LAND DEDICATION RESERVE FUND APPLICATION

APPLICANT INFORMATION

Name of Organization: GlenElm Neighbourhood Association (GeNA)				
Mailing Address:				Postal Code:
Phone:		Fax No.:	E-mail address:	
Name(s) of designated representatives to be contacted about this application:	Name:	Lisa Forbes		Phone (daytime):
	Position:	Boulevard Trees Project Administrative Lead		Phone (evening):
	Name:	Emma Durand-Wood		Phone (daytime):
	Position:	Boulevard Trees Project Communications Lead		Phone (evening):
How long has the organization been in operation?		Re-established in 2016		

Select Community Committee Area where project is located:

Assiniboia ☐ City Centre ☐ Riel ☐

East Kildonan-Transcona ☒ Lord Selkirk-West Kildonan ☐

PROJECT INFORMATION

Name of Project:	Boulevard Trees Project		
Location of Project:	Glenelm		
Project is located on City of Winnipeg owned lands?	YES ☒ NO ☐		
Project Start Date:	May 15, 2019	Anticipated Completion Date:	Sept 15, 2020

Total Estimated Project Cost: $ 53,000

Land Dedication Reserve Fund Requested Amount: $ 53,000

LIST OTHER PROJECT FUNDING SOURCES	AMOUNT	CONFIRMED	
Source #1	$	YES ☐	NO ☐
Source #2	$	YES ☐	NO ☐
Source #3	$	YES ☐	NO ☐
Source #4	$	YES ☐	NO ☐
Source #5	$	YES ☐	NO ☐

DETAILED PROJECT DESCRIPTION

Provide a detailed description of the planned project, including:

- Community need/ support for the project
- Community consultation, if applicable (surveys, open houses, etc.)
- City of Winnipeg staff involved in project to date
- Scope of work
- Cost estimates/ quotes
- Project schedule

Project details, plans and supporting documentation may be submitted as attachments.

Three attachments within the application: Project Details, 2 Quotes.

APPLICANT SIGNATURES

I/We hereby certify that I/we am/are the authorized signing officer(s) for the applying organization and this application is accurate to the best of my/our knowledge.

SIGNATURE	NAME PRINTED	TITLE/POSITION	DATE
E R Wood	Emma Durand-Wood	Member of GeNA Core Organizing Committee	April 1, 2019
	John King	Member of GeNA Core Organizing Committee	1.4.19

Submit completed application to:

Urban Design Division
c/o Helen Fabbri ph: 204-986-6419, fax: 204-986-7524
Planning, Property and Development Department
15-30 Fort Street, Winnipeg, MB R3C 4X5
e-mail: hfabbri@winnipeg.ca

Land Dedication Reserve Fund Application –
Glenelm Neighbourhood Association (GeNA)
Boulevard Trees Project Description

A. Community Need for the Project

The main threats to Winnipeg's public trees

Winnipeg has the largest urban elm forest in North America[1] and collectively our city's trees have been valued at $5.6 billion[2]. At present there are two major threats to our urban forest: Dutch Elm Disease (DED) and the Emerald Ash Borer (EAB) beetle, two pests that thrive in monocultures—i.e. large tree populations of a single species; elm and ash are two such examples.

According to the city, it's almost inevitable that within ten years, virtually all of the ash in the city will be lost due to EAB infection. While loss of these trees is certain, the diseased trees are a hazard to people and property nearby, and significant resources will go into safe removal.

Thankfully, the situation with elms is less dire; the Urban Forestry department believes they have a fighting chance to save many elms through preventative treatments, early detection of DED, and quick removal of diseased trees. Still, more than 5000 are removed every year.

Shortfall of trees replanted compared to tree removals

When Martha Barwinsky, the City Forester, spoke to us last fall, she indicated that her department generally only has enough money to replace ***one of every two trees*** that are cut down. This proposal seeks to secure funding to make up that shortfall, and make sure that every tree that is removed gets replanted, and possibly adds extra trees to the boulevards so that they can get a head-start on growth.

As part of this application, a preliminary visual survey was taken by the committee to determine how many boulevard gaps there are where a tree was removed and not replanted. We estimate at present there are 98 such gaps.

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[1] October 2, 2015: Winnipeg is home to the largest urban elm forest in North America (Global News)
https://globalnews.ca/news/2254543/winnipeg-is-home-to-the-largest-urban-elm-forest-in-north-america/
[2] November 12, 2015: Seeing our forest for the trees (Brent Bellamy – Number Ten Architecture)
https://www.numberten.com/blog/26-urban-design/brent-bellamy/274-seeing-our-forest-for-the-trees

The Current, 10-year, (and 3 year) Projected Need for Boulevard Tree Planting in Glenelm – January, 2019

Type of tree	*Current inventory*	*Rate of loss*	*Total trees projected to lose*	*%age rate of replant*	*Total trees city can replant in its current budget*	*Number of trees needed for 100% replacement of loss*
a) Boulevard elm trees	355	27%	96	50%	48	48
b) Ash trees (boulevard)	133	100%	133	0%	0	133
c) Current empty gaps between boulevard trees	98	n/a	n/a	n/a	unknown	98
Total trees needed now						**98**
Total trees projected need in the next 10 years (with the next 3 years in brackets)						181 (54)

a) Public Elm Trees in Glenelm

Total public elm trees is 412 (355 on boulevards, 57 in parks). *Source: City of Winnipeg Open Data as of January 15, 2019.*

Rate of loss. A rate of 2.7% per year is used. The city forestry department estimates a 2.5 to 3.8 yearly loss in recent and projected times.

The historic loss averages 27% per year. "In the 1970's, there were 275,000 elm trees but due to Dutch Elm Disease, the city has lost about 75,000." [3]

Percentage rate of replant. An estimate stated in a Glenelm neighbourhood forum in September 2018 by city forester Martha Barwinsky – that 1 out of every 2 removed trees was being replaced from the city's Urban Forestry resources.

b) Public Ash Trees in Glenelm

Total public ash trees is 171 (133 on boulevards, 38 in parks). *Source: City of Winnipeg Open Data January 15, 2019.*

[3] October 2, 2015. Winnipeg is home to the largest urban elm forest in North America. https://globalnews.ca/news/2254543/winnipeg-is-home-to-the-largest-urban-elm-forest-in-north-america/

Rate of loss. We are using 10% per year, or 100% loss over a 10 year period. "The City of Winnipeg is at high risk to lose all of its ash trees within a 10-year period..." Minutes – Standing Policy Committee on Protection, Community Services and Parks February 5, 2018, Item No. 11 Emerald Ash Borer Preparedness, Response and Management Options Report, page 4.

Percentage rate of replant to replace removed trees from the city's Urban Forestry resources. There is no budget for the replacement of ash trees. The replant rate is 0%.

c) 98 Gaps in boulevard trees in the Glenelm neighbourhood
Visual survey by committee member on January 24, 2019. The surveyed area was from the boulevards of Talbot Avenue west of Henderson Highway north to Harbison Avenue W. west of Henderson Highway, and Henderson Highway centre median west to Glenwood Crescent.

B. Community Support/Consultation

Elms: our namesake and identity

For the Glenelm neighbourhood, elms are not just a beautiful characteristic of our neighbourhood. They are our namesake and part of our identity. Elmwood was named after Elmwood Cemetery; when the cemetery officially opened in 1902, a notice says the name comes from "the large number of handsome Elm, Maple, Ash, and other hardwood trees, which offer abundant shade and foliage".[4]

GeNA's role as steward of street trees

When GeNA was re-established in 2016, we held a community meeting to determine neighbourhood priorities, which was attended by 60+ Glenelm residents. High on that list of priorities was the preservation of our mature elm canopy.
Given this mandate, over the past several years, GeNA volunteers have:

- Shared factual information about the threats to elms via our newsletter;

- Hosted presentations from two noted local tree experts - Dr Richard Westwood of the University of Winnipeg and Martha Barwinsky of the City of Winnipeg to educate our neighbourhood about the state of our city's urban forest. The latter was held in fall of 2018 and attended by 45 people;

- Formed a Public Trees Sub-committee to explore ways to protect and restore our neighbourhood's trees

[4] 1902 Newspaper Clippings via Jim Smith & John King, North East Winnipeg Historical Society: https://docs.wixstatic.com/ugd/051154_3ab7738e37ca48bbb13b11adcdab9d0f.pdf

- Once our boulevard reforestation project is underway, we will explore the idea of bringing the Winnipeg Forest Watch program to Glenelm. The newly-emerged threat of Emerald Ash Borer means we must continue to be vigilant, and the Forest Watch program gives ordinary Winnipeggers an opportunity to play an active role in protecting the urban canopy. Glenelm has approximately 170 public ash trees, which will need close monitoring.

The Benefits of trees

Much research has been done on the benefits of trees in general, and street trees in particular; they provide significant economic, health, and environmental benefits to a city and its residents. Here are a selected few; there are many more.

Increased property values

"Homes landscaped with trees sell more quickly and are worth 5% to 15% more than homes without trees. Where the entire street is tree-lined, homes may be worth 25% more."[5]

"Realtor based estimates of street tree versus non-street tree comparable streets relate a $15-25,000 increase in home or business value. This often adds to the tax base and operations budget of a city allowing for added street maintenance."[6]

Mitigate effects of climate change
Trees act as a CO2 sink and reduce energy use[7]:

"Trees sequester and store CO2, decreasing the concentration of CO2 in the atmosphere"

Save homeowners' heating and cooling costs
"Neighborhoods with well-shaded streets can be up to 6–10° F cooler than neighborhoods without street trees, reducing the heat-island effect and reducing energy needs." [8]

"Tree windbreaks can reduce residential heating costs 10-15%; while shading and evaporative cooling from trees can cut residential air-conditioning costs 20-50%."[9]

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[5] The Benefits of Trees (Canopy.org): http://canopy.org/tree-info/benefits-of-trees/
[6] Urban Street Trees: 22 Benefits Specific Applications: http://www.walkable.org/download/22_benefits.pdf
[7] The Benefits of Trees (Canopy.org): https://canopy.org/tree-info/benefits-of-trees/urban-trees-and-climate-change/
[8] How trees fight climate change in your community (Arbor Day Foundation): https://www.arborday.org/trees/climatechange/fightcommunity.cfm
[9] The Benefits of Trees (Canopy.org): http://canopy.org/tree-info/benefits-of-trees/

Improved health of city residents
Trees are linked to "Reduced blood pressure, improved overall emotional and psychological health ... trees have a calming and healing effect on ADHD adults and teens."[10]

Increased traffic safety
"Urban street trees create vertical walls framing streets, providing a defined edge, helping motorists guide their movement and assess their speed (leading to overall speed reductions)"[11]

Absorption of storm water
"Trees absorb the first 30% of most precipitation through their leaf system, allowing evaporation back into the atmosphere."[12]

C. City of Winnipeg staff involvement to date

City Forester Martha Barwinsky of Urban Forestry Branch – Public Works Department has informed us of the Land Dedication Reserve Application and Agreement for Contractors to Perform Aboricultural Services processes used by Friends of Peanut Park in the River Heights ward. She has also designated a contact (Chris Lepa) in her branch to review and approve tree locations.

Councillor Jason Schreyer, Elmwood/East Kildonan has reviewed and approved our proposal and will designate the required funds from his ward if approved at the Community Services Committee (with required waiver for boulevard tree use approved by EPC).

D. The Scope of Work

The City of Winnipeg urban forestry department and GlenElm Neighbourhood Association will select the locations and species for the planting of 98 boulevard trees (15 gallon size) in the Glenelm neighbourhood by a city-approved arboriculturist contractor in the spring of 2019. The trees will be maintained and watered in 2019 and 2020. *In lieu of up to 10% of the budget – may apply insecticide to preserve select high value boulevard trees instead of planting new ones – if advisable by contractor & Urban Forestry.*

The Glenelm area to be considered for planting are the streets within (and including) the area bordered by: the boulevards of Talbot Avenue west of Henderson Highway north to Harbison Avenue W. west of Henderson Highway, and Henderson Highway centre median west to Glenwood Crescent.

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[10] Urban Street Trees: 22 Benefits Specific Applications: http://www.walkable.org/download/22_benefits.pdf
[11] Urban Street Trees: 22 Benefits Specific Applications http://www.walkable.org/download/22_benefits.pdf
[12] Urban Street Trees: 22 Benefits Specific Applications http://www.walkable.org/download/22_benefits.pdf

Milestones

Up to 98 tree planting sites approved by Urban Forestry	April, 2019
Up to 98 tree species chosen with input from residents	May, 2019
Approval of Land Dedication Reserve Application	May, 2019
Approval of Arborist Services Application	May, 2019
Arborist contractor hired	May, 2019
Up to 98 tree sites prepared	May and June 2019
Up to 98 trees planted	June and July 2019
Up to 98 trees maintained and watered	June to Sept 2019
Trees maintained and watered	May to Sept 2020

E. Cost Estimates/Quotes

Budget for Glenelm Boulevard Tree Replacement Project 2019 – 2020

Budget item	**Cost**
Supply 15 gallon tree and install. Quantity 98 @ $315 per tree. *In lieu of up to 10% of the budget – may apply insecticide to preserve select high value boulevard trees instead of planting new ones – if advisable by contractor & Urban Forestry.*	$30,870
Maintain and water 98 trees for 2 years @ $200 per tree	$19,600
Preventative insecticide/fungicide treatment for select high value trees	
Subtotal	*$50,470*
GST	$ 2,524
Project total	**$52,994**

F. Project Schedule

Task	**2019**							**2020**				
	A	**M**	**J**	**J**	**A**	**S**	**O**	**M**	**J**	**J**	**A**	**S**
Land Dedication Reserve (LDR) Application & Arborist Approval Processes												
GeNA: Submit LDR app to C Lepa of Urban Forestry branch												
City: Submit LDR app to H Fabbri at Planning, Property & Development department												

2019	A	M	J	J	A	S	O	M	J	J	A	S
City: Put forward app & request for boulevard tree waiver to use LDR for boulevard trees at the E Kildonan Transcona Community Committee meeting (April 16 or May 14)												
City: Put forward waiver request to Executive Policy Committee (April 30 or May 7)												
City: Put forward to City Council for approval (May 16)												
City: Notify C Lepa about EPC and Community Committee decisions regarding application and waiver												
GeNA: Choose a tree contractor after reviewing quotes (on advice of C Lepa)												
GeNA: Submit Agreement for Contractors to Perform Aboricultural Services to C Lepa												
Planning & Preparation for Tree Planting												
GeNA: Create a listing by address of proposed boulevard tree planting spots and submit to C Lepa												
City: Complete review of proposed boulevard tree locations, revise, & advise on tree species												
GeNA: Start neighbourhood communication strategy												
GeNA: Complete a survey of effected homeowners regarding tree preferences												
GeNA: Submit tree locations and preferred tree species to the arborist contractor												
Arborist: Create a detailed schedule of tree site preparation, planting and watering												
Arborist: Acquire trees from the nursery												
Arborist: Submit request for water, sewer and gas lines to be marked at planting locations												
MB Hydro: Utility lines marked												
Tree Planting, Maintenance, Monitoring 2019												
Arborist: Prepare tree sites, planting, staking and initial watering of trees												
GeNA: Inspect newly planted tree sites												
Arborist: Water and maintain trees												
GeNA: Monitor maintenance and watering of trees												
GeNA: Write a newsletter article about the tree project's progress												
GeNA: Submit contractor invoice to H Fabbri (PPD department); Make payment to contractor from GeNA treasurer												
City: Submit funds to GeNA for payment to contractor												

2020	A	M	J	J	A	S	O	M	J	J	A	S
Tree Maintenance, Monitoring 2020												
Arborist: Water and maintain trees												
GeNA: Monitor the maintenance and watering of trees												
GeNA: Submit contractor invoice to H Fabbri (PPD department); Make payment to contractor from GeNA treasurer												
City: Submit funds to GeNA for payment to contractor												
GeNA: Write a newsletter article about the tree project's progress												

G. Boulevard Tree Project Committee of GeNA

GeNA's tree committee, which has prepared this proposal, includes Mellanie Lawrenz, Lisa Forbes and Emma Durand-Wood. The total volunteer requirements of this project will depend on the final details, but we propose the following key roles, with additional volunteers recruited as needed:

Lisa Forbes: Administrative lead. Lisa will be the key contact with the Urban Forestry Department and private arborists, will handle invoices and agreements on behalf of GeNA with the support of the committee, keep a master list of participating homeowners, and generally keep tabs on the project as a whole.

Mellanie Lawrenz: Homeowner liaison. Mellanie will be the primary in-person and email contact for effected homeowners wishing to participate in the Glenelm Boulevard Trees Project.

Emma Durand-Wood: Communications lead. Emma will compose and send out communications via the GeNA mailing list to inform residents of the project and invite them to participate; if any print materials are needed she will create those and coordinate delivery.

Proposal

Alliance Tree Care Inc.
Box 3 GRP 582 RR 5 150 Transport Rd
Winnipeg, MB R2C2Z2
204-777-8733

Forbes 2019326074

Tuesday, March 26, 2019

Glenelm Neighbourhood Association
Lisa Forbes

Salesperson: Simon Bickle-Tapper

Worksite:

#	Item	Description	Qty	Cost
1	Trees	**Planting (C)** Supply and install of one of the following tree quantity options: 68 - 15 gallon potted treesa mix of maple, linden, elm, russian olive, and smaller ornamental trees where appropriate. Other species and exact quantity of each can be provided upon approval of work after each site has been assessed. - $325/ tree $22,100 plus gst 98 - 15 gallon potted treesa mix of maple, linden, elm, russian olive, and smaller ornamental trees where appropriate. Other species and exact quantity of each can be provided upon approval of work after each site has been assessed. - $315/ tree $30,870 plus gst Includes mulch, tree gaurd for base of trunk and staking if required. Note previously I mentioned stump grinding services. This quite assumes that the trees are to be located where no stumps are present. If stump grinding is required there would be potential surcharges.	98	**$30,870.00**
2	Trees	**1 year warranty (C)** 1 year, full replacement warranty on tree / shrub installation. Includes watering, pruning and fertilizing, as necessary, for one year from time of installation. Does not cover decline or death due to mechanical, chemical or biological damage caused another party outside the employ or contract of Alliance Tree Care. Cost for 2019 - 68 trees $6,800 plus gst 98 trees $9,800 plus gst Cost for 2020 68 trees $6,800 plus gst 98 trees $9,800 plus gst	196	**$19,600.00**

Proposal

Alliance Tree Care Inc.
Box 3 GRP 582 RR 5 150 Transport Rd
Winnipeg, MB R2C2Z2
204-777-8733

Subtotal:	$50,470.00
Tax:	$2,523.50
Total:	**$52,993.50**

Signature _____ Date _____

Green Drop Trees
#4 – 20 Second St,
West St Paul, MB
R2P OG5

March 26, 2019
Lisa Forbes
Trees Committee
Glen Elm Neighborhood Association

Re: Tree planting: Glen Elm neighborhood

Hi Lisa,

We are very interested in the opportunity to continue to work with The Glenelm Neighborhood association's Tree Committee. We believe that our company has the experience and skills required to meet the specifications of this project.

Please review the summary of our quotation.

Spring /Fall installation of trees

- Installation of 15-gallon container trees in 2019. We would recommend planting in Spring or fall. Planting is subject to approval by the City of Winnipeg forestry branch for species, size and location

Tree installation includes:

- Mycorrhizal soil inoculates, mulching, staking (with 2 wooden stakes)
- 4' wire mesh surrounding each tree. (this is a necessity for trees this size in public locations)
- Notification of underground utilities

Tree maintenance includes:
**Recommended for 2 years

- Watering for approximately 10 cycles or as required (per year) April 1 to October 31
- Pruning, insect and disease control as required
- Mulching as required
- Removal of stakes, tree guards after 2 years, as required

I. COST

Description	Approx. Quantity.	Price Per	Total
Supply and Installation per tree* 15 Gallon container	98	$295	$28,910
2 years maintenance	98	$200	$19,600
		Subtotal	$48,510
		Plus GST	$2,910
Grand Total			**$51,820**

*Includes Tree Replacement Warranty. Any trees planted that die will be replaced at no additional labor, supply, tree installation or maintenance cost.
**As no species is selected at this time cost may be subject to change 5-10% depending on species.

- Trees are planted in accordance with ANSI A-300 Planting standards.
- All treatments carried out by licensed and insured Manitoba applicator.
- Copies of Insurance, Licenses, MSDS or references available upon request
- Quote is subject to minimum 10 tree installation

We look forward to discussing the details of this project with you further. Please contact us with any questions your may have.

Sincerely,

Matt Vinet
ISA Certified Arborist
Green Drop Tree Care