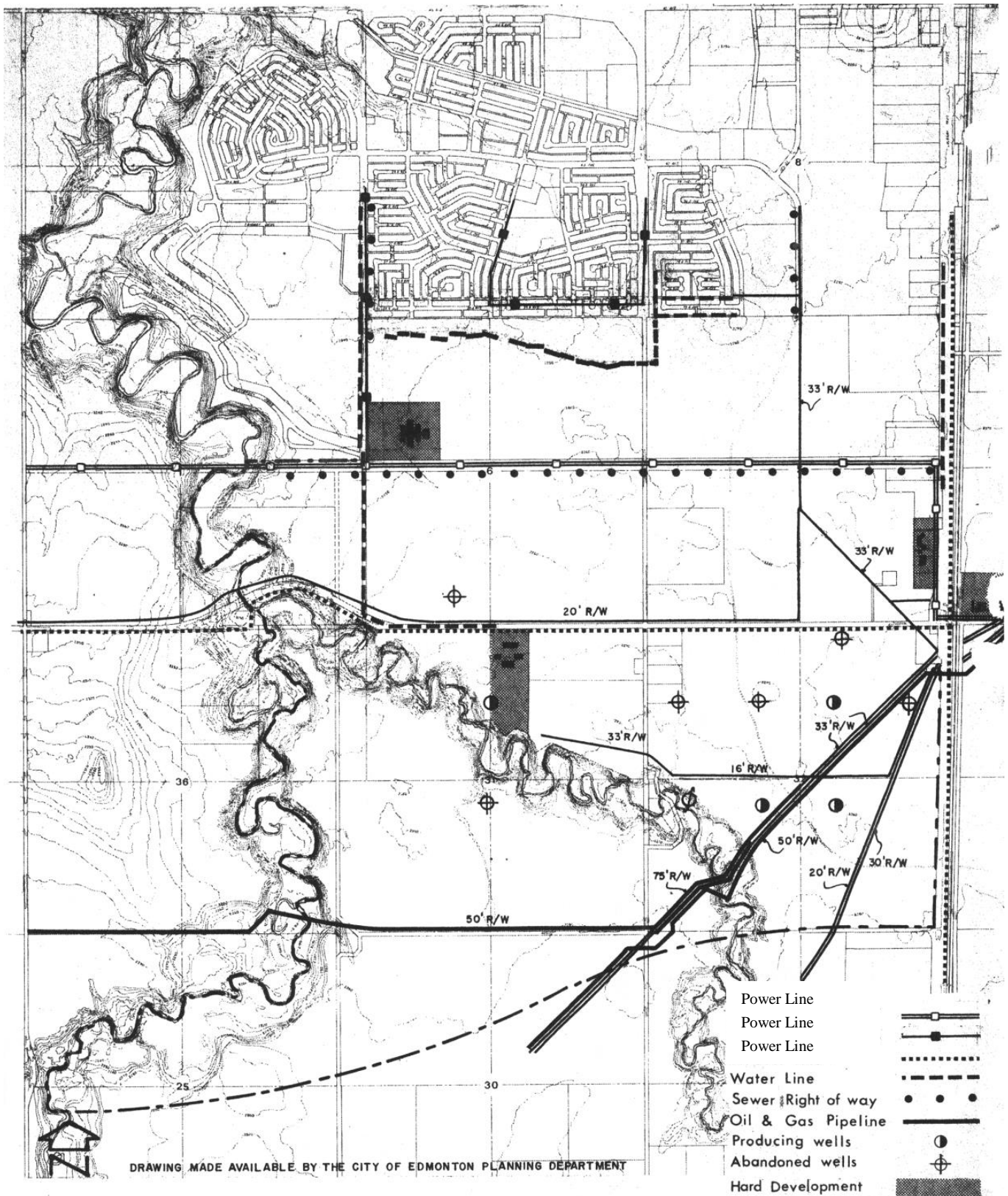
The land within the Kaskitayo area generally affords sufficient opportunity to create an attractive living, working and recreational environment, particularly when the natural features of the site are combined with careful physical design. The presence of the Whitemud and Blackmud ravines provides exceptional opportunity to achieve this end.



RAVINE SYSTEM

KASKITAYO OUTLINE PLAN

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*Amended by Editor

FACTORS AFFECTING DEVELOPMENT KASKITAYO OUTLINE PLAN

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5

B. Existing Land Use

The predominant existing land use, both within and to the south of the outline plan area is agricultural. There are 18 existing farmsteads, of which 10 are presently occupied. Four of the latter are situated north of 23rd Avenue. Four new non-farm residences exist south of 23rd Avenue. They are all located within the Black-mud Ravine.

The Sisters of Charity Providence Centre is situated immediately east of 119th Street midway between 23rd and 34th Avenues. The College of the North American Baptists is located between Blackmud Ravine and 23rd Avenue, about ½ mile to the west of 111th Street. The facilities of both institutions are new. Reference to Plate No 5 indicates these locations along with other factors affecting development of the area.

A commercial complex, consisting of a motel, restaurant and service station is located adjacent to the Calgary Trail, immediately north of the intersection with 23rd Avenue. Another motel, combined with a trailer park, is located to the south of 23rd Avenue at this same inter-section. There is also a radio transmitter tower about ¼ mile north-west of the intersection. It is expected that this tower will be relocated when development of the area around it becomes imminent.

There are numerous gas and other utility pipelines passing throughout the area. Their influences will be discussed in later portions of the report. *Power* transmission lines pass through the area in a right-of-way along the centres of Sections 5, 6 and 1. It is expected that these lines will be relocated in the vicinity of the Outer Ring Road (*Anthony Henday Drive*) at the time development in this area proceeds.

Amended by Editor

C. Kaskitayo Land Ownerships & Fragmented Subdivision

In terms of land ownership, a distinction must be made as to lands currently situated within and outside of the City limits.

1. Lands Within the City (23rd Avenue and North) *

At this time, approximately two thirds of land within the scheme area is, in fact, assembled or in process of being assembled for development purposes. This comprises the W½ of Section 5 and the whole of Section 6 and most of the SE ¼ of Section 1. The existing right-of-way for *the power transmission lines* through these sections will undergo a future change in land use and be made available for development purposes.

Amended by Editor

A fragmented subdivision pattern exists within the E ½ of Section 5, primarily related to commercial developments along Highway No. 2. (*Calgary Trail*) Some of these parcels have been purchased by the city for roadway purposes. Other groups of blocks are held under single ownership as will be shown on the land ownership list following. A partial replot may be necessary in the area in order to reconcile the highway commercial frontage and the relocation of *a communication tower*.

Amended by Editor

Amended by Editor

2. Area Outside of City Limits (South of 23rd Avenue)*

Lands within this area remain predominantly in private ownership with large acreages being assembled. A fragmented subdivision pattern of small holdings exists within the NW¼ of Section 32, indicated in the plan as future school sites and District Park. However, only one lot is not retained by the owner of the remaining portion of the quarter section.

An existing small holding subdivision within the SW ¼ of Section 32 exists for the most part within the Blackmud Creek Ravine and could remain without serious detriment to the overall scheme.

In general, the following principles can be expected to be followed and provide for the orderly development of the Kaskitayo lands.

- (a) The existing institutional uses will remain with expansion within their property or alternatively residential development of portions of their land.
- (b) Small parcel owners will receive offers to purchase from the larger land holders

* An annexation, effective January 1st, 1974 changed the City of Edmonton Boundary to bring those portions of Sections 31 and 32 generally lying to the north and east of the Blackmud Creek within the City limits.

and some may be brought into immediate development by outright purchase or replotting means.

- (c) Alternatively, the small parcels could be incorporated into surrounding plans in such a manner that development need not proceed until some future date. It appears certain that increasing taxes, as well as increasing land values, will induce holders of smaller parcels to take an active part in developing their land.

Due to the small number of individually owned smaller parcels, it is not expected that the limited amount of subdivided land will create difficulties in the development of planned neighbourhoods.

It has also been assumed that the City will take a willing and active part in bringing its own lands into development in cooperation with the other owners of the area. Whether the lands are held under Certificate of Title or statute it would be possible to enter into replotting scheme to provide suitable development areas.

The ownership of each parcel of land within the Kaskitayo Outline Plan is indicated on the Appendix A and referenced schematically to the map showing the parcel outline. The Certificate of Title and area held is also provided for ready legal reference. Roadways and other public land have not been noted on the list but have been shown on the plan.

D. Utilities

The Kaskitayo area is relatively well situated with respect to the installation of services needed for future development. Plate No. 5 indicates their general location.

The major portion of the area will be drained to the west by a new east-west storm sewer located immediately south of the existing *power transmission* right-of-way. This sewer, which forms a deep tunnel, is currently under construction through a shaft located just to the east of 111th Street. The Whitemud and Blackmud Creeks will provide continued storm drainage of the lands immediately adjacent to them.

Amended by Editor

A sanitary sewer trunk to the north of Kaskitayo along 106th Street has sufficient capacity to service the development area. An additional trunk along 119th Street, near 41st Avenue, could possibly provide additional services for the western portion of the area.

A water feedmain is presently at the southern edge of Duggan near 106th Street. During 1971 it is expected that the main will be extended south to 34th Avenue then west along the right-of-way to 119th Street, then south. Sufficient water capacity will be readily available to serve the area.

Electrical power and telephone distribution lines will have to be brought in from outside areas to provide service to the first stages of development. These extensions can be conveniently made by extending existing facilities in the vicinity.

Natural gas lines currently pass through Kaskitayo to service built up portions of the City. Additional local trunk mains and district regulating stations can readily be installed to expand the capabilities of the distribution system.

E. Zoning

Under the zoning categories of the present Preliminary Regional Plan - Metropolitan Part, the Kaskitayo area is zoned for low density agricultural uses. The Edmonton Regional Planning Commission is currently reviewing and amending the plan and it is expected that the following zoning changes will be made in the area:

1. The north halves of Sections 5 and 6 will be General Urban use.
2. The south halves of Sections 5, 6 and 1 will be General Urban Reserve use.
3. The reminder will stay as low density agricultural use until future amendments are justified.

III. OBJECTIVES FOR THE KASKITAYO DISTRICT

A. General Considerations

1. The Purpose of an Outline Plan

The underlying purpose of an outline plan is to assure that the highest qualities of efficiency, economy and resident concerns are incorporated in the design considerations for a development area. The identification of the planning and development potential of an area and the establishment of a general framework on which to base more detailed and immediate development plans are the specific tools used to achieve this goal. An outline plan, therefore, is unspecific beyond the considerations that affect the whole area. Particular locations for public facilities and services are schematic, and are not necessarily described in their final physical form, but in their general relationships with one another.

The proposals in the outline plan are necessarily long-range. They must establish an order which can remain applicable in the face of the effects of detailed changes in development and servicing methods, public policy, living patterns and market demand.

2. Residential Development and Population

In agreement with the general land use pattern, as set out in the City of Edmonton General Plan, the Kaskitayo area will be planned for predominantly residential use.¹ The location and site characteristics of the Kaskitayo area can incorporate a broad range of residential activities.

The plan is based upon the recommendation that the potential overall population density for the area be 22 persons per gross acre (*54.34 persons per gross hectare*). Thus, a population of about 52,800 people could be ultimately expected on the 2,400 developable acres (*971.2 developable hectares*) in Kaskitayo. A population of about 35,000 can be projected for the portion lying to the north of Blackmud Ravine.

Amended by Editor

Amended by Editor

¹ City of Edmonton Planning Department, General Plan (Edmonton: City of Edmonton, 1967), pp. 146 to 150. See also City of Edmonton Planning Department, General Plan Appendix No. 1 (Edmonton: City of Edmonton, 1970).

3. Transportation and Servicing

Existing and potential transportation facilities offer efficient access to Kaskitayo. Services are available to allow development to begin in the most northerly portions of the area adjacent to the existing communities of Greenfield and Duggan. The final position of Kaskitayo likely to be developed is that area separated by, and south of, Blackmud Ravine.

4. Special Study Area South of Blackmud Ravine

Within the period of time before development of the area south of Blackmud Ravine becomes imminent the considerations for its use may change. With respect to its relationship to the ravines and to Outer Ring Road (*Anthony Henday Drive*), uses for this area other than residential could be considered.

Amended by Editor

For these reasons, specific recommendations for this area will not be made within the context of the present outline plan. General density projections for ultimate residential use of the lands are necessary, however, in such particular cases as planning for school and transportation facilities which influence the entire area.

B. Specific Objectives

1. Residential

The particular amenities of the Kaskitayo site and its location with respect to places of employment and to other residential communities enables the area to attract and to satisfy a wide range of housing needs by providing various housing types.

Certain areas bordering the ravines will provide appropriate sites for high-quality, single-family residences. Similarly, high density developments, in the form of various apartment types, can be accommodated in other suitable locations near the ravines. Higher density developments in these areas would enable a greater number of persons to enjoy the amenities of these natural features.

It is expected that about 80 percent of the housing demand will be for owner-occupied accommodation. A variety of housing types can be provided to fill this demand. In addition to the apparent continuing preference for single-family detached and duplex houses (which now account for 75 percent of all existing units in Edmonton) the condominium form of ownership of attached multiple-family units is becoming an economic and increasingly desirable form of housing.

Attached houses and other forms of apartments, including "walk-up" and "high-rise" are estimated to make up about 60 percent of the units to be ultimately provided in the long range development of Kaskitayo. The higher density housing will be located in varying locations such as areas of significant amenity, at access points to the higher-level transportation network and at high activity areas. The family oriented types of housing, specifically attached houses with direct access to the ground, should be located around the elementary schools. Statistics recorded by the City of Edmonton *Sustainable Development* show that multiple-family attached housing attracts the highest proportion of families with school-age children.

Amended by Editor

It is difficult, if not impossible, to determine public housing requirements as related to the Kaskitayo area at this time. However, the principle of providing and integrating public housing into new development areas is accepted and supported. There should be no difficulty in providing public housing within Kaskitayo, once the extent and nature of the demand is established and within the policy as set out by the City. The same locational site and design criteria would apply to public housing as to other forms of housing whether it be single or multiple family accommodation.

The mixture of housing types, where appropriate can provide an aesthetically and socially interesting variety as a desirable alternative to large areas of uniform development.

The aging population in the surrounding neighbourhood is expected to create a demand for senior's housing. The proposed urban village development will allow them to remain in the part of the City they are familiar with.

January 26, 2005

2. Schools and Open Space

(a) Joint Use

The policy of the joint use of school and other social and recreational facilities is becoming well established in Edmonton.² The potential for joint use varies with the type of school facility. Each level of school; elementary, junior high or senior high, public or separate, is the centre of a corresponding varying catchment area and population group.

Wherever possible school sites should be contiguous or merged to allow efficiencies in site use as well as to provide advantage in the phasing, expansion and sharing of facilities.

(b) Public Elementary Schools and Neighbourhood Activity Centres

The catchment area of public elementary school is the smallest discrete neighbourhood unit. The size of the elementary school itself may vary from 480 to 720 students in 16 to 24 classrooms with an average of 30 students per classroom. Using a figure of 0.5 public elementary school children per family it may be seen that an average public elementary school is centered in a neighbourhood of about 1200 households. With respect to the varying densities of family accommodations, the neighbourhood could vary between 100 gross acres (40.5 hectares) of attached multiple-family housing (in a hypothetical case) to some 300 gross acres (121.4 hectares) of detached single-family housing.

Amended by Editor

Amended by Editor

The combination of a 9 acre (3.6 hectares) public elementary school site with 7.5 acres (3.0 hectares) of parkland can provide an effective open space core for the neighbourhood. The addition of community league facilities at this location, for social and recreational programs, will result in the opportunity to develop a strong neighbourhood activity centre.

Amended by Editor

Amended by Editor

Public elementary schools should be serviced from arterial and collector roadways. They should also be within one half of a mile walking distance, or as close to this distance as is practical, from any part of the neighbourhood they serve.

² Parks and Recreation Department Master Plan, Preliminary Draft (Edmonton: City of Edmonton, 1970), pp. 18-23.

This access consideration, along with the apparent numerical similarity between the population groups presently served by both public elementary schools and existing community leagues reinforces the concept of the neighbourhood and its activity centre as an acceptable and socially important identifiable unit.

(c) Public Junior High & Separate Elementary Schools

The public junior high school serves a community with an area and population within the range of that contained by two or three neighbourhoods, depending on the density of each. Because the separate elementary schools have a catchment area similar to those of the public junior high schools, their sites can be economically and conveniently combined.

(d) Senior High School and the Urban Village

January 26, 2005

The senior high school has the highest level and widest range of recreational and educational facilities. In addition to fulfilling its normal educational requirements, the senior high schools could serve, in this case, the entire Kaskitayo area with adult educational, entertainment and social programs, as well as specialized athletic activities. The senior high school site will be combined with a district athletic centre and park which will in turn be related to the *mixed-use urban village* and related institutional uses in Kaskitayo.

January 26, 2005

(e) The Ravines

The ravines are a prime natural amenity of the Kaskitayo area. Development along the ravines must be restricted to land above the top of the bank. The top of the bank, as defined by the City of Edmonton *Sustainable Development*, may be regarded as the edge of the right-of-way of escarpment roads, a legal property boundary or a topographic contour line definition. Wherever possible, public roadways will be located at the top of the bank in order to clearly define the edge of development and to assure public access to the ravine land. In consideration of the steepness of portions of the ravine banks, provision of space may be required for only walkways along the top of the bank.

Amended by Editor

3. Commercial Development

Commercial facilities in Kaskitayo will primarily serve only the residents of the area. The Southgate shopping centre, which is regional in scale, is located about one mile north of Kaskitayo

A mixed-use urban village will be located near the geographic centre of Kaskitayo at the junction of major circulation routes serving the area. The predominant use for the developed is residential, with some retail/commercial and office uses. The urban village has a higher intensity residential use than a town centre and lower intensity commercial uses, including professional and general offices, medical services, general retail stores and restaurants.

January 26, 2005

Convenience shopping facilities will be located near public junior high school locations, at the community level. The grouping of these facilities will result in a further intensification of use and will, at the same time, serve as a focus of activity for the community.

4. Vehicular Circulation

Arterial roads will define the development area and divide it into community units. The major institutional, *urban village* and recreational facilities will be located along these routes thereby providing convenient access from each community.

January 26, 2005

Collector roadways will connect the residential communities with the arterial roadway system. These roads will conform with existing standards and, wherever possible, long continuous collector streets will be avoided to discourage excessive trip lengths and traffic congestion. Direct funneling of traffic from collector streets to major and arterial through-fares will be encouraged. The collector roads will carry bus routes and sidewalks, separated by a boulevard, as components of the right-of-way. Generally, neighbourhood and community facilities such as schools, recreation facilities and commercial outlets will be located on collector streets in order to provide convenient resident access and to reduce the amount of residential frontage on these streets. The collector roads will form the division between neighbourhood units.

Local streets or sub-collector roads will connect with the collector roads and will have direct frontage in conformity with existing standards.

5. Public Transportation

The major bus routes will follow the main collector and subcollector roadways and provide connections between the *urban village*, the senior high schools, the junior high schools, community centres and the locations of high density housing. The major bus route should be designed to provide service within about one quarter of a mile of any part of the Kaskitayo area.

January 26, 2005

The public transportation system should provide as intensive a service as economics can allow so as to increase its convenience and desirability for use by the residents and therefore reduce the dependence on the private automobile.

The possibility of rapid transit serving the Kaskitayo area has obvious access advantages for the residents. Planning for the inclusion of the rapid transit component must recognize that it is, at this time, both uncertain and long range. Flexible provision can be made, however, for the implications that rapid transit would have on land use elements within the Kaskitayo area.

The rapid transit line will have a locational relationship with the *urban village*. A station and a "park-and-ride" facility will be part of the urban village. Higher density housing will be located in close conjunction with the *urban village*-transit station complex. The bus system will connect with the transit line and form an important role in the effective use of this facility.

January 26, 2005

January 26, 2005

The Heritage Transit Centre is located adjacent to 111 Street on the west side of Heritage Mall, north of 23 Avenue. Heritage Transit Centre acts as a transfer location between local transit services from southern residential and employment sectors and broader City services to Southgate, the University of Alberta and Downtown. Currently, it is a destination point for 14 routes. The urban village developments' land uses, density, and site layout have been designed to maintain a pedestrian friendly environment and promote higher intensity transit-oriented development (TOD) at this existing transit hub. The combination of well landscaped pedestrian linkages and potential interior connections will aid the TOD aspects of the urban village development.

January 26, 2005

6. Pedestrian Circulation

The walkway system should be suited to the various pedestrian requirements. Trips from homes to shopping facilities and to the schools involve the longest daily walk for most pedestrians. The pedestrian "desire lines" may be visualized as short direct routes emanating in all directions from each of these points. For convenience, in general, higher

densities of population should be located near the facilities they will use the most. In turn walk-ways, as part of and leading through, both the school and higher density housing sites, are an important factor in the location and physical arrangement of housing sites and open space. Pedestrians are afforded the greatest psychological and practical security when their pathways are coincident with higher activity areas.

In a similar sense, the heightened activity along the bus route and the opportunity of using the bus suggests the provision of pedestrian walk-ways along the collector and sub-collector roadways.

Pedestrian movements within the areas of single-family detached housing are best accommodated on sidewalks or walkways which connect with each other. Special walkways will be provided for access to, and along, the ravines.

Separated pedestrian crossings must be provided at the intersections of main pedestrian routes and major roadways. Controlled pedestrian crossings are necessary where walkways cross collector road-ways.

IV. DEVELOPMENT OF THE OUTLINE PLAN

A. The General Order of the Plan

The following section deals with the specific development of a plan which applies the preceding objectives to the particular conditions of the Kaskitayo area.

1. Neighbourhoods

The Kaskitayo area is apportioned in function-ally varying units. The neighbourhoods, which are the catchment areas of the public elementary schools, are centred on combined sites which contain the public elementary school and neighbourhood recreation facilities.

2. Communities

Junior high schools, separate elementary schools and local shopping facilities serve communities made up of two to three neighbourhoods.

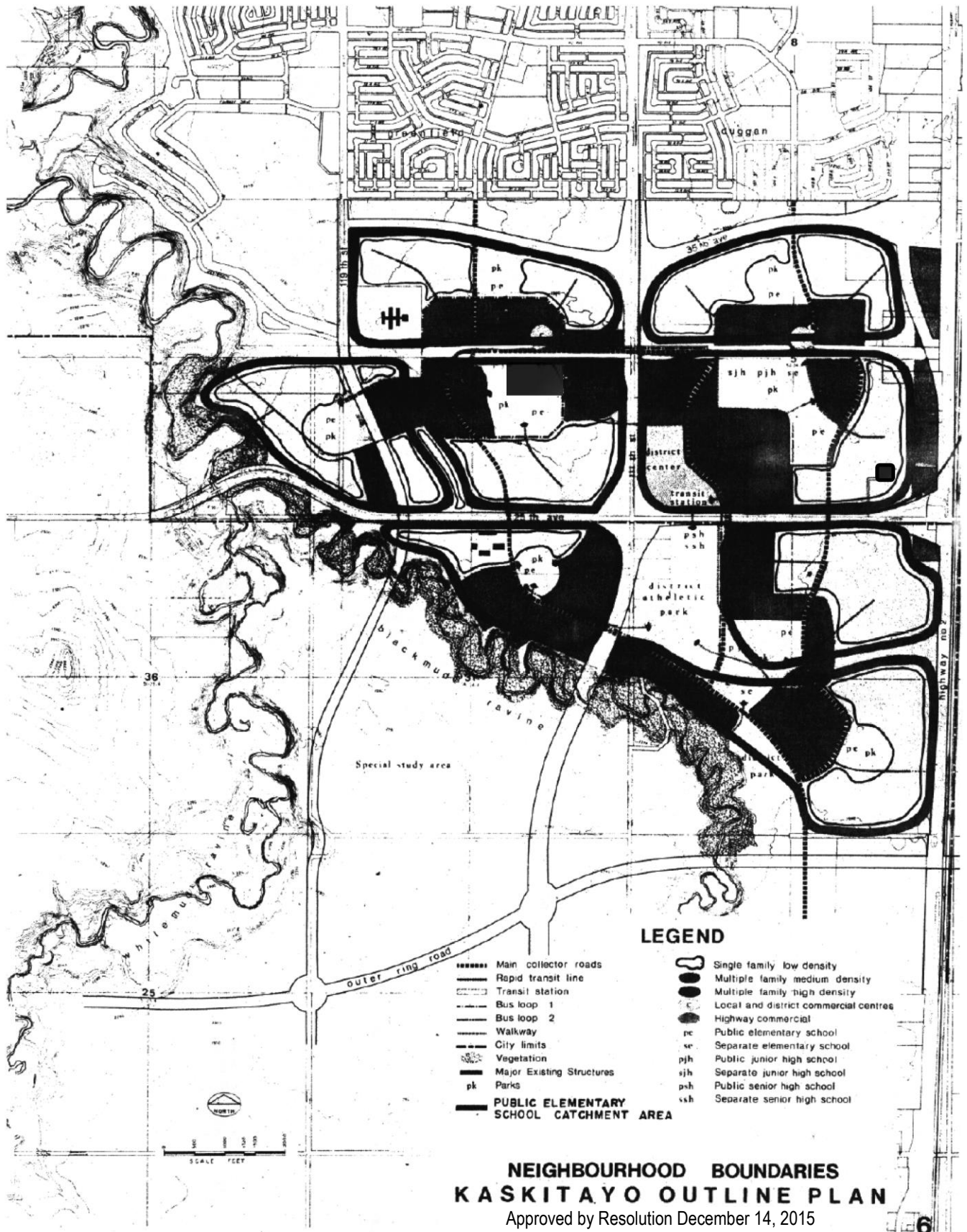
3. District

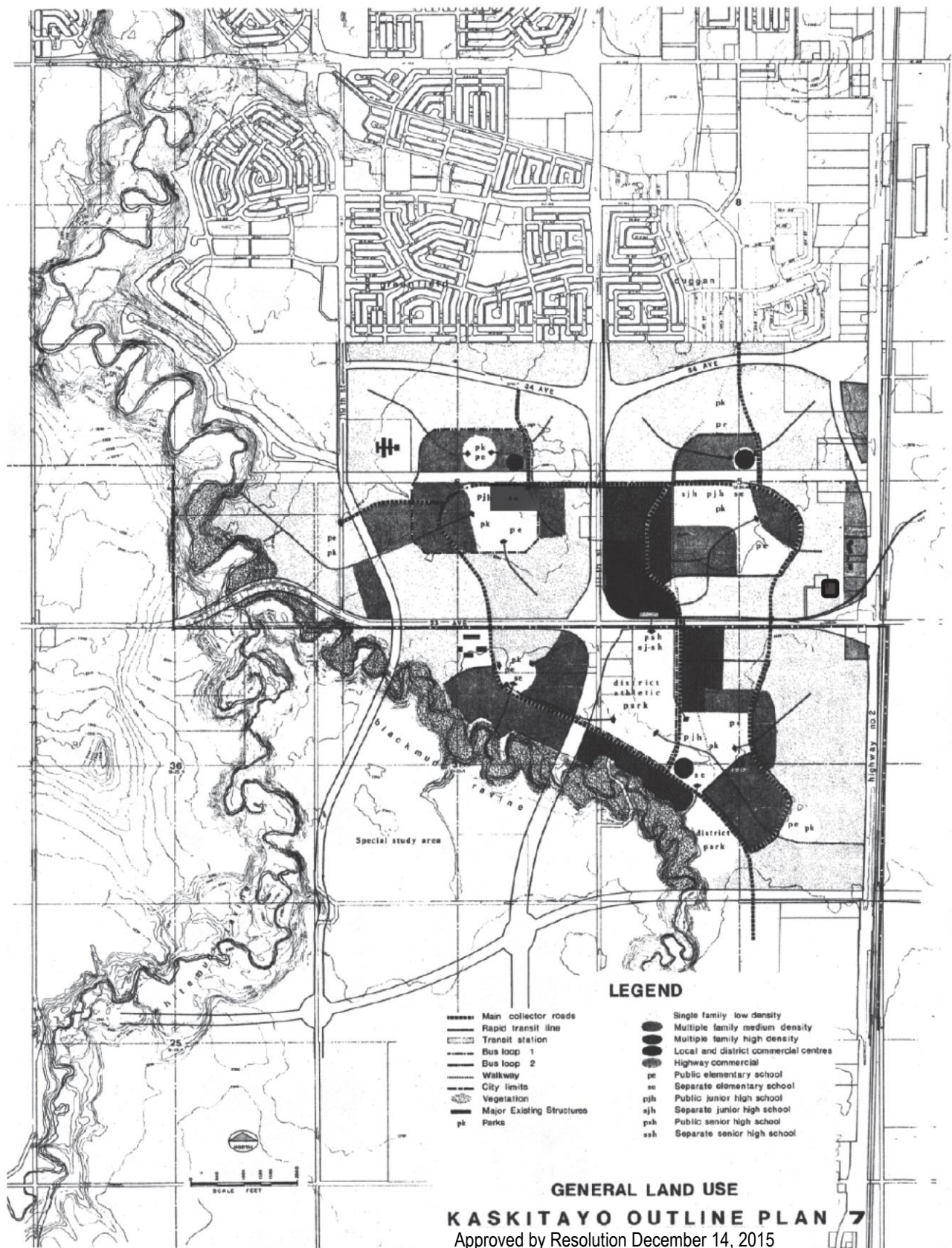
Educational, recreational, commercial and social functions which serve the whole Kaskitayo area are accommodated at the centrally located *mixed-use urban village*.

January 26, 2005

The various levels of the vehicular and pedestrian circulation networks relate to the corresponding functional divisions of the residential area listed above.

The general order of the plan is shown on Plate No. 6.





B. Procedure for Development of the Plan

Within the general order established above, the following components are sequentially assembled in the plan. Plate 7 shows the general land use for the area as well as other major development components.

1. Arterial Roads and Community Divisions

The major roadways define the outline area and divide it into three communities, one to the east and one to the west of 111th Street between 34th and 23rd Avenues, and one between 23rd Avenue and the Blackmud Ravine. The three communities are in turn divided into neighbourhood areas, each of which is the catchment area for a public elementary school. In terms of phasing, the neighbourhood areas would be the smallest complete unit. At the centroid of each will be the elementary school, on a site of 9 acres (3.6 hectares) combined with a park of 7.5 acres (3.0 hectares). The area lying north of 34th Avenue can be served by elementary schools in the Greenfield and Duggan communities. Plate 6 shows the schematic location of these areas.

Amended by Editor

2. Collector Roads and Neighbourhood Divisions

The collector roads form the boundaries between the neighbourhoods. They provide connections to the neighbourhoods from the arterial roadway network and from the Greenfield and Duggan communities to the north. The alignments of the collectors are adjusted to discourage through-traffic movements. The collector roads form an internal loop which, with the sub-collector roadways, will carry both the bus system and a walkway separated by a boulevard as components of its right-of-way.

3. Community Facilities

Terminal points on the collector road-bus loop are locations for community centre facilities, which will typically include a combined public junior high school and separate elementary school site of 21 acres (8.5 hectares), church sites and a local shopping centre of about 3 acres (1.2 hectares). Where possible, the combined school sites will be contiguous with an adjacent public elementary school-neighbourhood park site. In the north-east community centre the combined school site includes a separate junior high school site which will serve Greenfield and Duggan to the north as well as Kaskitayo.

Amended by Editor

Amended by Editor

The community shopping centres, or local commercial services will comprise a total of approximately 9 acres (3.6 hectares), each of the 3 sites being approximately 3 acres (1.2 hectares) in size. The development of these facilities will be based on the following criteria:

Amended by Editor
Amended by Editor

Local shopping centres provide for the sale of convenience goods and personal services for the day-to-day living needs of the immediate neighbourhood and community.

1. The leading tenant will be a supermarket.
2. The building square footage will range from 10,000 square feet to 40,000 square feet.
3. The average gross leaseable floor area will be approximately 28,000 square feet.
4. The average population support would be approximately 3,500 families. A minimum
5. Population support would be approximately 2,000 families.
6. The approximate radius of customer service is about ½ mile.

The community shopping centres could include such convenience facilities as a grocery store, drug store, barber and beauty shop, shoe store, dry cleaner outlet, cafe, bank and so on. The approximate location of these centres is shown on Plate 7, General Land Use.

4. Urban Village

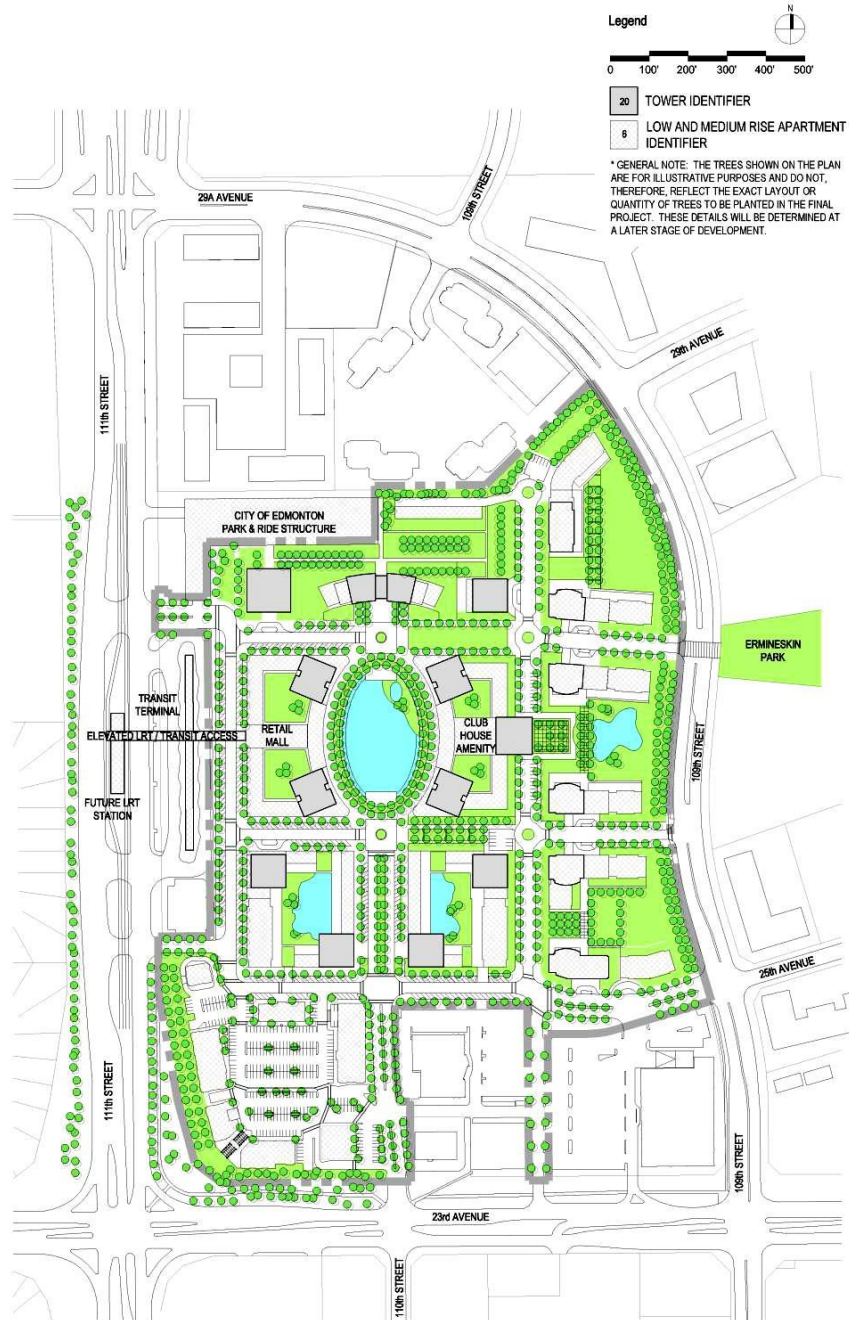
Amended by Editor

Due to external competition, the Heritage Mall District Centre closed in 2000 and is currently a vacant greyfield site. The redevelopment plan for the site is a mixed-use urban village that will be predominantly residential with some retail/commercial and office uses. The site encompasses approximately 17.4 hectares (43 acres) of land, bounded by 23rd Avenue to the south, 111th Street to the west, 109th Street to the east and the southern property lines of the Heritage Park Towers and City-owned land.

January 26, 2005

The urban village proposed is in keeping with policy directions contained in the Municipal Development Plan, the original Kaskitayo Outline Plan, and the City of Edmonton's "Smart Choices" initiative, which was approved by City Council on March 23, 2004. "Smart Choices" promotes compact development patterns as an alternative to urban sprawl.

Illustrative Site Plan



The proposed redevelopment of the site for the transit-oriented urban village is an excellent use of this greyfield site, which is currently well serviced but bus transit and, in the future, LRT. The proposed redevelopment strategy is in keeping with the idea of Transit-Oriented Development (TOD) that the City of Edmonton is advocating through its Smart Choices initiative.

January 26, 2005

The development concept for the redevelopment addresses the following planning objectives:

January 26, 2005

- *Create a mix of residential and commercial uses in an attractive pedestrian environment.*
- *Provide open spaces and recreational opportunities for the enjoyment of residents of the development and the surrounding neighbourhoods.*
- *Provide safe and attractive pedestrian linkages throughout the site, as well as connectivity with adjacent neighbourhoods, existing transit and future LRT station by using traffic calming measures and pedestrian mews.*
- *Create an attractive pedestrian and living environment that reduces pedestrian / vehicle conflicts by housing the majority of parking in underground and concealed above-ground parking structures.*
- *Encourage transit use, walking, bicycling and other alternate modes of transportation to the private automobile.*
- *Provide a safe, pleasant walking environment by avoiding blank walls and designing buildings to address the street with balconies, entries, porches and architectural features.*
- *Create a safe environment through Crime Prevention through Environmental Design by ensuring “eyes on the streets.”*
- *Allow for a transition in height and massing from existing nearby neighbourhoods by distributing the density on the development site.*
- *Provide parks and open space, preserve view corridors and reduce the impact of shadowing through the use of taller, slimmer high rise building forms.*
- *Promote high quality development through a combination of the architectural treatment, design details, materials and landscaping of pedestrian areas and open spaces.*
- *Create a series of parks and open spaces for the enjoyment of local residents and nearby neighbourhoods by using high rise building forms which allow for more ground level open space.*
- *Employ sustainable development principles in the planning, design, construction, and management of the development.*

Transit Service

As previously noted (Part 1.B.), three alternative locations for a future rapid transit line in Kaskitayo may be considered:

- (a) A rapid transit line from Mill Woods and for the International Airport would use the existing railway tracks along the east side of Highway No. 2 (*Calgary Trail*).
- (b) A rapid transit line from Mill Woods would follow the approximate alignment of 30th Avenue to turn north along 111th Street.
- (c) A rapid transit line from Mill Woods would run through Kaskitayo along 23rd Avenue and turn north along 111th Street.

Amended by Editor

The latter two alternatives would allow the convenient integration of a rapid transit station and park-and-ride facility within the proposed location of the Kaskitayo *urban village*. Alternative (c) is preferred since the phasing of general land development in Kaskitayo will be from north to south and the timing of the development of land uses related to the rapid transit line along 23rd Avenue could be phased with the development of the rapid transit line itself.

January 26, 2005

The 23rd Avenue location for rapid transit is central to the Kaskitayo area. The *urban village*, high density residential and the high school campus are well served by the transit facilities. Location of the transit station near 23rd Avenue will allow easy access to the station for commuters west of Kaskitayo since 23rd Avenue is the proposed continuous arterial route into Riverbend-Terwillegar. It is proposed that approximately ten acres of parking be associated with the rapid transit station. The integration of this parking in conjunction with district centre uses should be investigated in the design phase.

January 26, 2005

Rapid transit lines in Kaskitayo are located in or adjacent to the 111th Street and 23rd Avenue alignments. Both of these routes are planned as arterial standard roadways with eventual upgrading of 111th Street to Freeway standard. The exact location of the rapid transit with respect to the roadway right-of-way will ultimately depend on the transit technology and construction techniques and costs at the time of installation. The attitude (i.e. elevated, surface, depressed or under-ground) of the transit line and the operating characteristics of the transit hardware require consideration in the location of the transit lines related to development. Such elements as noise pollution, visual effects and physical safety can only be considered when the transit technology and attitude are finally determined.

The Kaskitayo Outline Plan recognizes the lack of definition in the transit configuration at this stage and provides flexibility in the final choices through the location of the transit lines in conjunction with major roadways in transportation corridors.

Flexibility should be maintained in the development of the lands in the vicinity of the transit line and the station itself. Considerations for the interim use of property which may be required for future right-of-ways should be made at the time detail planning is being carried out in the areas concerned. The land uses could range from the acquisition of land at the time of subdivision, and its maintenance as a green area until needed, to complete development in a form that can be readily discontinued when the transit line is required.

The station itself should be integrated in the best manner possible with the proposed surrounding land uses which include high density residential development, commercial facilities, educational facilities and parking. The separation of automobile and pedestrian traffic is desirable in this high activity focal area and should be an objective to be considered in the design of facilities. The surrounding developments, which will be built prior to the construction of the rapid transit station, should be constructed in such a manner that full advantage can be derived from the ultimate development.

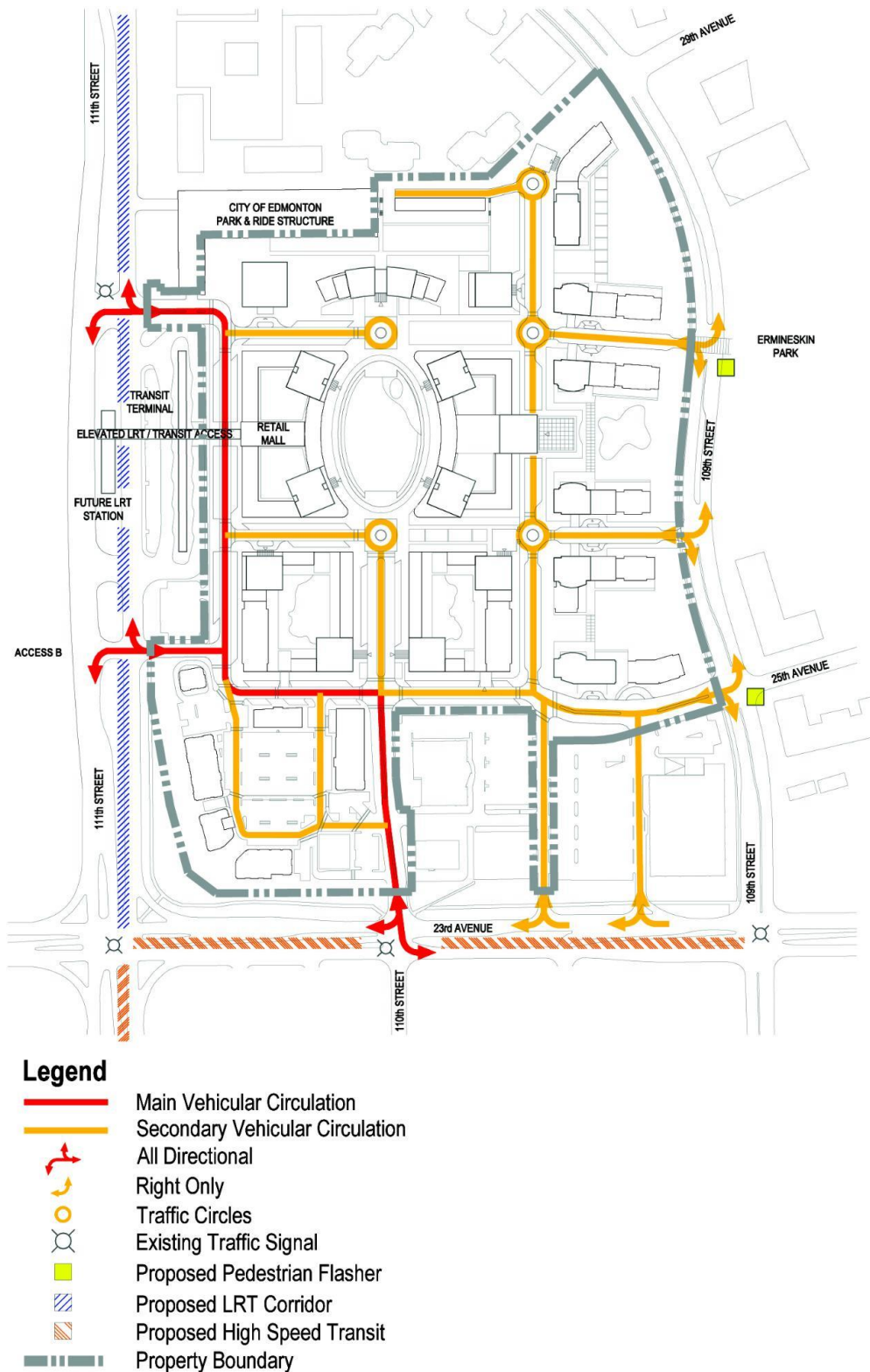
The Transportation Master Plan, which was approved by Council in 1999, recommended the extension of the LRT from the University of Alberta to Heritage Mall. In accordance with this Master Plan and the Transportation System Bylaw 11778, a transit corridor has been reserved on 111 Street to accommodate future high-speed bus lanes and the LRT. The proposed LRT line will extend from the current University Station south to the proposed Southgate Station, and then south along the median of 111 Street to Heritage Station, located approximately at 111 Street and 23 Avenue. Plans for future LRT expansion to Heritage Station include a Park n' Ride facility located adjacent to 111 Street north of 23 Avenue. The land for this facility has already been designated by the City of Edmonton. 111 Street south of 23 Avenue and 23 Avenue east of 111 Street are designated for High Speed Transit (HST).

January 26, 2005

When LRT is extended to the site, the need for optimum integration of the development, LRT and bus terminals and Park n' Ride facility may result in building configurations, access connections to 111 Street and property boundaries that vary from what is shown in the figures in this document. Such variances would not require a subsequent amendment to the Kaskitayo Outline Plan if the result remains true to the overall intent of this amendment.

January 26, 2005

Access and Circulation



NOTE: The final configuration of accesses on 111 Street will be determined with the ultimate LRT design. Access B may not be all-directional.

Surface (Bus) Transit System: The bus transit service to Kaskitayo has been examined in regard to the ultimate relation to rapid transit as well as service requirements at various stages of development prior to installation of the rapid facilities.

The ultimate development of the bus routing in Kaskitayo is shown on Plate 8. Two routes, each of approximate six miles round-trip length, service the Kaskitayo area and focus at the rapid transit station in the district centre. The northwest community is served through a large bus loop that feeds out along 30th Avenue and along the east side of the district centre to the transit station. This line continues south across 23rd Avenue to serve the area adjacent to the Blackmud Ravine and also crosses 111th Street to pick up patrons on the west side of 111th Street and south of 23rd Avenue. Residents of the northwest community are served to their community centre and junior high school facilities as well as to the district centre transit station and senior high school campus through this bus route. Southwest residents in Kaskitayo are served to the south community centre, junior high school facilities, the *Heritage Transit Centre* and the senior high school complex by the southerly extension of the same route.

Amended by Editor

The northeast and southeast areas of Kaskitayo are served through a bus route which runs north south through these communities, terminating in a small loop at each end and focusing on the district centre transit station. Both of these areas are served to community centre and junior high facilities through this route.

Interim transit service to Kaskitayo prior to rapid transit and during the various stages of development has been developed in conjunction with existing transit routes and their likely servicing pattern for the area. These routes can be readily stage to provide convenient service to initial development areas in Kaskitayo. Criteria for the interim bus routes include:

- (a) Compatibility with existing or proposed transit services,
- (b) Coverage of the developed area in any given stage,
- (c) Service to the district centre and senior high school campus,
- (d) Use of roadways that are designed as bus routes in ultimate development.

Access to the *urban village* would be from a collector road along the east side of the site, and provided when the intersection of 111th Street and 23rd Avenue becomes a grade-separated interchange. The phasing of the major roadway system is discussed later in this report.

January 26, 2005

5. High Schools and District Recreational Facilities

The public and separate senior high schools along with the district athletic grounds and district park will occupy about 80 acres (32.4 hectare) at the intersection of 23rd Avenue and 111th Street. The combining of these sites will optimize space utilization and will reduce the area that would be required to buffer each individual site. The site will include an area of 5 acres (2.0 hectares) for the proposed district water reservoir.

Amended by Editor

Amended by Editor

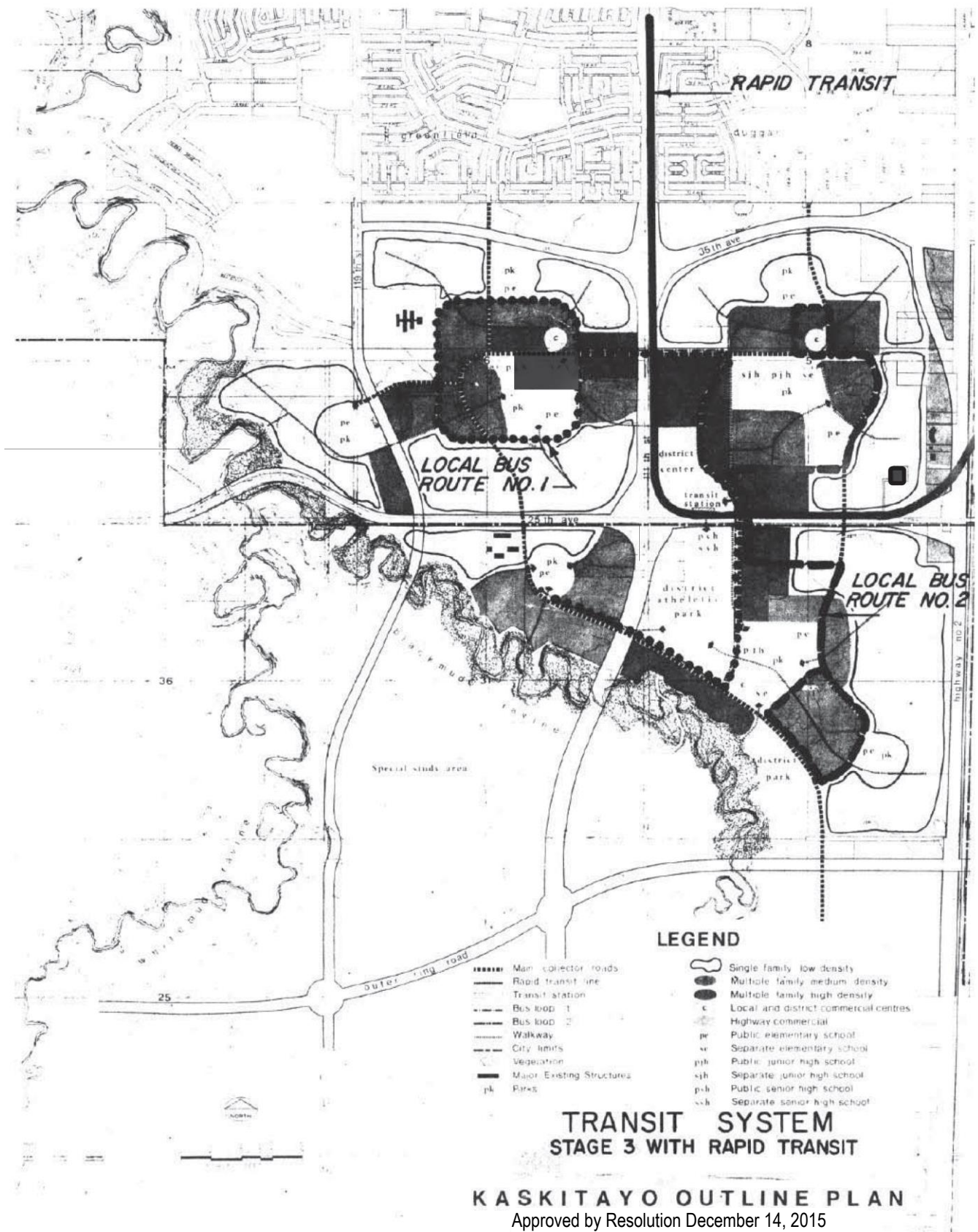
Location of the high school-district athletic park complex south of 23rd Avenue and east of 111th Street has been defined on the basis of several considerations in the planning of the Kaskitayo area. The high school-district athletic park area is intended to serve the entire outline plan area and as such requires a centre location. With the possibility of open enrollment programs in the Public High Schools, the location of these facilities should also be related to the city-wide transportation network.

The roadway and transit functional parameters, in conjunction with the planning of land use on a community level within the outline plan area, also defined the proposed high school-district park location. With the location of a rapid transit station and consequently the *urban village* facilities east of 111th Street, the high school-district athletic park location was also best located east of 111th Street. The 80 acre (32.4 hectare) requirement from the northeast community would have seriously reduced the size and viability of this community. A similar deficiency would occur in the north-west community if the facilities were to be located there. Thus the location south of 23rd Avenue and east of 111th Street was examined and selected as optimal from a land-use arrangement standpoint.

January 26, 2005

Amended by Editor

An analysis of the selected location, from the standpoint of transportation, indicate the high school-district athletic park area is well served from all parts of the outline plan area by both local transit and by the arterial road system. The location is also suitable in respect to the city-wide road network as it is adjacent to the 23rd Avenue - 111th Street inter-change. From the rapid transit station, the high school complex is served by both bus routes. With proper scheduling of the two local buses, a frequent and convenient service to the school will be provided.



With regard to staging of the senior high schools, the complete development of the two north communities would provide enough students to require only about one half of the capacity of the facility. Requirements for a senior high school before the completion of these areas would be dependent upon demands from other outline plan areas to the east or west, it is therefore important that the schools in Kaskitayo be located on a major east-west roadway which provides good access to these outlying areas.

The proposed high school-district athletic park-district centre interrelationship in the linear grouping shown on the general land use plan provides a strong landscape element between the ravine and the *urban village*. It is also notable that with the proposed location of the high school-district park complex, the entire area around the rapid transit station is available for high density residential, commuter parking and *urban village* uses, with a strong bus transit connection providing a link to the high schools.

January 26, 2005

January 26, 2005

6. Residential Land Use

(a) Multiple-Family Residential

Multiple-family residences will make up about 50 percent of the dwelling units in the Kaskitayo area.

The highest-density residential areas, consistent with Edmonton zoning classifications of R-3, and in special cases R-3A, will be located in proximity to, or as part of, the *urban village*, the community centres and the high amenity area along Blackmud Ravine, in conjunction with the high school-district athletic grounds and the district park. The residential land use distribution is shown schematically on Plate 7, General Land Use Plan.

January 26, 2005

Apartments could account for about 38 percent of the total number of units. If plans for the development of rapid transit in Kaskitayo become definite, reserve areas can be provided for higher density housing in proximity with the rapid transit station at the *urban village*.

January 26, 2005

Medium-density residential primarily consisting of row housing or cluster housing will be located in conjunction with the public elementary schools. Where conditions permit, the areas of multiple-family attached housing will be located adjacent the public elementary schools and community centres. Multiple-family attached housing will make up 25 percent of the total number of housing units in Kaskitayo.

Development of the radio transmitter tower site shall incorporate a 4 storey medium density residential development and shall be regulated through a DCI Site Specific Development Control Provisions.

November 2, 2015

(b) Single-Family Residential

Single-family detached houses with intermixed duplex housing will occupy the remainder of the residential areas. Duplex houses will account for 10 percent of the total number of detached and semi-detached housing units.

The isolation of the area west of 119th Street and its proximity of the Whitemud Ravine make it a prime area for high quality detached housing (zoning classification - Restricted Residential). This type of development would continue a trend that has been established immediately north of the area in Westbrook Estates.

The relative proportions of residential areas are outlined in Section D, Residential Development and Housing Proportions, of this report. These are presented only as guidelines and do not attempt to prescribe the market. The main purpose of the table is to exemplify a population distribution upon which school accommodations and public service requirements can be estimated.

(c) *Mixed Use Residential*

August 30, 2010

Mixed-Use Residential and Commercial uses shall be developed on Lot 3, Plan 663RS, located west of the Gateway Boulevard/Calgary Trail corridor, approximately 400 m north of 23rd Avenue N.W.

Development objectives for this site are:

- *to create a mix of residential and commercial uses that accommodates various income levels, lifestyles and employment opportunities in proximity to a major transportation corridor;*
- *to promote a high quality development through a combination of architectural treatment, design details, materials and landscaping of open space to encourage a building form that does not dominate the site, fosters diversity and fits within the context of the Calgary Trail corridor; and*

- *to employ sustainable development principles in the planning, design, construction and management of development on site.*

August 30, 2010

Development on this site shall incorporate commercial or office uses on the ground and second floors and residential uses on the upper floors and shall be regulated through a DC2 Site Specific Development Control Provisions. The DC2 Provisions shall address, among other regulations, the following:

- *Residential, commercial, office and signage uses;*
- *Building height, setbacks, amenity areas and number of units;*
- *Built form including exterior building materials to ensure that the visual interface between the development and Calgary Trail is attractive and incorporates a variety of architectural elements;*
- *Sustainability principles; and*
- *On-site surface and underground vehicular parking.*

7. Open Space

Reference has been made to various aspects of open space in the preceding sections dealing with the development of the plan. Space for a hierarchy of public parks, including the district and neighbourhood parks and the elementary and junior high school sites, can be allocated within the normal dedications on the gross developable area. The overall density proposed for Kaskitayo is 22 persons per gross acre (*54.34 persons per gross hectare*). Approval of development with population densities over 20 persons per acre (*49.4 persons per hectare*) is conditional upon the provision of open space reserves in excess of 10 percent of the gross developable area. Through efficient design of the circulation network, which can be maintained at requiring only 25 percent of the developable area, open space of up to 15 percent can be provided for areas of higher density and multiple-family housing within the maximum 40 percent dedication for residential roadways and public reserves now allowed by provincial statutes and regulations.

Amended by Editor

Amended by Editor

8. Pedestrian Walkway System

The principles upon which the system of pedestrian walkways is based have been outlined in Section III, B. 6; Pedestrian Circulation, *Page 22*.

Amended by Editor

The walkway system for the Kaskitayo Area will be designed upon the following hierarchy:

- (a) Major Walkways - These will provide direct pedestrian connections between the main parts of a neighbourhood, community, *urban village* facilities, and to other neighbour-hoods. January 26, 2005
- (b) Minor Walkways - These will provide connections between residential housing groups and the major walkways.
- (c) Sidewalks - Sidewalks of varying width will be provided within the rights-of-way of roadways carrying the bus system.
- (d) Walkways Connecting with Each Residence

At the option of the developer, walkways connecting with each dwelling unit would either be sidewalks or a full walkway system. The latter would be developed for a complete residential community unit where the siting of all the dwelling units could be oriented to accommodate the walkway system in a comprehensive manner.

A circulation system based on the principle of separating pedestrians and vehicular movement whenever possible in residential areas is recommended for the Kaskitayo area. This should be designed to provide a safe and direct link between housing groups and the community centre, as well as elementary schools and other social or recreational facilities.

A partial walkway system, in which sidewalks form a part of the circulation pattern should be used. The principles and guidelines set out in the *Sustainable Development's* "Walkways in Residential Areas" report should be followed in the detail design of the area.

Amended by Editor

The general land use plan indicates only the major elements of the system appropriate to the scale of the plan. Details of the system will be determined during the specific planning of the neighbourhoods concerned.

The walkways shown indicate desire lines linking residences to the neighbourhood and community centres, as well as the district centre. The system will generally be separate from the vehicular routes and will channel pedestrian traffic to street crossings at safe, regulated points. Bus stops will be established at the points of intersection of the walkways and the transit route.

The comprehensive pedestrian circulation system should also connect the residential areas to the ravine system along the creeks to encourage public use of these prime landscape features.

9. Incorporation of Existing Development

(a) Institutional

The sites of both the Providence Centre and the North American Baptist College will remain adjacent to collector or major roadways in any phase of future development. It is anticipated that part of the land within their present holdings may be developed for new uses, predominately residential.

(b) Commercial

The existing commercial land uses adjacent to Highway No. 2 (*Calgary Trail*) will be incorporated in a highway commercial area. Owing to the desirability of land uses with frontage on major roads, this commercial strip could extend along the length of Highway No. 2 (*Calgary Trail*) within Kaskitayo, with particular concentrations adjacent the major intersections.

Amended by Editor

Amended by Editor

A further special development area will be allocated for land uses which would benefit from proximity to the Highway, the residential area and the possible rapid transit line. Examples of such uses are re-locatable homes or special additional shopping or commercial uses and institutional facilities. This area is separated from the adjacent residential area by a section of the collector roadway-bus loop.

(c) Pipelines and utility Lines

With respect to detailed development, all existing pipelines and utility lines can be incorporated along or within future roadway rights-of-way except for the gas and oil lines south of 23rd Avenue.

The most northerly of these lines can be partially incorporated as an appropriately landscaped walkway leading to the Blackmud Ravine. Detailed physical planning is necessary to make the most efficient use of the areas interested by the diagonal pipeline alignments.

C. Land Use Summary

Calculation of Gross Developable Area & Residential Density

Within the Kaskitayo scheme, optimum population will be based on the definition of gross developable area accepted by the City up to maximum of 22 persons per gross acre (*54.34 persons per gross hectare*).

Amended by Editor

The land located approximately 400m north of 23 Avenue N.W. and west of Calgary Trail (Lot 3, Plan 663RS) will be developed for mixed use residential and commercial uses, incorporating commercial or office uses on the ground and second floors and residential uses on the upper floors and shall be regulated through a DC2 Site Specific Development Control Provisions.

August 30, 2010

In general, higher density residential zoning will be centered in proximity to *urban village* and district park, based on present City criteria, but will also be applied to a lesser extent to the vicinity of community service centres. The purpose of this is to enable comprehensive development of land by units with a range of densities below the maximum permitted by the City for this zoning category.

January 26, 2005

The lands situated west of 119th Street are intended exclusively for single family residential uses developed to a high standard. The maintenance of standards in this area might best be accomplished by the application of an appropriate zoning category rather than an imposition of caveat restrictions applied against the land.

The following tables have been prepared in accordance with gross developable area calculations relating directly to the definition provided by the *Sustainable Development*.

Amended by Editor

The following statistics were provided in the original Outline Plan. Since that time, the Plan area has been reduced by the removal of the Twin Brooks Neighbourhood Area Structure Plan, Keheewin Neighbourhood Area Structure Plan, and Running Creek Neighbourhood Structure Plan areas.

Amended by Editor

The amendment approved by resolution on January 26, 2005, converted the Heritage Mall site to an Urban Village and provided the revised statistics for the plan area, which can be found in Appendix C.

Amended by Editor

The amendment approved by resolution on November 2, 2015, the telecommunications tower site from Single Family Low Density to Multiple Family Medium Density residential uses.

November 2, 2015

General Land Area Summary¹

The total gross land within the Kaskitayo Outline Plan area amounts to 3,075 acres (1244.4 hectares). The Gross Developable area is the total planning area with the exception of:

Amended by Editor

1	Ravine land within the top of bank and 25 feet beyond the top of bank	= 450 acres (182.1 ha)	Amended by Editor
2	The area needed for freeway rights-of-way (111th St.)	= 70 acres (28.3 ha)	Amended by Editor
3	The area for major utility rights-of-way (south community)	= 35 acres (14.2 ha)	Amended by Editor
4	The area for highway commercial use	= 60 acres (24.3 ha)	Amended by Editor
5	The area which requires further study prior to determining metropolitan expansion area (special study area)	= 640 acres (259.0 ha)	Amended by Editor

Total land to be excepted	= 1,255 acres (507.9 ha)	Amended by Editor
Which leaves a gross developable area of	= 1,820 acres (736.5 ha)	Amended by Editor

However, these portions of land lying to the north of 34th Avenues form the final stages of the Greenfield and Duggan subdivisions and consist of 70 acres (28.3 ha) and 60 acres (24.3 ha) respectively. If these are also deleted the gross developable area within the three neighbourhoods which make up Kaskitayo is 1,690 acres (683.9 hectares).

Amended by Editor
Amended by Editor
Amended by Editor

Within the development area the following land uses have been projected for the locations shown on the general land use plan:

Residential land uses ²	= 1,370 acre (554.1 ha)	Amended by Editor
Schools and Parks ³	= 281 acre (113.7 ha)	Amended by Editor
Local Commercial	= 9 acres (3.6 ha)	Amended by Editor
District Centre including Transit Station	= 30 acre (12.1 ha)	Amended by Editor
Total Gross Developable Area	= 1,690 acre (683.9 ha)	Amended by Editor

¹ Areas are subject to adjustment as a result of surveys during subdivision

² See housing proportions of the following pages

³ See table of neighbourhood parks and schools on the following pages

D. Residential Development and Housing Proportions

The following tables indicate a suggested mix of housing types and the projected population and student estimate which would result on the basis of an overall average density of 22 persons per gross developable acre (*54.34 persons per gross developable hectare*).

Amended by Editor

These projections are an example of development based on currently acceptable assumptions and have been estimated to establish the number and locations of school sites and parks.

Flexibility will be possible for varying the mixtures of housing type within the general public reserve allocation and densities established here.

1. Northeast Community (east of 111th St. and north of 23rd Ave.)

ERMINESKIN = 500 acres (*202.3 hectares*)

Amended by Editor

Estimated total number of dwelling units	= 2,900 units
Single family low density = 75% of area	= 1,450 units
Multiple family medium density = 17% of area	= 970 units
Multiple family high density = 8% of area	= 580 units
Total Estimated Population	= 11,180 people

November 2, 2015

November 2, 2015

Estimated School Generation:

	Public	Separate
Elementary Students	1,255	550
Junior High Students	575	250
Senior High Students	425	180

2. Northwest Community (west of 111th St. and north of 23rd Ave.)

BLUE QUILL

= 580 acres (284.7 hectares)

Amended by Editor

Estimated total number of dwelling units = 3,175 units Single family low density = 82% of area	= 1,900 units
Multiple family medium density = 15% of area	= 950 units
Multiple family high density = 3% of area	= 325 units
Total Estimated Population	= 12,750 people

Estimated School Generation:

	Public	Separate
Elementary Students	1,460	625
Junior High Students	675	290
Senior High Students	510	220

3. South Community (south of 23rd Ave.) = 610 acres (246.9 hectares)

Amended by Editor

Estimated total number of dwelling units	= 3,500 units
Single family low density = 75% of area	= 1,750 units
Multiple family medium density = 18% of area	= 1,100 units
Multiple family high density = 7% of area	= 650 units
Total Estimated Population	= 13,400 people

Estimated School Generation:

	Public	Separate
Elementary Students	1,540	660
Junior High Students	710	305
Senior High Students	520	225

E. Parks and School Sites

Kaskitayo School Catchment Areas

A basic organization of neighbourhood, community and district centres was included in Plate No. 6 which also indicates elementary school catchment areas. The proposed hierarchy of school-park areas is generally in accordance with guidelines as set out by the City of Edmonton, *Sustainable Development* Information as to limits on tributary areas for existing schools located in the Greenfield and Duggan areas was also provided through *Sustainable Development*.

Amended by Editor

Amended by Editor

Elementary school catchment areas are development units which, relate to larger community units that are generally bounded by the arterial road system. A total of 8 elementary school units make up the whole of Kaskitayo development area north of the Blackmud Ravine.

A total of 3 community units are planned, each of which is basically the tributary area for a public junior high school and separate elementary school.

The northeast community further includes a site for a separate junior high school whose tributary area could also include the existing Duggan and Greenfield communities.

The tributary areas for both public and separate senior high schools are the entire Kaskitayo Outline Plan Area including consideration of the special study area and may also overlap into existing residential areas to the north.

The following tables indicate the proposed school sites:

Parks and School Sites:

<u>Northeast Community (ERMINESKIN)</u>			
Public Elementary School and Neighbourhood Park 1 site @ 16.5 acres (6.7 ha)	=	16.5 acres (6.7 ha)	Amended by Editor
Public Junior High School – Public Elementary School - Separate Junior High School - Separate Elementary School - Neighbourhood Park, 1 site @ 38.5 acres (15.6 ha)	=	38.5 acres (15.6 ha)	Amended by Editor
<u>Northwest Community (BLUE QUILL)</u>			
Public Elementary School and Neighbourhood Park 2 sites @ 16.5 acres (6.7 ha)	=	33.0 acres (13.4 ha)	Amended by Editor
Public Junior High School – Public Elementary School - Separate Elementary School - Neighbourhood Park 1 site @ 33.5 acres (13.6 ha)	=	33.5 acres (13.6 ha)	Amended by Editor
<u>South Community</u>			
Public Elementary School and Neighbourhood Park, 1 site @ 16.5 acres (6.7 ha)	=	16.5 acres (6.7 ha)	Amended by Editor
Public Elementary School - Separate Elementary School - Neighbourhood Park 1 site @ 21.5 acres (8.7 ha)	=	21.5 acres (8.7 ha)	Amended by Editor
Public Junior High School – Public Elementary School - Separate Elementary School - Neighbourhood Park 1 site @ 33.5 acres (13.6 ha)	=	33.5 acres (13.6 ha)	Amended by Editor
<u>District</u>			
Public Senior High School - Separate Senior High School - District Athletic Facilities -1 site @ 68.0 acres (27.5 ha)	=	68.0 acres (27.5 ha)	Amended by Editor
District Park - 1 site @ 20.0 acres (8.1 ha)	=	20.0 acres (8.1 ha)	Amended by Editor
Total School and Park Area	=	281.0 acres (113.7 ha)	

Proportion of schools and parks to total gross developable area: 16.6%

V. STAGING OF DEVELOPMENT

Preliminary engineering and planning studies have been carried out to identify the first stages which can be most economically developed. In the analysis it has been assumed that the area to the north of 34th Avenue will form a part of the Greenfield and Duggan areas and that all school and similar community needs can be met there. In addition, the servicing of this area with utilities will be readily carried out, thus allowing detail planning and plan registration to proceed.

For the areas to the south of 34th Avenue the following servicing schedule has been identified:

1. The storm sewer outfall to Whitemud Creek will be completed from 111th Street by the fall of 1974. A shaft immediately west of 111th Street would be available to accept run-off from a local storm drainage network at that time.
2. The sanitary sewer will be extended south on 106th Street to 34th Avenue, thence south westerly to a proposed manhole site to the west of 111th Street and near 30th Avenue. It is expected that this sewer would be available to provide service to the area by the fall of 1974. The extension of the 119th Street trunk will allow servicing of about 90 acres in the north western part of the northwest community.
3. Water mains will be installed west along 34th Avenue to 119th Street in 1974 and east along 34th Avenue soon after. Lateral distribution lines can be extended into the development areas as required.
4. Electrical power, telephone and natural gas services can be provided to any portion of Kaskitayo which is approved for development by 1974. There is sufficient capacity in all of these utilities to allow limited development to proceed.
5. Roadways

Initial development will require the provision of the proposed 34th Avenue alignment. The location for this roadway can be defined during the detail planning of the area lying to its north and initial construction can be started immediately thereafter. The proposed inter-change requirements at 34th Avenue and 111th Street can also be delineated at that time.

Detail studies are not yet sufficiently completed to determine the ultimate requirements for 111th Street. However initial stages of residential development could be conveniently served with the first phase of a four lane divided arterial roadway, with at-grade intersections, similar to that presently built to the north of Kaskitayo.

Therefore, from a utility servicing point of view, the most efficient and economical lands on which to begin development will be the area surrounding the intersection of 111th Street and 30th Avenue. Development radiating out from this point is the most feasible initial building pattern.

Residential land use staging should also proceed in such a manner that other public facilities, such as schools and recreation areas, can be efficiently utilized as well. This does not necessarily mean that all the land proposed to be included within a neighbourhood must be developed before starting building in other areas, but it does mean that sharing of facilities across neighbourhood boundaries may be necessary during formative stages of growth within the communities.

For instance, it would be possible to initiate development in the east half of Section 6, adjacent to 111th Street. Public elementary and separate elementary schools in the south east neighbourhood could meet all early requirements in the area and the public elementary school for the north neighbourhood could be constructed when required at a later date. A similar situation could take place on those lands within the west half of Section 5, east of 111th Street.

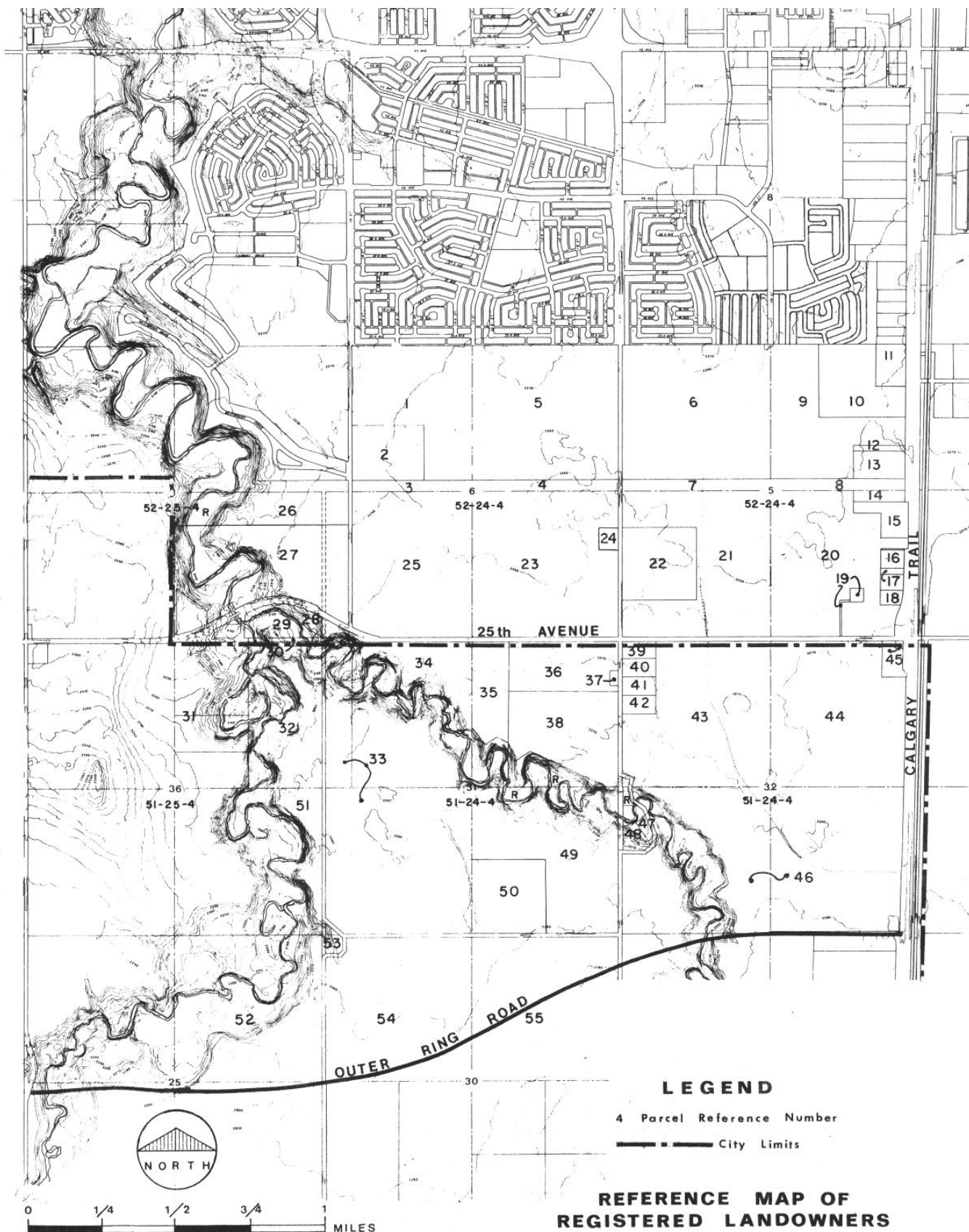
The developers have identified sufficient market demand to justify the initiation of the first stages of development early in 1974. Detail plans of the areas are required to allow further planning of public facilities to be carried out. They will also indicate a more specific location of the land uses proposed within the development area. It is recommended that the east half and the west half of Sections No. 6 and No. 5 respectively be planned as the first stage of development.

APPENDIX A

KASKITAYO OUTLINE PLAN AREA LIST OF REGISTERED LAND OWNERS

Number	Map Reference	Certificate of Title	Area Acres	Registered Owners	
1.	NW Sec. 6 R.	167-Y-210	90.06	<i>Private Corporation</i>	Amended by Editor
2.	NW Sec. 6 R.	40-1-204	30.00	<i>Private Corporation</i>	
3.	NW Sec. 6 R.	12-P-157	9.94	<i>Private Corporation</i>	
4.	NE Sec. 6	221-N-158	12.13	<i>Private Corporation</i>	
5.	NE Sec. 6	215-N-191	147.87 4 int.	<i>Private Corporation</i>	
		216-N-191	72.95/400int.	<i>Private Corporation</i>	
		111-V-192	27.05/400int.	<i>Private Corporation</i>	
		217-N-191	1/8 int.	<i>Private Owner</i>	
		209-D-207	1/16 int.	<i>Private Owner</i>	
		210-D-207	5/16 int.	<i>Private Owner</i>	
6.	NW Sec. 5	176-H-107	144.24	<i>Private Owner</i>	
7.	NW Sec. 5	41-U-158	11.76	<i>Private Corporation</i>	
8.	NE Sec. 5	205-J-157	11.19	<i>Private Corporation</i>	
9.	NE Sec. 5	180-T-246	75.97	<i>Private Corporation</i>	
10.	NE Sec. 5	235-L--207	47.70	<i>Private Owner</i>	
11.	NE Sec. 5	139-N-246	8.46	City of Edmonton	
12.	NE Sec. 5	24-E-245	2.14	<i>Private Corporation</i>	
13.	NE Sec. 5	23-E-245	10.72	<i>Private Corporation</i>	
14.	SE Sec. 5	25-E-245	4.29	<i>Private Corporation</i>	
15.	SE Sec. 5	104-G-244	8.68	<i>Private Corporation</i>	
16.	SE Sec. 5	137-B-245	3.30	<i>Private Corporation</i>	
17.	SE Sec. 5	166-P-236	3.92	<i>Private Corporation</i>	
18.	SE Sec. 5	31-D-246	2.46	<i>Private Corporation</i>	
19.	SE Sec. 5	242-X-277 & 155-Y-205	1.99	Alta. Government Telephone	
20.	SE Sec. 5	241-X-227	118.71	<i>Private Owner</i>	Amended by Editor
21.	SW Sec. 5	159--L-234	119.39	<i>Private Owner</i>	
22.	SW Sec. 5	158-L--234	40.36	<i>Private Corporation.</i>	
23.	SE Sec. 6	222-B-243	155.00	<i>Private Corporation</i>	
24.	SE Sec. 6	11-M-116	5.00	<i>Private Owner</i>	
25.	SW Sec. 6	175-T-180	130.71	<i>Private Owner</i>	
26.	SE 1 & Fr SW 6	175-U-212	28.91	<i>Private Institution</i>	
27.	SE 1 & Fr SW 6	177-T-180	102.74	<i>Private Owners</i>	
28.	SE 1	196-T-240	8.98	<i>Private Owner</i>	
29.	SE 1	213-T-180	14.35	<i>Private Owner</i>	
30.	SE 1	201-U-6	2.09	<i>Private Owner</i>	
31.	E½ 36	129-E-235	120.00	<i>Private Corporation</i>	
32.	NE Sec. 36	224-H-162	80.00	<i>Private Owner</i>	
33.	W½ Sec. 31	192-Q-196	257.01	<i>Private Institution</i>	
34.	NW Sec. 31	245-F-130	76.50	<i>Private Owner</i>	
35.	NE Sec. 31	248--H-225	26.70	<i>Private Institution</i>	
36.	NE Sec. 31	222-L-242	40.00	<i>Private Owners</i>	

Number	Map Reference	Certificate of Title	Area Acres	Registered Owners	
37.	NE Sec. 31	22-0-245	1.00	<i>Private Owner</i>	Amended by Editor
38.	NE Sec. 31	194-U-181	63.13	<i>Private Owner</i>	
39. 40. & 42.	NW Sec. 32	64-I-242	13.54	<i>Private Owner</i>	
41.	NW Sec. 32	188-C-242	4.59	<i>Private Corporation</i>	
43.	NW Sec. 32	124-J-63	135.73	<i>Private Owner</i>	
44.	NE Sec. 32	227-S-200	139.38	<i>Private Owner</i>	
45.	NE Sec. 32	8&9-P-228	5.78	<i>Private Owners</i>	
46.	S½ Sec.32	70-B-236	289.06	<i>Private Owner</i>	
47.	SW Sec. 32	88-V-212	3.69	<i>Private Owner</i>	
48.	SW Sec. 32	203-X-187	4.72	<i>Private Owners</i>	
49.	SE Sec. 31	78-S-190	119.50	<i>Private Owner</i>	
50.	SE Sec. 31	19-Y-240	39.50	<i>Private Owner</i>	
51.	SE Sec. 36	91-J-162	80.00	<i>Private Owners</i>	
52.	NE Sec. 25	120-B-164	161.00	<i>Private Owner</i>	
53.	NW Sec. 30	209-1-163	2.50	<i>Private Owner</i>	
54.	NW Sec. 30	2-F-246	152.09	<i>Private Owner</i>	
55.	NE Sec. 30	213-X-125	157.00	<i>Private Owner</i>	



APPENDIX B

TRAFFIC ENGINEERING ANALYSIS

The basic arterial roadway pattern for the Kaskitayo area was established by the City of Edmonton in a study of the roadway network in southwest Edmonton. The general alignment and category of facilities was established. The traffic engineering analysis carried out for purposes of preparing the outline plan involved generation and distribution studies and an assignment of volumes to the major road network to examine capacity and to indicate interchange configurations.

A. Trip Generation

Generation rates for automobile trips were developed from existing and projected conditions in Edmonton.

1. 0.15 auto trips per capita in the A.M., peak hour for single family residential (no rapid transit).
2. 0.13 auto trips per capita in the A.M., peak hour for multiple family dwellings (no rapid transit).
3. 0.10 auto trips per capita in the A.M., peak hour for northbound trips only (with rapid transit).

B. Trip Distribution

The distribution of origins and destinations for traffic to and from the Kaskitayo area was determined from two sources. The Metropolitan Edmonton Transportation Study origin-destination table for District 27 and the origin-destination study completed for S.E.D.A. by the City of Edmonton were compared and found to be in close agreement on percentages assigned to each cardinal direction. The City was then split into North, South, East and West zones considering Kaskitayo as the centre for purposes of the trip distribution. Percentages of traffic to and from Kaskitayo having origin or destination in each of the major zones are projected as follows:

North	55%
East	25%
West	9%
South	1%
Internal	10%

The morning peak hour trips were distributed according to this breakdown.

C. Traffic Assignment

Two assignments for A.M. peak hour traffic out of the Kaskitayo area were done; one with rapid transit and one without. Both assignments were non-capacity restrained and both were as directional as possible in assigning volumes in their general direction of destination.

Heavy volumes are noticeable on 111th Street northbound in the A.M. peak hour as this facility is centrally located within Kaskitayo and runs in the direction of the major destination demand.

Much of the northbound traffic from the area between the Blackmud and Whitemud Ravines has been assigned to 111th Street, through the 23rd Avenue interchange, for the purpose of this assignment.

D. Interchange Configuration

The interchange at 111th Street and 23rd Avenue is recommended to be a Diamond configuration as shown in the City's roadway plans. This is the major east-west-north-south interchange point in the Kaskitayo area.

The interchange at 111th Street and 34th Avenue is recommended to be a Diamond configuration. The traffic volumes from within Kaskitayo and the areas to the north of Kaskitayo using this interchange are such that a diamond type can be expected to serve adequately.

E. Arterial Roadway Capacity

Traffic volumes assigned to the arterial roadway system in Kaskitayo, accounting for traffic generated in the area, indicate the following approximate lane requirements:

1. 23rd Avenue

3 lanes in each direction (arterial standard). A good capacity reserve is available under this arrangement for traffic not having origin or destination within the Kaskitayo area.

2. 34th Avenue

2 lanes in each direction (arterial standard). A warrant for one additional lane in each direction on 34th Avenue between Highway 2 and 111th Street may develop if volumes external to the area were increased to more than 100% of traffic generated in Kaskitayo. The section of 34th Avenue between 119th Street and 111th Street should never require more than 2 lanes in one direction as 34th Avenue is dead-ended at 119th Street. Accounting for appreciable volumes from north of 34th Avenue, as well as from Kaskitayo, operation on 34th Avenue with 2 lanes in each direction is well above level of Service C.

3. 111th Street

Volumes assigned to 111th Street require a limited access facility of higher category than arterial for Kaskitayo volumes alone. In addition, 111th Street is a major artery for City wide traffic as well as a possible external Highway connection. For these reasons, the standard and lane requirements on 111th Street can only be defined through a study of City wide requirements as well as local traffic generation.

4. 119th Street

Kaskitayo volumes assigned to 119th Street would require 2 lanes in each direction. This street, however, has a wider service area than Kaskitayo and may require 3 lanes in each direction, depending on assignments from other areas and the standard of parallel north-south facilities.

5. Existing Highway No. 2

Assignments from Kaskitayo to existing No. 2 Highway are not major in proportion to the external highway and City wide traffic volumes carried by this route. Definition of standard and lane requirements is therefore outside the scope of this study.

APPENDIX C
NOVEMBER 2, 2015

**1973 LAND USE FORECAST
KASKITAYO OUTLINE PLAN**

	Area (ha)	% of GDA
Gross Developable Area	683.90	100%
Residential Land Uses	554.41	81.1%
Schools and Parks	113.71	16.6%
Local Commercial	3.64	0.5%
District Centre including Transit Station	12.14	1.8%
	<hr/> 683.90 <hr/>	
	Units	% of Total Units
Single Family Low Density Units	5,100	53.3%
Multi Family Medium Density Units	2,920	30.5%
Multi Family High Density Units	1,555	16.2%
Total Residential	9,575	100.0%
Total Estimated Population		37,150

**2001 LAND USE AND POPULATION ANALYSIS
KASKITAYO AREA**

	Area (ha)	% of GDA
Gross Developable Area	533.30	100%
Residential	337.80	63.3%
Commercial	38.20	7.2%
Institutional	33.70	6.3%
Transportation	2.60	0.5%
Utilities	2.80	0.5%
Recreation & Open Space	112.50	21.1%
Vacant	5.70	1.1%
	533.30	
	Units	% of Total Units
Low Density Units	3,825	40.7%
Medium Density Units	5,060	53.8%
High Density Units	520	5.5%
Total Residential	9,405	100.0%
2001 Population		23,040

ESTIMATED LAND USE AND POPULATION IMPACT
AMENDMENT TO THE KASKITAYO OUTLINE PLAN
Amended by Resolution Approved November 2, 2015

	Area (ha)	% GDA
Gross Developable Area	533.30	100%
Residential	346.35	64.9%
Commercial	29.66	5.6%
Institutional	33.70	6.3%
Transportation	2.60	0.5%
Utilities	2.80	0.5%
Recreation & Open Space	112.5	21.1%
Vacant	5.70	1.1%
	533.30	

Impact of Development	Units	% of Total Units	Persons per Unit ¹	Population
Row Housing	47	1.6%	2.45	115
Low/Mid Rise Apartment	968	33.5%	1.86	1,800
High Rise Apartments	1,871	64.8%	1.60	2,994
Total Residential	2,886	100.0%		4,909
2001 Population				23,040
Estimated Future Kaskitayo Population after build out of development				27,949

Impact of Development – 2010 Amendment Calgary Trail north of 23 Avenue	Units	% of Total Units	Persons per Unit	Population
Mixed Use Residential (High Rise Apartments)	150	100%	1.60	240

Impact of Development – 2015 Amendment South of 26 Avenue and west of 104 Street	Units	% of Total Units	Persons per Unit	Population
Multiple Family Medium Density Residential (Low Rise Apartment)	100	100%	1.80	180

Population Projection for Kaskitayo OP (2005)	27,949
Estimated Future Kaskitayo Population after build out of development	28,369

Because of the absence of single detached dwellings, few families and hence students are anticipated. The table below shows the estimated student generation figures, assuming that 200 school-aged children live in the development.

Estimated Student Generation ²

	Elementary	Junior High	Senior High	Total
Public	90	34	31	155
Separate	26	10	9	45
Total	116	44	40	200

1. The 1999 Civic Census was used to as the basis for persons per unit counts because it is the latest data for which population totals by type of housing were available. In the 1999 Census, for the Kaskitayo area the average number of persons per unit in row housing was 2.45 and in apartments under 5 storeys was 1.86. Apartments 5+ stories had 1.81 persons per unit. It is assumed that the development's high rise apartments will be closer to 1.6 persons per unit, as they are expected to appeal to retired individuals, empty nesters and working singles rather than families. The people per unit figure may be closer to those seen in the Oliver and Garneau neighborhoods, which are 1.42 and 1.48 respectively in high rise apartments (City of Edmonton SELUS reports). Similar projects in Vancouver report an average of 1.62 people per unit.

2. Although new suburban areas have an average of .25 students per household, few students are generated in medium density development. As the development will have no single detached housing, it is assumed that only 20% of households - or 577 dwelling units – may have school-aged children. The table reflects a breakdown of 58% elementary, 22% junior high and 20% senior high students.