



Date: February 22, 2021
To: Mayor Kudron and the Board of Trustees

From: Kimberly White, Town Planner
Re: Colorado Tree Coalition 2021 Tree Grant

Background

Park Avenue Streetscape is underway and the planting plan was not included in the final contract with NV5. Planner White received a notification for a grant opportunity to provide the town with a small number of trees to help replenish the urban tree canopy that was devastated by the bark beetle. As a member of Tree City USA since 1990, Grand Lake should have a focus on rejuvenating the urban tree canopy in our town. The Colorado Tree Coalition awards a \$1500 tree grant, with a \$1500 match, annually to multiple municipalities around Colorado. Planner White worked with the local non-profit Society for Wilderness Stewardship (SWS) and Katie Hearsom with the Community Center to collect the information and submit the successful grant application.

Tree species for this project were chosen to be native to this forest composition, and that are listed in Chapter 13 (Urban Forestry Policy) of the Town of Grand Lake Municipal Code. Individual tree locations were chosen for existing defensible space from homes and buildings, site triangles to corners, encroachment upon snow storage areas, relation to existing infrastructure and landscape, light exposure, and viewshed for residents and pedestrians.

Staff will be working with SWS on the requirements listed in the grant, such as the educational component, gathering and directing volunteers, events, and an online tree inventory for visitors. SWS has generously offered to purchase safety materials and organize the volunteers, and plan events with staff guidance.

P.O. BOX 99, GRAND LAKE, COLORADO 80447-0099
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E-MAIL: town@townofgrandlake.com



E88

Grant Number 21- (For Internal Use Only)

2021 COLORADO TREE COALITION GRANT APPLICATION

(Please input information in text boxes throughout application by clicking in the shaded text box)

APPLICANT Town of Grand Lake

PERSON RESPONSIBLE FOR PROJECT Kim White, Town Planner

ADDRESS PO Box 99

CITY Grand Lake , COLORADO ZIP CODE 80447

PHONE: (970) 627-3435 FAX: (970) 627-9290 EMAIL: planner@townofgrandlake.com

Summary Information

A. Project Name West Park Avenue Canopy Project

B. Project Tier Tree Planting (Choose one from: Tree Planting; Management/Maintenance; Media; **Ash Tree Replacement – NEW 2020**)
The Review Team has the option to change the selected project tier.

C. Project Location/Community Population (5 points added to application if population less than 8,000) 504

D. Number of volunteers and citizens expected to be involved 22

E. Total Project Cash Cost \$ 3,000 Grant Request \$ 1,500
(does not include in-kind services)

F. Applicant Cash Contribution 1,500
*Applicant must match at least the grant request amount with non-federal CASH. **Maximum grant is \$1,500. Minimum is \$500.***

G. Estimated Completion Date of Project September 1, 2021

H. Are you or your organization a CTC Member? Yes

Kimberly G. White Town Planner 12/11/20
Applicant Electronic Signature (simply type in name) Position Date

By electronically signing this application, I acknowledge that I have read and understand the guidelines of this application and that I am an authorized representative of the applying organization.

APPLICATION DEADLINE FRIDAY, DECEMBER 11, 2020. RETURN VIA EMAIL TO:
vince.urbina@colostate.edu

Application Guidelines (Before submitting application go through this checklist to make sure you meet requirements)

- Please note....if your organization or community received a CTC grant in 2020 you are not eligible to apply for funding in 2021. You will have to wait until the 2021 program to apply again.**
- Indicate the tier your grant request falls into (Tree Planting; Management/Maintenance; Media, **Ash Tree Replacement – New 2020**).
- Application must be emailed to vince.urbina@colostate.edu **December 11, 2020**. Applications received after this time will not be considered.
- Once received and entered into the grant submittal spreadsheet the applications will be emailed to 3-5 grant reviewers around the State. No paper copies of the application are required with the electronic submission format.
- A complete application must be submitted. Please make sure your application meets all the required components.
- Support materials (planting plans, sample documents, past projects, etc.) should be submitted electronically as well. Planting plans require the species to be listed and should include adequate species diversity recommendations such as found in the [Colorado Ash Tree Replacement Selection Tool \(xlsx file\)](#). Ash (*Fraxinus*) is discouraged from being used with the presence of emerald ash borer in Colorado. **Ash listed as a species being planted may disqualify the application.**
- Projects on private property are acceptable provided there is proof of public benefit and access (i.e. neighborhood association).
- Planting or pruning projects must be compatible with local ordinances and requirements, or must follow the American National Standards Institute's (ANSI) standards for planting and pruning, or comply with the American Association of Nurserymen's standards for planting stock.
- A 100% non-federal, cash match is required.** The applicant must come up with at least as much money as they are requesting. In-kind personnel and volunteer services are not considered qualifying expenses.
- Qualifying expenses must be **tree related only**. *Do not include expenses related to turf care, shrubs, flowers, trail construction, recreational facilities, food, merchandise, and similar items.*
- Maximum grant request/award is \$1,500.** Minimum is \$500.
- If trees are planted, a 3-year maintenance and care plan is required to be submitted electronically with application.
- Documentation and close-out grant materials must be submitted **by September 30, 2021**. Documentation can be in the form of **photos**, publications, video tapes, news releases, etc. Photos are encouraged and may be used on the CTC website, social media sites and the Annual Report. Letters of appreciation are also helpful for CTC's fundraising efforts.
- Projects must be completed by September 30, 2021.**
- CTC membership is encouraged.**

Selection Criteria

Eligible projects will be rated by the following criteria. Applications will be evaluated based on a base 85-point system with additional points available based on community population, Tree City USA status, Emerald Ash Borer related project and/or tree inventory project uploadable to www.cotreeview.com. The maximum possible points for any question are shown in parentheses. Please use allotted space by clicking in text box-(Note each text box has a maximum number of characters allowed, please adjust your response to this maximum)

1. Organization Description (0 points)

Please describe your organization or community.

The town of Grand Lake is located in north-central Colorado near the West entrance of Rocky Mountain National Park. At over 8,000 feet above sea level, Grand Lake is in a subalpine climate system. The town's ecology includes the headwaters to the Colorado River, the mouth of the Kawuneeche Valley and Grand Lake, the largest natural lake in the state. Grand Lake has been settled for hundreds of years, first by the Ute Tribe, and later by homesteaders. It is now home to about 500 full-time residents (less than 300 households) with the population swelling to the thousands in the summer as visitors flock to the area for the scenery, historic charm and outdoor recreation.

2. Characteristics and Need for the Project (20 points)

Describe the project. What is the purpose and desired outcome of the project? The purpose of CTC grants is to promote community forestry: proper tree selection, planting location, planting and maintenance practices:

Until relatively recently, Grand Lake was a heavily treed area. It became a Tree City USA Community in 1990, celebrating its 30th anniversary of that status this year. In the last few decades, due to bark beetles and urban expansion, the urban tree canopy has dwindled significantly, resulting in limited tree canopy access in Grand Lake.

Our goal for Grand Lake is to re-establish its urban tree canopy, by: mapping existing trees, creating and planting trees on streets and in parks, and connecting the urban canopy to the forestlands around the town. Re-establishing the tree canopy in Grand Lake will bring the microclimate back into a normal range, increase climate and disturbance resilience, help manage water cycling, create habitat corridors for wildlife traveling in between Grand Lake and Rocky Mountain National Park, improve public health and the local economy and build community pride and neighborhood beauty and walkability.

We will start off this overall effort in 2021 with the West Park Avenue Canopy project. The West Park Avenue project will have five outcomes: 19 trees will be planted, and a tree inventory will be completed and uploaded to cotreeview.com for all of Park Avenue, a Tree Board made up of both town staff and community members will be developed, 20 volunteers will be engaged and will spend 120 hours on the project, and an easily accessible tree walking tour will be created.

Park Avenue is a main thoroughfare in Grand Lake, located one block north of the town's main street, Grand Avenue. Park Avenue stretches the entire length of the downtown area, and comprises governmental buildings, residential areas, commercial entities, parking areas, and community meeting spaces, such as churches, parks and libraries. In 2019, the Town of Grand Lake sought proposals to renovate four blocks of Park Avenue (at the time a dirt street with no sidewalks or landscaping) with the main goal of creating a pedestrian walkway for safe circulation throughout town. The Park Avenue Streetscape project broke ground in 2020, and in the process of construction, cut out plans for tree planting due to cost. The west two blocks (Vine to Garfield) of the streetscape are due to be completed in the late spring or early summer of 2021. To ensure that trees are re-incorporated into the Park Avenue streetscape, we have created the West Park Avenue project.

The West Park Avenue Canopy project will plant 19 trees on both sides of the street on Town of Grand Lake property for two blocks – Vine Street to Ellsworth Street, and Ellsworth Street to Garfield Street. Although previously densely forested, the West Park Avenue tree canopy is currently very sparsely populated. The trees that do exist are on private property, and most are quaking aspen, with a mix of a few pines and spruces. A total of 27 trees (primarily aspen) were recently removed for the overall streetscape project. Grand Lake is within the Southern Rocky Mountain Steppe-Open Woodland-Coniferous Forest-Alpine Meadow Province. Within that, it is in the subalpine zone, who's forest

composition includes Engelmann Spruce (*Picea engelmannii*), subalpine fir (*Abies lasiocarpa*) forests, lodgepole pine (*Pinus contorta*), aspen (*Populus tremuloides*), and limber pine (*Pinus flexilis*). Given the higher moisture and amount of riparian area than other subalpine forests in the southern Rocky Mountains, Blue Spruce (*Picea pungens*) also exists in Grand Lake. In drier areas, such as south-facing slopes, Bristlecone pine (*Pinus aristata*) also exists. Tree species for this project were chosen to be native to this forest composition, and that can grow well in an exposed location with appropriate maintenance, and that are listed in Chapter 13 (Urban Forestry Policy) of the Town of Grand Lake Municipal Code. In addition, species were chosen to create a diverse, beautiful and inviting canopy. Individual tree locations were chosen for existing defensible space from homes and buildings, site triangles to corners, encroachment upon snow storage areas, relation to existing infrastructure and landscape, light exposure, and viewshed for residents and pedestrians. Planting and maintenance procedures are described below in section seven.

3. Educational Opportunities of the Project (15 points)

Describe the educational or interpretive opportunities presented by this project. Who is the anticipated audience?

Through the West Park Avenue Canopy project, we will be educating a variety of audiences with three different programs.

The first program is our Tree Education program, which will happen throughout the entirety of the project, and will be split into four phases: tree inventory, tree species and location selection, tree planting, and tree care. Our audience for the Tree Education program is the volunteers that will be included in this project, who are made up of local homeowners and stakeholders. Educating volunteers as to tree planting and care is integral to proliferating the Grand Lake canopy on private lands. Volunteers will be taught how to complete tree inventory entries in the cotreeview.com database during a volunteer event on Arbor Day, April 30, 2021. We will use personal devices (and have devices to loan if not all volunteers have personal devices), register all volunteers as users in the system, walk them through the inventory process, and then supervise small groups of volunteers as they practice while completing the tree inventory on Park Avenue. On our two volunteer planting days, we will teach volunteers about proper tool use and care, risk management, and tree planting specifications. We will also inform volunteers about the species being planted, and how species are chosen for location. At the end of each planting day, we will teach volunteers about tree care and supervise them in the initial watering and pruning of trees. At the close of the project, we will have 20 local residents and stakeholders that possess sound tree planting and care knowledge that they can utilize to plant and inventory trees on their own property.

The second program is the Walking Tour program. The completion of the West Park Avenue Canopy project will be heralded with a dedication ceremony, during which we will unveil a QR code that will lead town residents and visitors on a walking tour of the inventoried trees on Park Avenue. The walking tour will highlight important tree information such as tree species, native forest composition and town canopy history through a YouTube video and plaques placed at individual trees. The target audience for this program is school groups, residents and visitors to Grand Lake. As the tour will be self-directed, it provides easy access to anyone happening through Grand Lake and creates a large-scale ambient learning opportunity.

The third program is the Press Education program. As discussed in more detail below, both the Town of Grand Lake and the Society for Wilderness Stewardship (SWS), a local partner organization, will be continually releasing information about the West Park Avenue Canopy project in the form of press releases to traditional media outlets, website content and social media, which will include information about local ecology, forest composition, canopy history and the environmental, social, economic and public health impact of trees. Our audience for this program includes residents of the greater Grand

County region and all virtual Town and SWS stakeholders. We hope this program will essentially lead others by example and broadly elevate knowledge of the importance of trees.

4. Volunteer and Community Involvement in the Project (10 points)

List other agencies, corporations, homeowner associations, volunteers, businesses or groups who are participating in or donating to the project. Describe how they are assisting.

To complete the West Park Avenue Canopy project, we are partnering with the Society for Wilderness Stewardship. SWS is a 501(c)3 non-profit organization based in Grand Lake, that works nationally in concert with agencies and government entities to take care of wilderness areas and the towns and communities adjacent to wilderness areas. SWS will be engaging both volunteers and staff on the project, providing tools and supplies, and will be a partner from start to finish, in addition to staying actively involved beyond project completion with tree maintenance and the Tree Board.

SWS has already started building a volunteer and donor base for the West Park Avenue Canopy project. They are currently running a fundraising campaign, named “Reforest Grand Lake”, that is raising funds to support tree planting efforts in Grand Lake. The campaign began on December 1, 2020, and will continue until December 31. As of the writing of this grant, it has already garnered 17 donors and over \$1,500. A number of the donors have already signed up to volunteer at tree planting projects, and have even invited friends and relative from out of town to come and help plant trees in Grand Lake. These funds will be used to purchase supplies for the West Park Avenue project, and for future tree canopy projects in Grand Lake.

SWS will recruit, train and manage volunteers. Volunteers will be employed at three events for the project. The first event will be held on Arbor Day, April 30, 2021. The Arbor Day volunteer event will be dedicated to inventorying existing trees all along Park Avenue. Volunteers will be trained to use mobile devices to enter trees into cotreeview.com, and then will be split into small groups assigned to blocks of Park Avenue to inventory trees. Each small group of volunteers will be supervised by SWS staff or Town of Grand Lake staff. The second two volunteer events will be two tree planting days, to be held during the late spring or summer of 2021. Again, volunteers will be trained on both days to plant trees through video and on-site demonstration, and will be split up throughout the planting zone to engage in planting while being supervised by SWS or Town of Grand Lake staff.

Upon project completion, we will be standing up a Grand Lake Tree Board. We intend to engage many of these volunteers on the Tree Board and in maintenance and care of the trees on West Park Avenue for the next three years. In all, the West Park Avenue Canopy project will be powered and stewarded by volunteers and residents.

5. Publicity and Public Relations for the Project (10 points)

How will the project be publicized and documented? How will the Colorado Tree Coalition be acknowledged?

The West Park Avenue Canopy project will be documented from start to finish with photos, videos, articles and press releases produced by Town and SWS staff. Specifically, public announcements will be published (in both print and digital formats) regarding the receipt of funding, volunteer recruitment and events, and project completion and dedication and dispersed to local and regional news media outlets. Digital content will be shared on the Town of Grand Lake and SWS social media accounts (with a combined total reach of just under 4,000 users), dedicated website pages and regular e-newsletters. We will also share information with and request promotional assistance with local tourism partners such as the Grand Lake Chamber of Commerce/Visitor’s Center (gograndlake.com) and the Grand County Tourism Board (visitgrandcounty.com).

The Town of Grand Lake maintains a good working relationship with the Sky-Hi News, the county's leading news media outlet, which produces print editions three times per week, in addition to a robust online platform and corresponding social media accounts. All project announcements will be sent to the editor for consideration of additional coverage, reporters will be invited to all dedication ceremonies and volunteer events, and all event dates and times will be submitted to their free event calendar listings.

The Colorado Tree Coalition will be acknowledged in all of the above, in addition to the organization's name and logo being prominently displayed on all signage. Signage will be positioned at all three volunteer events, and at the completion/dedication ceremony. All trees planted will be furnished with a plaque that will display their chosen name, species name, and recognition of the Colorado Tree Coalition.

6. Colorado Tree Coalition Involvement (5 points)

Briefly describe your involvement in a Colorado Tree Coalition chapter and/or the statewide organization. Are you or your organization a member of the Colorado Tree Coalition?

Both the Town of Grand Lake and the Society for Wilderness Stewardship recently became members of the Colorado Tree Coalition. The Town is a Business member, and SWS is a Patron. Both entities would welcome the opportunity to be more active on a chapter or statewide basis.

7. Design and Plan of the Project (10 points)

Attach a plan, 3-year maintenance specifications, planting specifications, plant lists, or sample educational products appropriate to your project. Is the application concise, clear, and complete? Has the project been thought through and well planned? Are project costs calculated correctly and understandable?

The West Park Avenue Canopy project has been designed by the Grand Lake Town Planner, who holds a masters degree in Landscape Architecture and years of experience. The project layout can be seen on the attached streetscape with trees, showing planting locations and species for all trees being planted in the two block radius on West Park Avenue. The project will be administered jointly by Town of Grand Lake staff (Town Planner, Marketing Manager and Maintenance Director) and SWS staff (Executive Director and Program Director). Town of Grand Lake staff will manage all tree and mulch purchase and shipment, and scheduling of streetscape contractors and planting windows. SWS staff will manage all volunteer recruitment, training and management. Together, Town of Grand Lake and SWS staff will administer tree inventory, tree planting, tree maintenance, events (including Arbor Day, planting days, and the dedication ceremony), and publicity.

The project will take place between April 30 and September 15, 2021:

April 30, 2021 – Arbor Day ceremony, tree inventory completed for Park Avenue

Summer 2021 – Tree planting day 1, date to be determined following completion of streetscape

Summer 2021 – Tree planting day 2, date to be determined following completion of streetscape

September 2021 – Dedication ceremony, date to be determined following completion of plantings, and to coincide with active times for community engagement.

September 30, 2021 – All final reports, documents, pictures and videos submitted to the Colorado Tree Coalition

Throughout – Documentation, content creation and media coverage

Trees will be planted by knowledgeable and trained staff and volunteers, following the Colorado Tree Coalition's tree planting instructions: a hole 2-3 times the size of the root ball will be dug, the tree will be placed in the hole so that the top of the root flare is 1-3" higher than the original grade, and mulch will be added in a collar over the root ball while keeping it away from the stem. The trees will be pruned and staked if needed. Tree sizes and species for planting can be found on the attached planting list. Tools utilized will primarily be shovels, or in the instance of hard ground, pick mattocks.

Trees will be maintained jointly by Town of Grand Lake staff, SWS staff, and volunteers. Tree maintenance will occur for the next three years, after which the Grand Lake Tree Board will determine what maintenance is needed going forward. Maintenance will follow the attached plan titled “Maintenance Outline for Newly Planted Trees”. Maintenance will include daily and/or weekly watering (depending on temperature and precipitation), mulching to maintain a wide collar of 3-4 inches in height above the roots, staking when needed, cleaning of the root collar, regular tree health inspections, and pruning as needed.

At the completion of the West Park Avenue Canopy project, 19 new trees will be planted and maintained into healthy adult trees.

8. Budget (5 points)

Is your requested funding level matched with 100% non-federal cash funds? Are qualifying expenses all tree related? Are project costs calculated correctly?

The budget for the West Park Avenue is made up of two sections – the cash cost of the project, funded half by Colorado Tree Coalition grant request, and half by private funds provided by the Town of Grand Lake; and the in-kind cost of the project.

The cash portion of the budget covers tree and mulch purchase, with specific costs for all 19 trees and mulch listed in the budget. The cash portion costs a total of \$3,000. We are asking for \$1,500 in grant funding for this portion of the project. The other half of the cash costs will be provided by the Town of Grand Lake.

The in-kind portion of the project is split into two categories – labor and supplies. Labor will be provided by volunteers, SWS staff, and town staff. Labor covers everything from project planning, design and purchasing, to volunteer recruitment, training and management. Labor costs of on-going management, to be incurred after September 30, 2021, are not included. Volunteers will provide 120 hours of service over three events. Valued at \$25.96/hour, the total cost of their labor is \$3,115.20. Both the Executive Director and the Program Director from SWS will provide 80 hours of work on the project, for a total value of \$6,311. Three town staff – the Town Planner, Marketing Manager, and Facilities Director – will allocate 80 hours of their time to the West Park Avenue Canopy project, for a total of \$7,681. The grand total for in-kind labor dedicated to the project is \$17,107.20.

Supplies will be provided by SWS. Supplies will support volunteers, project implementation, marketing and education. SWS will purchase hard hats, safety glasses, gloves, shovels and pick mattocks for all volunteers. The total in-kind value of the personal protective equipment and tools is \$1,208.04. In addition, they will provide refreshments on all three volunteer days and gifts of appreciation to volunteers for a total of \$800. SWS will also purchase all informational tree plaques for all 19 trees, and event signage for all volunteer events, for a total of \$832. Lastly, SWS will purchase watering equipment for three years at the cost of \$300 per year and a total cost of \$900. In all, the in-kind cost of the project is \$3,740.04.

Altogether, the in-kind portion of the project is valued at \$20,847.24. Combined with the cash cost of \$3,000, the total project value is \$23,847.24.

9. Community Commitment for the Project (10 points)

What will this project do to establish long-term commitment to trees in your community (i.e. the creation of a tree board, establishment of regular funding, etc.)

As a Tree City USA Community, the Town of Grand Lake currently adheres to standards established by the Arbor Day Foundation including a qualifying public tree care ordinance; annual investment in the proper planning, care and maintenance of public trees; and an annual Arbor Day proclamation and ceremony. We anticipate two ways in which this project will exponentially enhance community commitment to the West Park Avenue Canopy project and to the Grand Lake canopy in perpetuity.

Research has shown that naming something creates an affinity with it, and attaches intelligence, belonging and familiarity, which engender empathy. Behaviors that arise from naming include responsibility and care. We want to inspire broad community connectivity to the West Park Avenue treescape, as well as the entirety of the Grand Lake canopy. To do this, we will hold a naming contest within the community to name each tree. The contest will be widely publicized and highlighted at a variety of local businesses and events. A name for each tree will be selected from names suggested in this contest, and tree names will be displayed on the plaques located at each tree. These tree names will serve to engage the community in tree ownership and care both during the project and ongoing.

The second way we will generate community commitment to this tree planting project and the Grand Lake canopy overall is to hold a completion and dedication ceremony at the end of the West Park Avenue Canopy project. This event will be a celebration of the project in its entirety, and will also lay the groundwork for the future of trees in Grand Lake. During the event, we will unveil the QR code Walking Tour, a program we hope will continue to create commitment to trees into the future. We will also use this event to officially stand up a new Grand Lake Tree Board, made up of Town of Grand Lake staff, SWS staff, and community members and volunteers. The Tree Board will be tasked with continuing to find funding for tree projects, and creating a Town of Grand Lake Canopy plan to guide all future tree inventory, planting, and care. Throughout the dedication event, we will recognize volunteers and staff that supported the West Park Avenue Canopy project, which we hope will inspire others to get involved in future canopy activities.

We envision a rich future for a tree canopy in Grand Lake. The West Park Avenue Canopy project will be just the beginning, helping us on our way to our overarching goal, which is to re-establish the tree canopy within the Town of Grand Lake, and connect it to itself and the forests that surround it. The Colorado Tree Coalition's support for this project is of incredible importance, it would not move forward without it. With it, not only will we succeed in planting 19 trees, engaging 20 volunteers and the community at large, adding an entire town street to the cotreeview.com database, creating a tree walking tour, broadly educating stakeholders on tree planting and care, and establishing a Tree Board, we will lay the foundation for a healthy tree community for years to come.

Attach appropriate materials as needed. If a brochure, booklet, video, etc. is planned, attach an outline or mockup of the project. Have you included the species list and 3-year tree care plan for planting projects?

Project Costs

Please itemize **cash only** expenses. **Do not** include in-kind costs or costs for existing (*not hired for this project*) personnel in the first section. Be as detailed as possible.

I.

<u>Item</u>	<u>Cost</u>
1 x Limber Pine (<i>Pinus flexilis</i>)	250.00
1 x Bristlecone Pine (<i>Pinus aristate</i>)	250.00
1 x Engelmann Spruce (<i>Picea engelmannii</i>)	249.99
2 x Ponderosa Pine (<i>Pinus ponderosa</i>)	248.90

3 x Quaking Aspen (<i>Populus tremuloides</i>)	230.85
3 x Tartara Maple (<i>Acer tartaricum</i>)	449.97
2 x Colorado White Fir (<i>Abies concolor</i>)	400.00
2 x Colorado Blue Spruce (<i>Picea pungens</i>)	251.90
3 x Swedish Aspen (<i>Populus tremula 'erecta'</i>)	200.97
1 x Subalpine Fir (<i>Abies lasiocarpa</i>)	249.99
Mulch	217.43
Total Project Cash Cost (should be the same as page 1)	3,000.00

II.

A. Your non-federal cash match*	\$ 1,500
B. Your grant request (should be the same as page 1)	\$ 1,500
C. Total project cash cost (Lines A + B = C) (this should be the same as Total Project Cash Cost above)	\$ 3,000

III.

D. In-kind labor (includes volunteer and personnel time; estimated volunteer hours at \$25.96/hour)	\$ 17,107.20
E. Other in-kind services (donated equipment, supplies)	\$ 3,740.04
F. Total Project Value (Lines C + D + E) (this is different than Total Project Cash Cost)	\$ 23,847.24

IV.

***Source of Funds:** Please list the source and amount of non-federal cash.

All non-federal cash (\$1,500) is being provided by the Town of Grand Lake.



December 11, 2020

Colorado Tree Coalition Grant Review Committee:

Please accept this letter as a record of our support for the Town of Grand Lake's West Park Avenue Canopy Project. The Society for Wilderness Stewardship is a 510(c)3 non-profit organization based in Grand Lake, Colorado. We work nationally, partnering with land management agencies, non-governmental organizations, and municipalities to steward wilderness areas and the communities adjacent to them.

The Town of Grand Lake is a unique area, and its ecological health is critical to the health of public lands and wilderness that surrounds it on all sides. Grand Lake sits at the nexus of the Never Summer Wilderness area and the Indian Peaks Wilderness area, and is part of the wildlife habitat corridors, ecological processes, and plant community that sustain those areas. As urban growth, bark beetle infestations, and fires, have occurred, we have watched the urban forest health in Grand Lake decline. This has a heavy impact on local and regional ecology.

We are very excited to be a part of the West Park Avenue Canopy Project, and Town of Grand Lake urban tree canopy projects moving forward. We have already amassed a group of local volunteers and supporters that are eager to see this project come to fruition, and staff future planting and maintenance projects. With your support, we will re-capture the ecological health that Grand Lake once knew, and create a blueprint for other wilderness gateway communities to follow.

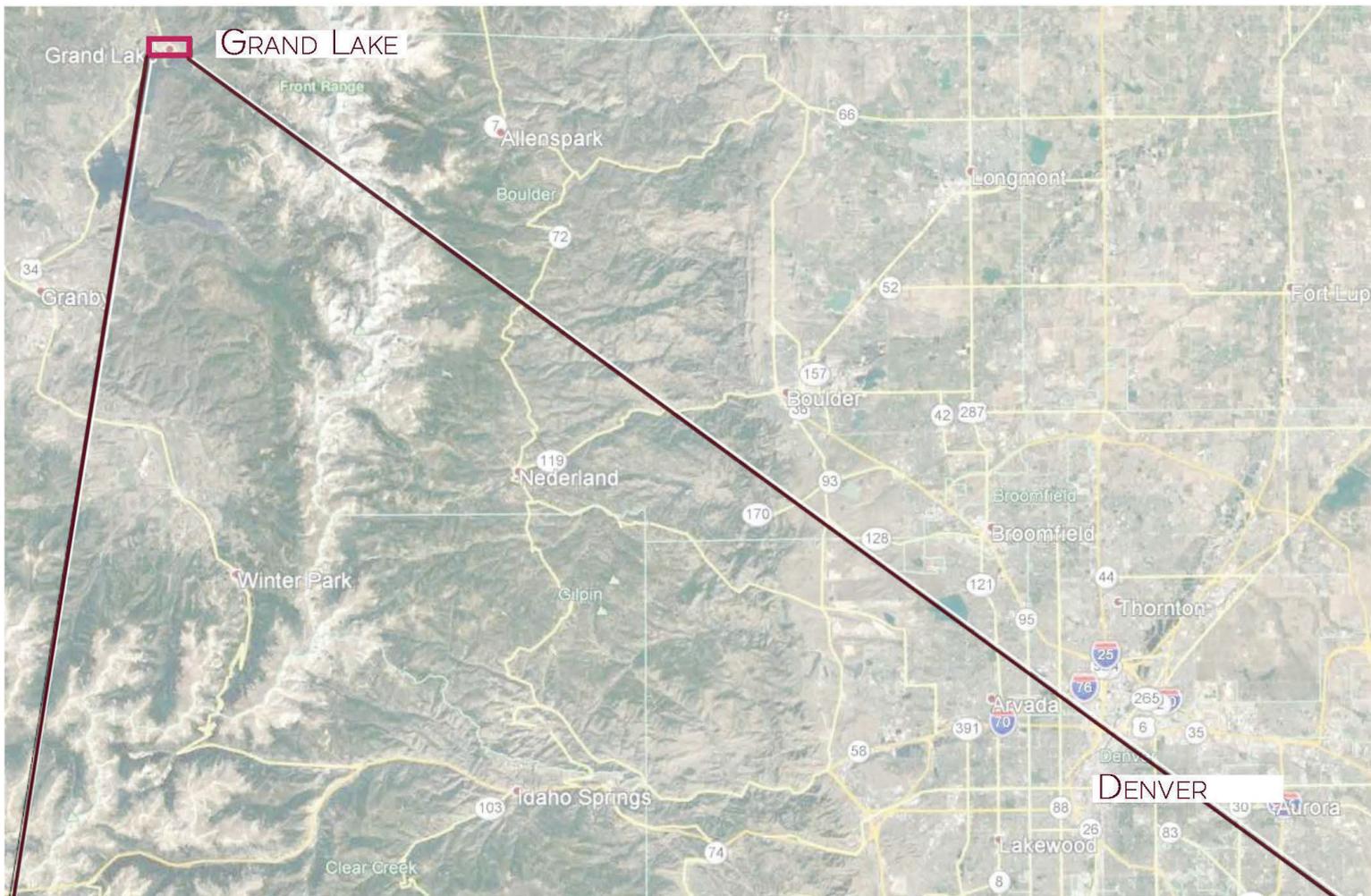
Best,

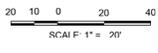
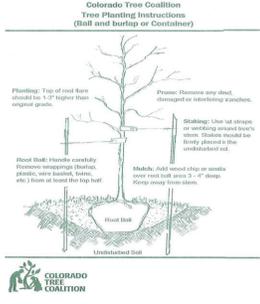
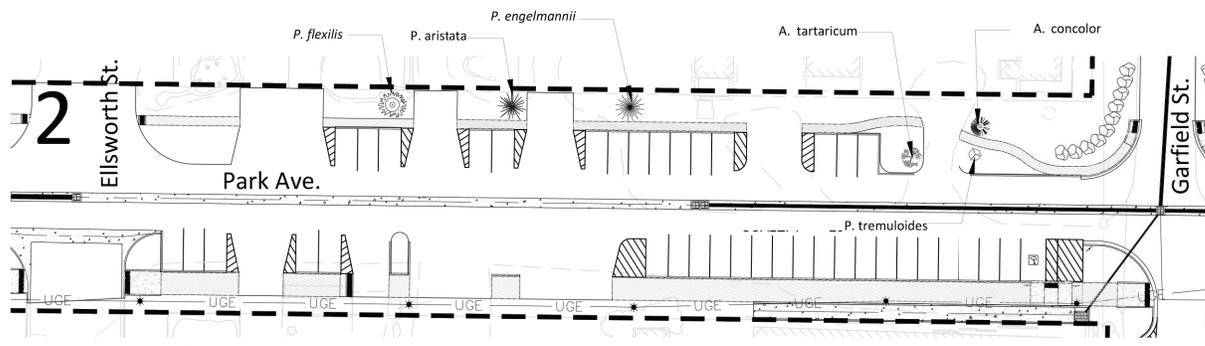
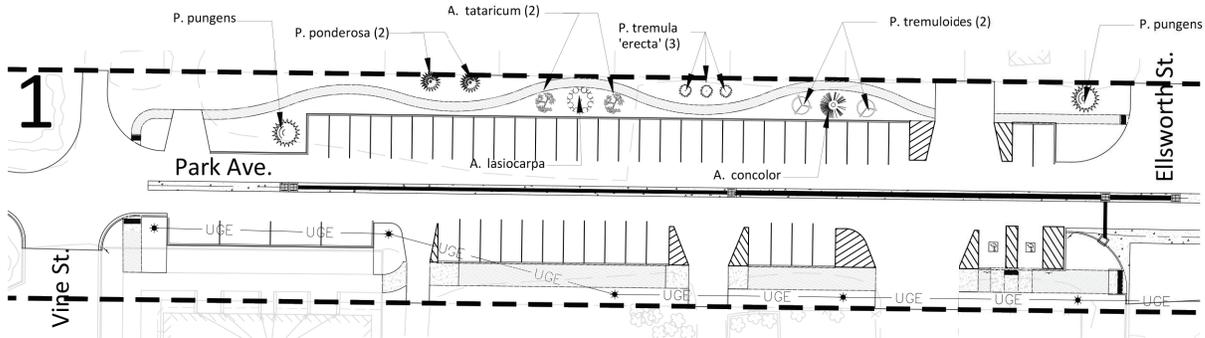
A handwritten signature in black ink, appearing to read "H MacSllarrow", is positioned below the salutation.

Heather MacSllarrow
Executive Director

PO Box 1974, Grand Lake, CO, 80447
www.wildernessstewardship.org
(970) 761-9453

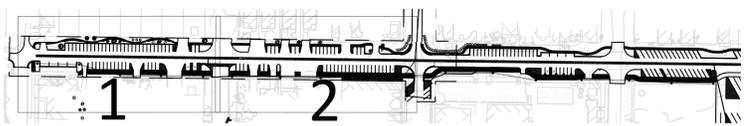
VICINITY MAP





Planting Schedule

Botanical name	Common name	Qty	\$ per tree	Total Cost	Height	Width
● <i>Pinus flexilis</i>	Limber Pine	1	\$250.00	\$250.00	30	15
● <i>Pinus aristata</i>	Bristlecone Pine	1	\$250.00	\$250.00	8	8
● <i>Picea engelmannii</i>	Engelmann Spruce	1	\$249.99	\$249.99	40	10
● <i>Pinus Ponderosa</i>	Ponderosa Pine	2	\$124.45	\$248.90	60	25
● <i>Acer tataricum</i>	Tartara Maple 'Hot wings'	3	\$149.99	\$449.97	15	15
● <i>Populus tremuloides</i>	Quaking Aspen	3	\$76.95	\$230.85	40	20
● <i>Abies concolor</i>	Colorado White Fir	2	\$200.00	\$400.00	30	15
● <i>Picea pungens</i>	Colorado Blue Spruce	2	\$125.95	\$251.90	30	10
● <i>Populus tremula 'erecta'</i>	Swedish Aspen	3	\$66.99	\$200.97	40	8
● <i>Abies lasiocarpa</i>	Subalpine Fir	1	\$249.99	\$249.99	100	20
				\$2,782.57		



Park Avenue- Key Map

Colorado Tree Coalition
Tree Planting Instructions
(Ball and burlap or Container)

E100

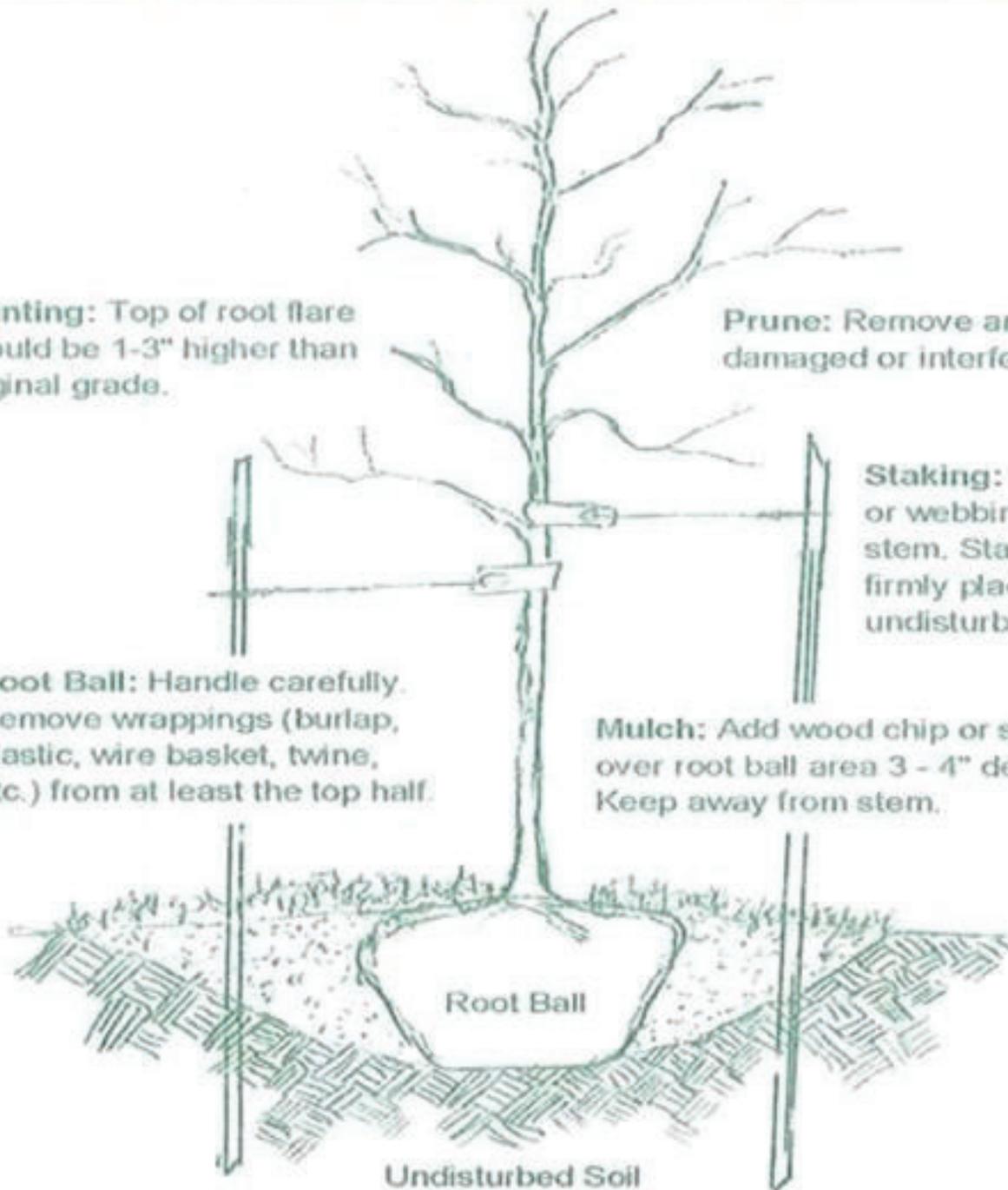
Planting: Top of root flare should be 1-3" higher than original grade.

Prune: Remove any dead, damaged or interfering branches.

Root Ball: Handle carefully. Remove wrappings (burlap, plastic, wire basket, twine, etc.) from at least the top half.

Staking: Use flat straps or webbing around tree's stem. Stakes should be firmly placed in the undisturbed soil.

Mulch: Add wood chip or similar over root ball area 3 - 4" deep. Keep away from stem.



**COLORADO
TREE
COALITION**

Maintenance Outline for Newly Planted Trees

Watering

- *Year 1 - 3:* It is most critical to provide adequate water during the annual growing season. Water weekly for the first three years, when the ground is thawed, unless it has rained 1 inch in a week.

Initially, a newly planted tree needs to be properly watered with an adequate amount to pack the soil, to remove root-drying air and to moisten the root ball. On adequately draining soils, 5 gallons of initial water should be enough. Fast draining soils may need more frequent watering than a slow draining soil.

<https://www.youtube.com/watch?v=a4hNIJxPxbg>

Mulching the Tree

- *Year 1 - 3:* Maintain the mulch level with no more than 4 inches of material over the roots (the wider the better) but not touching the tree.

Mulching a newly planted tree ensures that moisture is available to roots over time and reduces grass competition. A good mulch (organic materials like leaves, bark, needles and fine wood chips) should ring the tree base (over the critical root zone) but never touch the tree. No fertilizer is necessary when quality composted mulch is used. <https://www.youtube.com/watch?v=Le05ExdzSLA>

Staking:

- *Year 1 - 3:* Use tree stakes only when needed. Check all stakes and straps during spring and autumn for loose fit and alter to prevent trunk damage. All straps should be removed after the first or second year.

Not all newly planted trees need staking to remain standing straight. Stake only if the root ball is unstable or the tree trunk is bending. Use only loosely tied, wide straps and limit the number of straps to a minimum for support.

Cleaning the Root Collar

- *Year 1 - 3:* Proper planting and mulching will go a long way toward solving most root collar problems. The first several years of growth after planting is when tree collar problems develop, so keep the collar exposed by removing soil and mulch. Overfertilization can speed up the process and make the condition worse.

Roots that encircle the trunk at the root collar can cause tree health and safety problems. A tree's root collar is its transition zone between stem and root at the ground line. Proper planting depth can go a long way toward keeping the root collar clean and free of encircling roots. Remember that piling soil or mulch against the root collar encourages "strangler" roots.

Inspecting Tree Health

Checking a tree's health may not only be subjective for a novice but determining the health of a tree is complicated and should be done by an expert. Still, there are things you can do that will alert you to tree health problems.