

Cheyenne Area **STREET ENHANCEMENT BEST PRACTICES ANALYSIS**



1.16.2012

LOGAN SIMPSON DESIGN

Cheyenne
Metropolitan
Planning
Organization



RESOLUTION NO. 5479

Approved as to
form only:

P. White

Date: Feb. 6, 2013

**ENTITLED: "A RESOLUTION APPROVING THE CHEYENNE AREA
STREET ENHANCEMENT TOOLBOX"**

WHEREAS, the Governing Body of the City of Cheyenne, the Economic Development Organizations consisting of Cheyenne LEADS, Chamber of Commerce, and Visit Cheyenne, the City Urban Planning, the Cheyenne MPO, and numerous business owners and developers have recognized the importance of streetscape enhancements to the economic health of the community; and

WHEREAS, the MPO has produced a 2006 Comprehensive Plan entitled PlanCheyenne, and several corridor plans that contain recommended streetscape enhancements to beautify regional gateways, strengthen the attractiveness for current local and future commercial districts, and create pleasant, vibrant, and safe pedestrian environments; and

WHEREAS, completion of this plan required extensive cooperation and assistance from the City of Cheyenne Urban Planning, Engineering, Public Works, and Parks and Recreation Departments; and

WHEREAS, several city departments were concerned as to funding sources to construct and maintain these landscape and hardscape enhancements; and

WHEREAS, the Cheyenne MPO retained AECOM, a Planning consultant firm, on October 28, 2011 to produce the *Cheyenne Area Street Enhancement Toolbox*; and

WHEREAS, on August 1, 2012 the AECOM consultants responsible for the MPO Contract # 187413 joined Logan Simpson Design, Ft. Collins, CO and the contract was assigned from AECOM to Logan Simpson Design; and

WHEREAS, the City of Cheyenne Planning Commission held a Public Meeting on January 22, 2013, and accepted public comments, and recommended the approval of *Cheyenne Area Street Enhancement Toolbox* to the City Governing Body; and


WHEREAS, the Cheyenne MPO Citizen's Advisory and Technical Committee reviewed the Plan and recommended adoption; and

WHEREAS, the *Cheyenne Area Street Enhancement Toolbox* will be used with future transportation planning projects that might include the installation of street enhancement alternatives so that maintenance and cost concerns can be addressed and considered as part of the long range planning process.

**NOW, THEREFORE, BE IT RESOLVED BY THE GOVERNING BODY OF
THE CITY OF CHEYENNE, WYOMING:**

THAT, the *Cheyenne Area Street Enhancement Toolbox* dated January 8, 2013, prepared by Logan Simpson Design, is hereby approved for use in planning processes as specified herein.

PRESENTED, READ AND ADOPTED THIS 25th DAY OF February, 2013.


Richard L. Kaysen, Mayor
City of Cheyenne

(Seal)

ATTEST:



Carol Intlekofer, City Clerk

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ACKNOWLEDGEMENTS

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01

INTRODUCTION

BACKGROUND

In recent years, the business community and citizenry of Cheyenne have identified beautification projects as a high priority for the community. The City has responded by implementing several redevelopment plans, many of which involve street enhancements. Through these efforts, a number of issues have been identified, especially as they relate to estimating and funding long-term operation and maintenance (O&M) costs. Specific issues include the need to build consensus among City leaders responsible for departmental budgetary allocations; the need to build consensus among Public Works and Parks departments responsible for the O&M of corridor elements and infrastructure; and the need to provide an avenue to efficiently disseminate information about capital and long term costs to City staff and leaders.

PROJECT PURPOSE

This report describes the way in which five communities implement, manage and fund the capital and O&M of enhanced roadways. The purpose of this report is to assist the City of Cheyenne in establishing a roadway enhancement implementation process based on interdepartmental and interagency collaboration early in the design phase, considering the whole lifecycle of each roadway enhancement element. This approach will provide the City with the necessary information to substantiate long-term funding needs, as well as develop street standards uniquely suited for Cheyenne's climate and character.

PROCESS

The communities featured in this study include Bozeman, MT; Fort Collins, CO; and Lincoln, NE. Other communities researched and mentioned in this report include Longmont, CO, Laramie, WY and Rapid City, SD. Featured communities were selected based on characteristics similar to Cheyenne such as climate, size, population, and level of experience with roadway enhancements. City departments interviewed varied by each City's organizational structure and include Public Works, Public Services, Transportation, Finance, Parks, Recreation, Public Service, Operations, and Parks and Recreation. Departments surveyed were asked a range of questions concerning the funding and management of existing and future roadway enhancement initiatives. Questions were determined by the City of Cheyenne and WYDOT representatives responsible for the planning, design, operation and maintenance of streets.

REPORT STRUCTURE

Each community is presented in the same way, with a bulleted description of existing and future roadway enhancements, O&M practices, budgetary processes, funding mechanisms, and key findings. Key Findings summarize the important steps communities are taking to overcome budgetary shortfalls, create functional streetscape design suited for extreme environmental conditions, and develop a long-term management plan built on interdepartmental and interagency collaboration. Documents such as city/ county street standards, contract bid information, City ordinances, and Council budget applications are included for reference.

02

BOZEMAN, MONTANA

EXISTING AND PROPOSED ROADWAY ENHANCEMENTS

The following list highlights some of the enhancement projects recently completed or currently underway in the City of Bozeman, MT:

- Reconstruction of South 8th Avenue, a deteriorating city street that has not been repaved in 30 years. Improvements include:
 - Landscape enhancements (type TBD)
 - Bike lanes
 - New water pipes
 - Curb and gutter
 - Resurfacing
 - Sidewalks
- Single lane roundabout at the intersection of College and 11th Avenue. This is the City's first roundabout and was built in August, 2011 to alleviate traffic congestion. Improvements include:
 - Turf landscape with irrigation in center
 - Colored concrete band
 - Concrete medians
 - Sidewalk
 - Pedestrian crossings
 - Turf landscape buffer between sidewalk and street
- Rouse Avenue, an MDOT project that includes right-of-way acquisitions to widen the two lane state highway to four lanes between Main Street and Story Mill Road. Improvements include:
 - A central left turn lane
 - Sidewalks
 - Bike lanes
 - On-street parking



South 8th Avenue, courtesy of Bozeman Daily



Single Lane Roundabout, courtesy of the City of Bozeman



Rouse Avenue, courtesy of Bozeman Daily

STREET STANDARDS/ LESSONS LEARNED

- Roadway enhancements that feature medians are usually planted with turf and trees to reduce maintenance requirements for trash clean up, irrigation, plant establishment and trimming.
- Until recently, medians of less than eight feet wide were capped in concrete. This standard has changed to save on street sweeping costs. The City now strives to follow the same planting standards implemented for boulevards where 80% of the total surface area is planted. See Appendix 1B Median Design, City of Bozeman Design Standards and Specifications Policy.
- The Parks Department has experimented with wildflower plantings in medians. Typically, the wildflowers reseed with little maintenance. However after 3-4 years, wildflowers die off and need to be reseeded. The Department is currently studying the long-term cost benefits of this planting.
- The City has experimented with artificial turf in one median. The artificial turf performs well but stands out among dormant plantings during colder months.
- The curb and gutter for some medians has been modified in response to the damage caused by snow plows. The modified curb is flush with the road along a median's nose. This design also provides excellent access for maintenance crews and mowers.
- Arterial and local streets have been narrowed in recent years to make snow removal easier. See Appendix 2B Typical Roadway Sections, City of Bozeman Design Standards and Specifications Policy.
- Integral curb and gutter is used along all streets to accommodate snow removal and hydraulic flow. See Appendix 3B Integral Concrete Curb and Gutter, City of Bozeman Design Standards and Specifications Policy.
- Bozeman has incorporated decorative concrete pavement in streetscape design throughout the city. The concrete pavement includes stamped and colored concrete bands in medians and along sidewalks, and has performed well over time.
- The Bozeman Utilities Department coordinates with the Public Service Department when prioritizing utility and street maintenance to

prevent roads from needlessly being resurfaced multiple times.

- Monuments are to be placed on new or reconstructed streets at all section corners, quarter corners, and sixteenth corners. See Appendix 4B, Monumentation, Design Standards and Specifications Policy, City of Bozeman, MT.
- Multi-disciplinary Development Review Committees have been established to assist in the technical review of street enhancement projects. The committee is comprised of all departments responsible for the planning, design and maintenance of streets. Proponents pitch street design plans to the Development Review Committee in the preliminary stages of the approval process for direction, advice and approval.
- Bulb outs are distinguished through signs during winter months to alert snow maintenance crews. There are design guidelines in place for bulb outs to ensure proper performance over time. See Appendix 4B Roadway Design and Technical Criteria, City of Bozeman Design Standards and Specifications Policy.

OPERATIONS AND MAINTENANCE: THE DELEGATION AND SHARING OF RESPONSIBILITIES

- Snow removal is shared between the Parks and Public Services Departments. Parks is responsible for trails and Park grounds; the Public Services Department is responsible for sidewalks, downtown and roads.
- The Forestry Division resides in the Public Service Department, therefore all hardscape and trees within the public right-of-way are managed in one department. This organizational structure allows for the sharing of resources, manpower and equipment for O&M responsibilities. For example, Public Services will often assist Parks with snow removal because staff and equipment availability.
- There are currently four full- time ISA Certified Arborists on staff in the Forestry Division responsible for the care and maintenance of parks and street trees. Trees on street boulevards are trimmed on a ten year cycle for structure, safety, and pedestrian and vehicle clearance. The Forestry Division has a

computerized inventory of all the public trees and is in the process of integrating GPS/GIS with the existing inventory system.

- The Forestry Division also manages the Cost Share Program which provides trees along city streets at a shared cost with residents and the Forestry Division to encourage diversity of hardy tree species. Residents must agree to water the tree regularly for establishment.
- The Forestry Division oversees the Tree Voucher Program that supports the removal and replacement of existing trees in the public rights-of-way.
- The Vehicle Maintenance Department is a subdivision of the Streets Division. The department is responsible for the repair and service of city owned equipment and vehicles. The Vehicle Maintenance department employs 3 full time mechanics who maintain the City's fleet of 400+ assets.
- The Streets Division employs 14 full-time staff and 3 seasonal employees. Seasonal staff retention and training has been successful as most employees are older high school students that return the following year for employment during college summer break.
- The Engineering Division oversees contracted work for street maintenance. Maintenance that is contracted includes overlay and chip seal applications, which has an annual budget of \$400,000. These contracts are renewed on an annual basis. See Appendix 5B 2011 Street Improvements Bid Opening for a cost breakdown.
- The Parks Department mows and maintains all landscaped areas in City limits
- Sand with a 10% salt content is predominantly used for snow/ ice control. Therefore snow removal requires a lot of hauling. Deicers are used during storm events rather than before to save money. Deicing solutions used include Ice Slice® and magnesium chloride. See Appendix 6B Street Maintenance Division Snow and Ice Control Plan for more information on the manpower, equipment and operational procedures.
- Gallatin County and the City of Bozeman collaborate with snow removal and mowing on land that borders city limits.
 - The City and County meet annually to discuss a "street swap" wherein miles of

street are swapped between the two agencies for snow removal.

- The Public Services Department mows County land planned for annexation in the near future.
- Montana State University and the City are collaborating with maintaining Bozeman's first roundabout. The irrigation is tied into the University's irrigation system and MSU is maintaining the landscape.
- Home Owner Associations maintain neighborhood parks and entryway medians into private developments.
- Snow removal on sidewalks are maintained by adjacent landowners and enforced through a snow ordinance. See Appendix 6B for the City's Sidewalk Snow Removal Municipal Code.

BUDGETING AND FUNDING

- The Parks Division is funded solely through general funds.
- Forestry Division funding comes from the Tree Maintenance Fund which is a yearly assessment on all property within the city limits.
- Street maintenance funding comes from the Street Maintenance District, an annual assessment levied on each piece of property located within City limits, and from gas tax revenues received from the State of Montana. The gas tax revenues are transferred to the general fund to reimburse expenditures for construction, reconstruction, repair and maintenance of streets. Bozeman City Departments are required to submit detailed, itemized expenditure calculations associated with capital and O&M costs
- The City of Bozeman uses a suite of funding sources to improve and expand the transportation system. Below is a list of funding sources categorized by agency. For more information on each funding source, see Chapter 11: Financial Analysis, Greater Bozeman Area Transportation Plan (2007 Update) at: http://www.gallatin.mt.gov/Public_Documents/gallatincomt_grants/TigerIV/2001BozemanTransportationPlan/Chapter%2011.pdf

Federal funding sources:

- Interstate Maintenance
- National Highway System

- Surface Transportation Program
- Highway Safety Improvement Program
- Highway – Railway Crossing Program
- Highway Bridge Replacement and Rehabilitation Program
- Congestion Mitigation & Air Quality Improvement Program

State funding sources:

- State Funded Construction

- TransADE

County funding sources:

- Road Fund
- Bridge Fund
- Special Revenue Funds
- Capital Improvements Fund
- Rural Special Improvement District Revolving Fund
- Special Bond Funds
- Specialized Transportation Fund

City funding sources:

- Special Improvement District (SID) Revolving Fund
- Special Revenue Funds
- General Fund
- Gas Tax Apportionment
- Development Impact Fees
- Developer Exactions
- Bozeman Parking Commission
- Tax Increment Financing
- Bozeman lists its five year funding priorities for capital projects in the Capital Improvements Plan (CIP), which is updated annually. Funding for projects listed in the CIP can come from a variety of sources, but projects funded by transportation impact fees must be included in the CIP.
- The Impact Fee Capital Improvement Program (IFCIP) also sets a list of five year funding

priority projects, but is limited to projects wholly or partially funded through impact fees. The preliminary list of proposed projects in the CIP and IFCIP are prepared by city staff annually and then submitted to the City Commission for adoption for the following fiscal year.

KEY FINDINGS

- The Public Service Department initiated a public engagement program to inform City Council and citizens of the department's O&M responsibilities. This program helps Council and the public understand how money is spent--especially when impact assessments are being increased, or when the Department is requesting additional funding. Please see Appendix 6B Street Maintenance Division Snow and Ice Control Plan.
- In 2011, the Streets Division conducted a study on curb and gutter replacement needs. The study used historic data to demonstrate that if funding dedicated to curb and gutter replacement continued at the same pace, it would take the Division 64 years to complete. Additionally, in 2012 the Street Maintenance special assessment program expanded to include major street reconstruction projects. The first project utilizing this funding source is the reconstruction of South 8th Avenue. These two circumstances led to street maintenance funding nearly doubling.
- In response to climatic conditions, several modifications have been made to street and planting standards:
 - Arterial streets have been narrowed to accommodate plowing
 - The curb of median noses are flush with the asphalt to prevent damage from snow plows
 - Capped concrete medians are no longer preferred to reduce the need for street sweeping
 - Turf and tree plantings are preferred in the right-of-way to decrease O&M requirements
- The Transportation Development Review Committee engages all departments responsible for the planning, design and O&M of street enhancement projects early in the planning phase, resulting in an integrated design and implementation process.

03

FORT COLLINS, COLORADO

EXISTING AND PROPOSED ROADWAY ENHANCEMENTS

The following list highlights some of the enhancement projects recently completed or currently underway in the City of Fort Collins, CO:

- The Mason Corridor Project proposes converting Mason and Howes Streets back to two-way operation to improve pedestrian, bicycle and vehicular access to downtown. Improvements include:
 - Two-way bicycle lanes
 - One new traffic signal
 - Left turn lanes
 - Bus Rapid Transit System (BRT) in a fixed guideway with railroad and traffic signal facilities
 - Underground communication conduits



Mason Street Corridor Project, Courtesy of Fort Collins, CO

- The North College Improvement Project is being conducted in phases; the first was completed in 2010 and consisted of improvements from Jefferson Street to Poudre River. The second phase is scheduled for construction in October 2012. The purpose of the plan is to improve the corridor's safety, operations and aesthetics. Improvements include:
 - Redefining and consolidating driveways
 - Curb and gutter
 - Updated storm system
 - Bike lanes
 - Landscaped parkways
 - Sidewalks
 - Asphalt overlay
 - Urban design elements such as pedestrian lights, benches, planters, customized bike racks
 - Crosswalks
 - Pedestrian bridge with arbor



The North College Improvement Project, Courtesy of Fort Collins, CO

- Linden Street Improvement Project was a rehabilitation and construction project that was completed in 2011. Improvements include:

- The redesign of water, sewer and storm water pipelines
- Curb and gutter
- On-street parking
- Bike lanes
- Sidewalks
- Intersection improvements
- Urban design elements such as pedestrian lights, benches, and planters

- Jefferson Street Alternative Analysis Project is scheduled for completion in 2012. The report analyses different enhancement alternatives that improve the air quality, livability, and urban character of the corridor. Improvements may include:

- Bicycle lanes
- Decoratively paved sidewalks
- Bus stations
- Pedestrian amenities
- Roundabout

STREET STANDARDS/ LESSONS LEARNED

- In response to public concern about sustainability, the City has started replacing turf in the public right-of-way with low water and low maintenance landscape enhancements. The City is experimenting with different plantings such as native grasses and low water shrubs with minimal irrigation and mowing required.
- To minimize damage to curb and gutter while removing snow around bulb outs, Fort Collins uses a front loader with a broom attachment, which requires more effort but saves money in the long run.
- Street crews have learned to plow in tandem and push all snow to the outside edges during snow removal around roundabouts.
- In the past five years, Larimer County has changed the design of median curbs to prevent

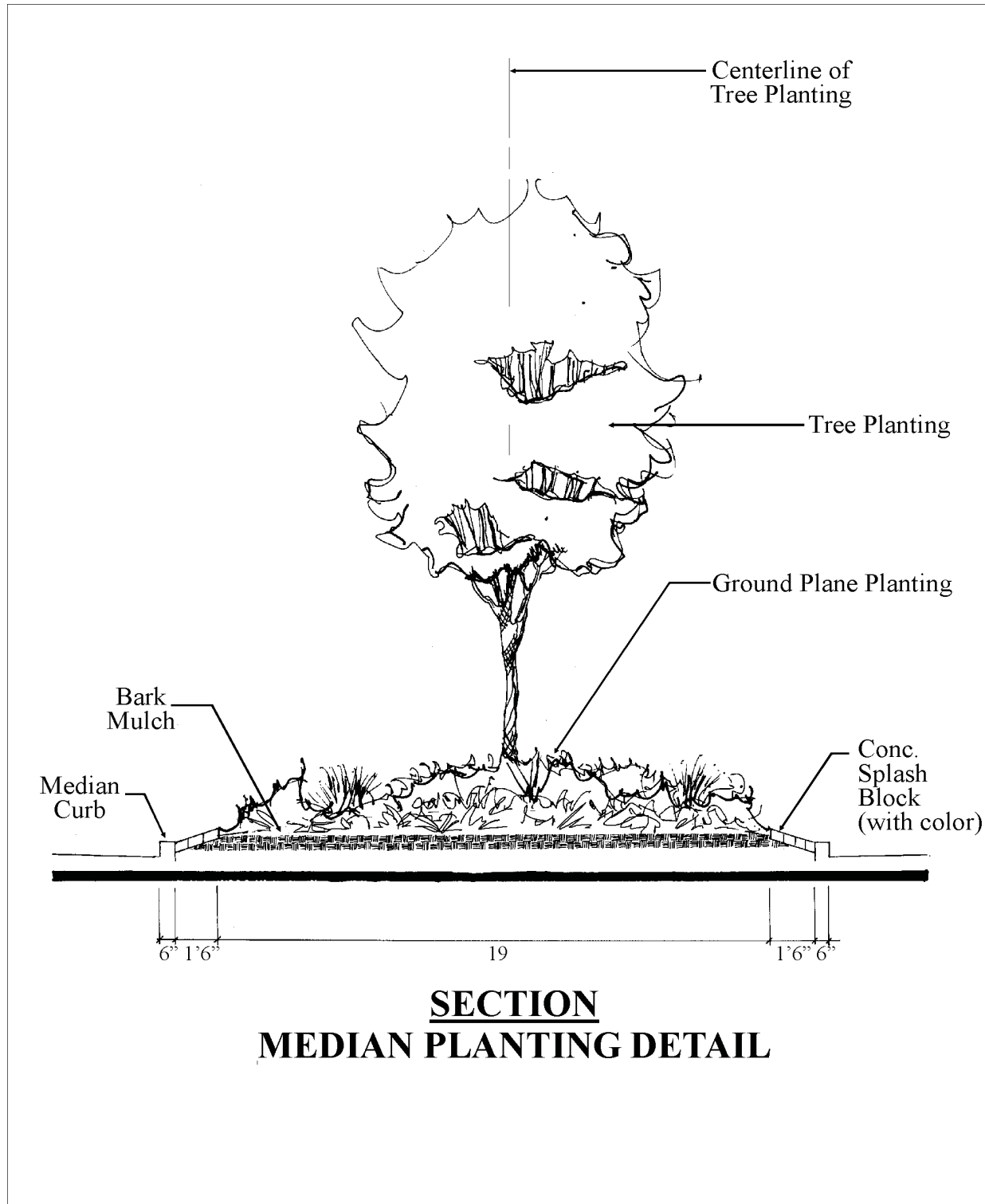
damage from snow plows. Where appropriate, median noses are 2" tall and ascend to the normal curb height as they round the corner.

- In some instances where the median extends beyond the pedestrian walkway, Fort Collins has moved the medians back by 6-8' to provide ample room for large vehicle turning radii.
- Fort Collins has modified the water:cement ratio in concrete from 3,000 to 4,000 PSI so the pavement can withstand deicing materials.
- Larimer County Street Standards advises concrete to be laid in warmer months and/ or limit the amount of deicing solution applied to new concrete.
- Fort Collins incorporates splash plates along medians for safety purposes; an estimate of 20-30 cars per year drive into medians and splash plates reduce vehicular impact. Additionally, splash plates retain mulch and protect landscape from salt and sand.
- The City is currently in the process of updating its Street Standards to provide a median design that costs \$9-\$12 per square foot, including curb, gutter, irrigation and landscaping.
- Fort Collins has developed street standards for right-of-way design. This document includes two different planting typologies, plant species, design standards and guidelines for different street type, median design options, parkway design options, irrigation standards, turf seeding standards, maintenance standards and plant establishment guidelines. For more information see <http://www.fcgov.com/advanceplanning/pdf/streetscape-doc.pdf>

OPERATIONS AND MAINTENANCE: THE DELEGATION AND SHARING OF RESPONSIBILITIES

- The Operations Department provides building and fleet maintenance for all City departments with the exception of the fire department. Most fleet maintenance is performed in-house with the exception of body, upholstery, glass, and major component overhauls because it is more cost competitive to do it privately. Additionally, the department oversees equipment replacement. Every department is assessed a per vehicle/ per mile fee.
- Intergovernmental agreements for O&M are in place where properties overlap (for example, a school district with a park that connects to a

City of Fort Collins Streetscape Design Standards and Guidelines
Streetscape Design and Planning



school). In these circumstances, one agency will agree to mow and the other will agree to remove snow.

- County and City staff meet annually to develop a mile for mile swap for snow removal.
- CDOT subsidizes maintenance along state highways. For example CDOT provided asphalt and the City provides personnel. This agreement occurred during the resurfacing of College Avenue in November, 2011.
- In Growth Management Areas (County property planned for annexation), the County will improve streets according to City standards because they are more stringent. This situation occurred during the North Shields Road with Bridge Improvement Plan. Larimer County secured state and federal funding for the project and collaborated with the City throughout the planning, design and construction processes.
- Transportation maintains streets and transportation trails (corridors with attached and detached sidewalks classified as primary commuter paths)
- The Street Division mows turf in the public right-of-way with a gang mower. All other landscaped areas are maintained by the Parks Department.
- The Utilities Department oversees stormwater, wastewater, water, light and power.
- The Utilities Department maintains regional detention ponds and owns and maintains the mowing equipment.
- Home owners are responsible for the upkeep of local detention ponds.
- The City contracts out O&M responsibilities based on limited manpower and equipment. See Appendix 1C City of Fort Collins Invitation to Bid for Streetscape Maintenance for information related to contractual language and responsibilities. Contracted labor includes:
 - Snow removal during large snow events
 - Snow removal on sidewalks along arterial streets
 - Trucking for major asphalt maintenance
 - Tree trimming along public right-of-way

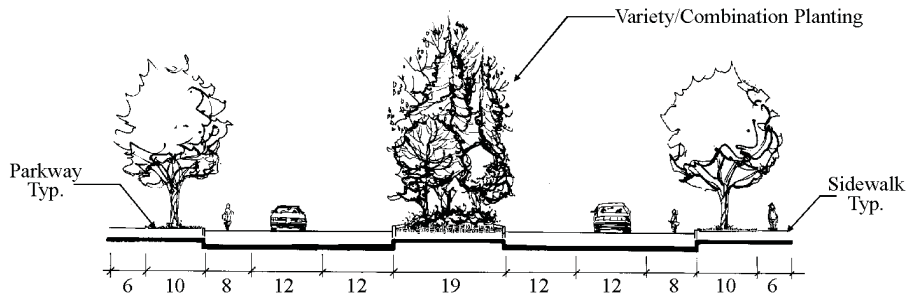
- Major pavement operations such as chip seal, and hot and place asphalt recycling
- Concrete repairs
- General landscaping maintenance (\$162K FY2011) in the right-of-way which includes:
 - Trash removal
 - Limb removal
 - Fertilization
 - Weed control
 - Irrigation check

- Snow removal on sidewalks are maintained by adjacent landowners and enforced through a snow ordinance. See Appendix 2C City of Fort Collins Snow Ordinance.
- The Parks Department is responsible for power washing and sweeping sidewalks downtown and provides basic infrastructure repairs.
- The Forestry Department maintains street and park trees
- Flasher boards are required during maintenance and construction activities that require lane closures
- The Parks Department employs 26 technicians, 6 crew chiefs, 3 supervisors, 1 parks manager, and administrative support. Additionally, 60 to 100 seasonal employees are hired during summer months. The department trains and retains seasonal employees well and many return year after year.
- Medians and parkways are usually the “gray areas” that are not being maintained by adjacent property owners. The Engineering Division manages the documentation of homeowners responsible for maintenance in public areas. Code enforcement citations are distributed to homeowners and HOAs not fulfilling maintenance obligations.

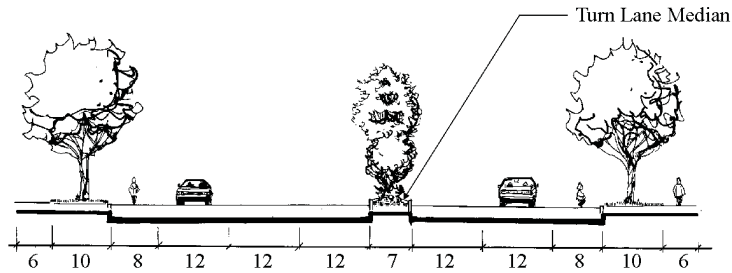
BUDGETING AND FUNDING

- The City uses the Budgeting for Outcome philosophy. Therefore, departmental budget requests are fairly general because City Council is more concerned about results, such as response time for snow removal. Refer to

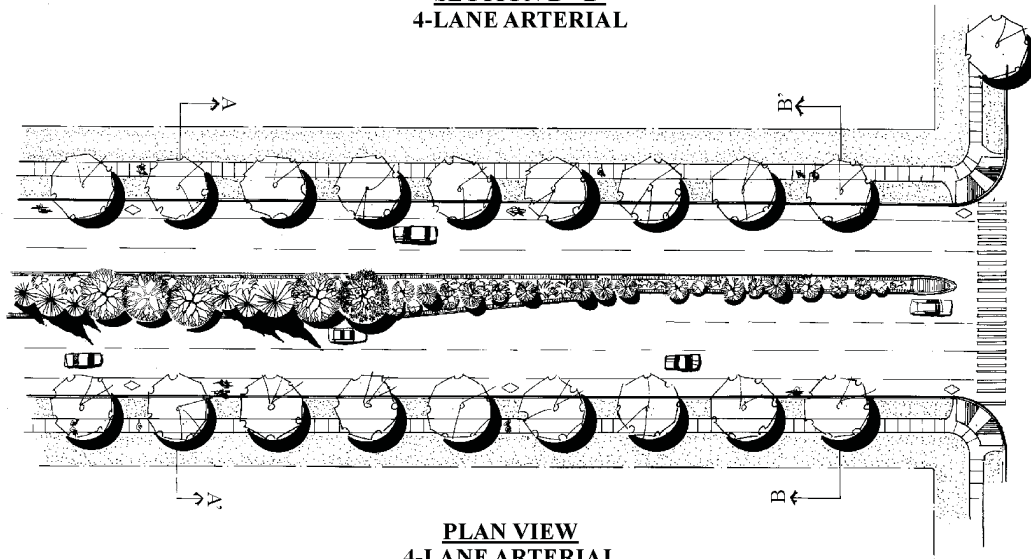
Variety/Combination Style Streetscape - 4 Lane Arterial Street



SECTION A - A'
4-LANE ARTERIAL



SECTION B - B'
4-LANE ARTERIAL



PLAN VIEW
4-LANE ARTERIAL

Appendix 3C City of Fort Collins Budget Offer 104.1 for the median maintenance offer and Appendix 4C Fort Collins Budget Offer 127.5 for the street maintenance offer to City Council.

- The Transportation Department uses the Pavement Management Program and Street Maintenance Program to forecast future funding needs. The Programs rely on a database that prioritizes roadways in need of improvement and uses base assumptions to calculate costs. Although base assumptions provide a general idea for potential maintenance costs, they are not exactly accurate because:
 - Standardized costs cannot account for every unique situation. For example, arterial streets range between \$4-8 million per mile to account for bridges, right-of-way acquisition which is based on location (urban, transition and rural), railroad right-of-way, and a 20% allowance for utilities.
 - Maintenance is difficult to assess because much of the cost is contingent on failing infrastructure.
- The Parks Department receives replacement costs through a separate budget request to City Council. The 2011 budget was \$38K and covered irrigation upgrades, plant replacement and remulching. Funding needs significantly surpass the current budget allocation (by nearly 60%) and the department hopes to secure additional funding for 2012.
- The Parks Department contracted CoCal \$167,211 for landscape maintenance, plus an additional \$35.00/hr for irrigation repairs. Refer to Appendix 1C City of Fort Collins Invitation to Bid for Streetscape Maintenance for contract information.
- The Parks Department enlists public support through volunteerism and Adopt a Parcel programs with mixed-success:
 - The Adopt a median program is the least successful public program and currently has no participants. Maintenance is performed by the Parks Department and is funded by the donor. When the program had donors, maintenance rarely occurred.
 - Adopt a trail and park programs have been very successful and instrumental in the upkeep of the City's parks and trails system.
- The City maintains a list of volunteers and of potential projects that could incorporate volunteers. That way volunteers can easily be placed into a program. Volunteer opportunities range from painting underpasses, turning beds, to mulching trees.
- There is such a large volunteer base in the City that the Parks Department could hire a full-time coordinator if funding was available.
- The Parks and Transportation Departments are supported through General Funds. The City is considering establishing annual assessments for O&M in both departments
- Capital Improvement Projects are funded through several sources, including:
 - The .25% Building-on-Basics (BOB) voter approved sales tax
 - Measure 2B, a .85% voter approved sales tax
 - Impact assessment fees
 - General Funds
 - Federal Transit Administration grants
 - State Funds
 - County funds generated through the Road Capital Expansion Fee program
 - Tax Increment Financing
- O&M expenditures for roads, bridges, bicycle and pedestrian services are funded with Transportation Services Fund revenues such as:
 - State Highway User Tax Fund
 - County Road and Bridge Fund
 - Motor vehicle registration fees
 - Transfers from the General Fund
 - The 0.25% BOB voter approved sales tax
 - The 0.85% 2B funds, which will add an estimated \$6.1 M each year for 10 years for maintenance

KEY FINDINGS

- The City's organizational structure has changed over time to meet current needs.
 - The Operations Services Department became a separate entity nearly 15 years ago to better serve City maintenance needs. Since then, the department has grown to include the Real Estate Services and Project Management, Planning and Design Divisions.
 - Utilities became a separate entity in 1938
 - Recreation became a separate entity in 1999.
 - This organizational structure has advantages.
 - Operations Services Department:
 - Equipment replacements are more equitable because applications are reviewed with an objective eye
 - Departments are billed for usage therefore are held accountable for equipment use
 - Encourages departments to drive less and use more economical vehicles because usage rates are lower for smaller vehicles
 - Provides the City with better purchasing power
 - Utilities and Recreation:
 - Assessing needs and budgetary allocations are easier given both departments rely on funding sources outside the General Fund.
- The City collaborates with State and County agencies for maintenance, funding and design.
 - The County and City collaborate in GMAs.
 - Mile for mile plow swaps between the state and City
 - Materials and personnel swaps for maintenance between the state and City
 - Snow for mow swaps between the County and City
- Snow removal around bulb outs is achieved with a front loader which requires more effort but cheaper in the long run because curb and gutter is preserved.
- In 2011, the City distributed a pamphlet to residents that offered options to overcome budgetary shortfalls. Options included cutting existing services, an increase in sales tax, an increase in property tax, or an increase in fees. Voters approved an .85 percentage point increase in the City sales tax over a 10-year period. See Appendix 5C Resourcing Our Future.
- The City adopted the Budgeting for Outcomes philosophy. The process includes:
 - Community input to prioritize results
 - Multi-disciplinary "result teams" that review programs from departments. Programs approved are those that have the most impact on the desired outcome.
 - Fort Collins runs on a two-year budget cycle which informs departments of projects two years ahead of time
- Fort Collins offers the most comprehensive Street Standards document of all communities researched. The document is currently being updated with a goal to develop a median standard that costs \$9-12 per square foot (the standard includes curb, gutter, irrigation and landscaping). The Fort Collins Street Design Standards provides the following information
 - A plant list for streets, updated in 2011
 - A compilation of documents from several departments such as:
 - The City of Fort Collins Landscape Guide
 - Landscape Standards for Streetscapes and Medians
 - City Forestry Standards and Specifications
 - Harmony Corridor Plan
 - Prospect Road Streetscape Program

- North College Avenue Corridor Plan
 - Standards and guidelines for the hardscape, irrigation, utilities, and landscape of Medians and Parkways
- Maintains historical data dating back 30 years to provide good base cost assumptions

04

LINCOLN, NEBRASKA

EXISTING AND PROPOSED ROADWAY ENHANCEMENTS

The following list highlights some of the enhancement projects recently completed or currently underway in the City of Lincoln, NE:

- The North 1st from Nance Avenue to Superior Street project involves several improvements and is scheduled for construction in the spring of 2012. Improvements include:
 - Widening from 2 lanes to three lanes
 - Resurfacing
 - Curb and gutter
 - Curb ramps
 - Driveway approaches
 - 10 foot wide bike-trail on the east side of the street
 - Shared center left-turn lane
 - Single-lane roundabout
 - Fire hydrant relocations
 - Storm drainage extensions
 - Street lighting
- The reconstruction of South 56th Street from Old Cheney Road to Shadow Pines Drive is currently in the preliminary design stage with the first public meeting tentatively scheduled in the spring, 2012. Improvements include:
 - Widening from 2 lanes to 4 lanes
 - Right and left turn lanes
 - New drainage structure
 - Pedestrian under-crossing
 - Raised median



The North 1st Improvement Project, Courtesy of Lincoln, Nebraska

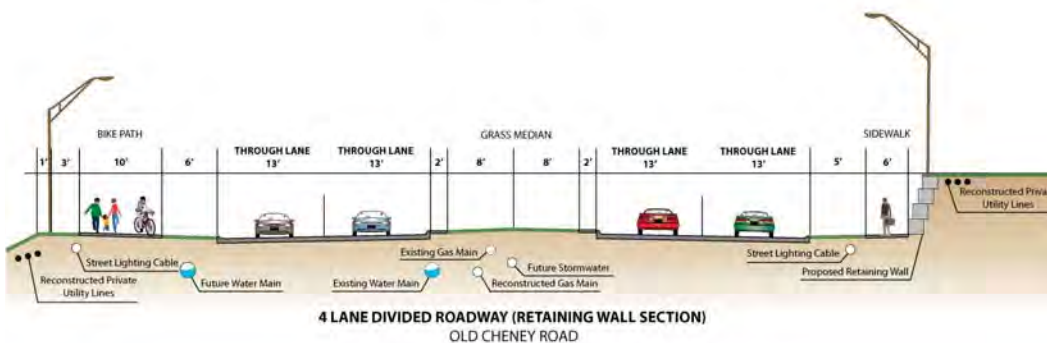
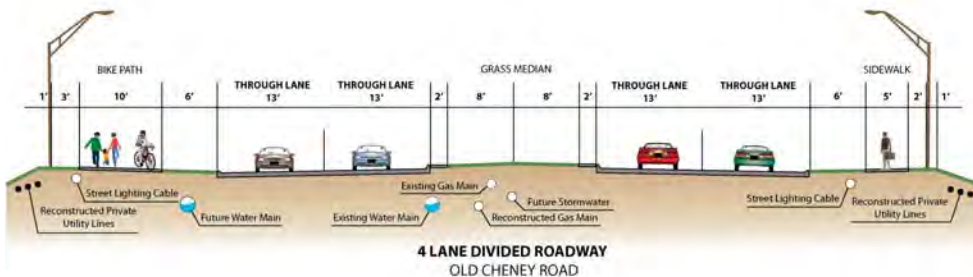
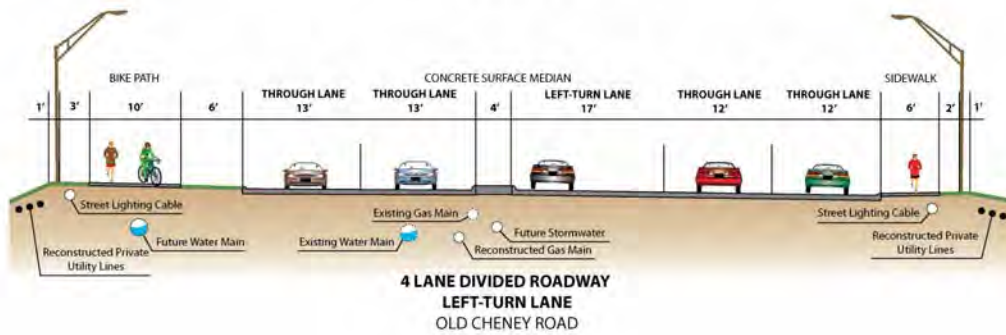


The Reconstruction of South 56th Street, Courtesy of Lincoln, Nebraska

- The Old Cheney Road Improvement Project is scheduled for construction in early 2014. The project includes:

- Widening from 2 lanes to 4 lanes
- New drainage facilities
- Reconstruction of water and wastewater mains and private utility lines
- Bike trails
- Sidewalks

- Curb ramps
- New traffic signal
- Street lighting
- Communications infrastructure
- Retaining walls
- Grass median



- The final design for the Pine Lake Road Improvement Project is nearly complete with construction contingent upon funding. Improvements include:
 - Widening from 2 lanes to 4 lanes
 - Turn lanes
 - Raised median
 - Sidewalks
 - Curb and gutter
 - Storm sewers
 - Road realignment to improve site distance
 - Pedestrian under-crossing
 - Drainage ditch

- The Lincoln Public Works and Parks Departments strive to incorporate Silva Cells, an underground network of modular frames filled with soil, in new road construction to help promote decent root systems in street trees.



Silva Cells Installed at Union Plaza, Courtesy of Lincoln, Nebraska

STREET STANDARDS/ LESSONS LEARNED

- The City has developed Design Standards for landscaping streetscapes, medians, boulevards, roundabouts and major streets. The standards include design process requirements, plant selection and plant placement. A 2005 draft of the document originally included a plant list of salt tolerant species to be used in the public right-of-way, however the latest document does not include the list (the landscape designer managing streetscape plantings did not know why the list was removed). The plant specialist who manages public right-of-way plantings still follows the list. See Appendix 1D Design Standards for Landscaping Streetscapes, Medians, Boulevards, Roundabouts and Major Streets (2005) for the draft version that includes the plant list. See <http://lincoln.ne.gov/city/attorn/designs/ds420.pdf> for the latest design standards document.
- Lancaster County provides typical road sections in the City of Lincoln Design Standards manual. See Appendix 2D Lancaster County Street Sections.
- The City prefers raised medians with 12" wide splash plates to contain mulch, protect median plantings, and provide a safer environment for maintenance crews. This preference is not included in the City's Street Design Standards.
- In 2006, City Council passed Resolution A-82058, which outlines the approval process by which the Parks and Recreation Department must follow to implement streetscape improvements. The resolution requires the department to identify funding sources for each project and identifies standards for streetscape elements, planting design, and irrigation. Where applicable, property owners are responsible for ongoing maintenance costs. In such cases, property owners are informed of costs through an outreach program. See Appendix 3D Resolution NO. A-82058.
- The City created a matrix that maps the maintenance responsibilities and costs of median plantings by median type (basic versus enhanced) throughout the city. This matrix provides the necessary data to manage the maintenance of medians, approximate installation and long-term maintenance costs by median type, and substantiate funding needs. See Appendix 4D Median Maintenance Matrix, 2008

- Several medians are maintained by contractors. The City has experienced performance issues with contractors in the past therefore the contracts' terms and conditions have been crafted to protect the City from negligence. See Appendix 5D Requirements for Landscape Maintenance Services South Street being 9th Street to 19th Street.
- The City has created Design Standards for Street Trees that provide spacing requirements and quality assurance. See Appendix 6D City of Lincoln Design Standards for Street Trees.
- Buffalo grass and perennial flowers are rarely used in right-of-way plantings because of low (3-5-year) life expectancy. The City has had the most success with native plantings and ornamental grasses, shrubs and deciduous trees. All shrub and grass plantings are kept at 30" maximum in height to maintain site distance.
- Unenhanced medians, or medians without irrigation, have trees and grass. Trees are watered by truck.
- The City is very careful in selecting medians to be enhanced; only 1/10 of the City's medians are enhanced. Aspects considered in the selection process include, but are not limited to:
 - Proximity to the business district
 - If the corridor serves as a gateway to the city
 - The financial support and special interest of a private entity
- Design Standards require new development to plant trees in the right-of-way.
- The City just passed new restrictions on mowing emissions therefore Public Works must buy mower equipment to meet standards.
- Buffer areas along drainage channels and around lakes are managed as long grass to help stabilize channel banks and protect water quality. Longer grass stems provide deeper root systems that stabilize the soil along channel banks.

OPERATIONS AND MAINTENANCE: THE DELEGATION AND SHARING OF RESPONSIBILITIES

- Public Works currently mows all turf in the public right-of-way but is looking to contract the responsibility in the next couple of years due to lack of manpower and resources.
- Nearly all plantings in the public right-of-way are maintained by contractors. The majority of funding for contracts is allocated to, and managed by, Public Works. The Parks Department oversees the administration of contracts and contracted work because of the department's plant expertise. Public Works and Parks are considering changing the maintenance oversight structure. The new arrangement would task the Parks Department with overseeing plant establishment. Once plants are established, Public Works would manage contracts and contracted work. If a new tree is needed, Public Works would contact Parks for tree replacement. A primary reason for this change is budgetary; Parks must spend all money allocated to the department within the fiscal year whereas Public Works can carry over any money unspent. See Appendix 5D Requirements for Landscape Maintenance Services South Street being 9th Street to 19th.
- The Parks and Recreation Department maintains right-of-way plantings managed by the City.
- The Forestry Division trims and maintains all trees in the public right-of-way.
- The Downtown Lincoln Association manages the following maintenance activities downtown:
 - Daily trash removal
 - Weekly sidewalk cleaning
 - Landscape maintenance
 - Tree and shrub replacement
 - Handicap ramp snow removal
 - Holiday decorating

- The Lincoln Parks Foundation was established in 1992 to support and sustain the Parks and Recreation Department. The Foundation provides the following services:
 - Advocates to City Council for parks funding needs
 - Organizes volunteer activities
 - Recruits volunteers
 - Fundraises for Capital Improvement Projects
 - Fundraises and manages:
 - Scholarships for recreation activities
 - The miniature grant program that encourages more community groups to volunteer to take on landscape maintenance and other improvements in neighborhood parks and along trails
 - Friends of the Lincoln Parks Foundation, an annual membership program that raises money for park improvements
 - Scholarships for early childhood education
 - Acquires local and national grants with City grant writer
- The City and County share maintenance responsibilities. For example, the City maintains a 1500 acre track on county land that features a main tributary running through a city wilderness park.
- Lincoln Electric System, a semi-autonomous nonprofit, customer-owned utility, installs, replaces and maintains all street lighting in the public right-of-way. The Building and Safety Department is responsible for administration of the design standards. See Appendix 7D Design Standards for Outdoor Lighting.
- The Fleet Services Division under Public Works maintains fleets for all City departments with the exception of StarTran, Police and Fire.
- The Public Works and Parks Departments swap different land for mowing and snow

removal to benefit both departments.

- Parks is responsible for snow removal on trails; Public Works is responsible for snow removal on streets and sidewalks.
- A City ordinance is in effect that requires property owners to clear snow and ice from sidewalks. See Appendix 8D 14.80.110 Snow and Ice Removal.

BUDGETING AND FUNDING

- The City has developed the voluntary donation program, *Lincoln Cares*, to support park improvement projects. The program offers Lincoln Electric System (LES) customers the opportunity to contribute an extra dollar per utility bill. Donations are bolstered by matching funds from local businesses and agencies. Approximately 5% of LES customers donate \$1 a month and the program has generated more than \$1,000,000 since its inception in 2003. For a list of projects supported by the program, see Appendix 9D City of Lincoln, Mayor's Office 2011 Media Release.
- In response to the City's tree planting budget being slashed by 75%, Lincoln developed another voluntary donation program to help maintain trees along city streets, trails, golf courses and parks. The program, *\$2 for Trees*, was announced in March, 2012, and provides Water System customers a chance to donate \$2 on their bi-monthly water bills. Donations are matched by local businesses and agencies.
- City departments base budgetary requests on historic data spanning the previous two years.
- In the past five years, the Parks Foundation has increased funding activities to fulfill funding needs.
- The state currently prohibits municipalities from increasing local sales taxes. State legislators are considering passing a bill that enables cities to pass voter approved tax increase initiatives.
- Bonds are occasionally used to support transportation plans however the City has not been very successful in getting them approved. In 2011, the City proposed a bond measure that would fund several capital and road improvement initiatives; it was not approved.
- In 2011, the state passed Legislative Bill 84 which reallocates a portion of the state sales

tax toward improving and maintaining the expressway system. This reallocation will last for 20 years.

- In 2012, the City Wheel Tax will increase over a two year period to provide funding for the O&M of roadways. The increase was not voter approved, however citizens advocated for increased funding during the Budgeting for Outcomes public engagement program.
- The City of Lincoln uses the following funding mechanisms to support and expand the transportation system (see Appendix 10D City of Lincoln Capital Improvement Program, Key to Funding Sources for more information):

Federal Funds:

- Bridge Replacement
- Congestion Management Air Quality
- Federal Urban Area Project
- STPP Hazard Elimination
- Transportation Enhancement

State Funds

- Municipal Infrastructure Redevelopment Fund
- State-Train Mile Tax

Local Funds

- City Wheel Tax
- Community Improvement Financing (TIF)
- Developer Contribution
- General Obligation Bonds
- General Revenue
- Impact Fees
- Railroad Transportation Safety District

plazas). The data justifies funding needs to City Council.

- 64 parks, or approximately 35% of the City's parkland, belong to the long grass maintenance program wherein designated areas are mowed only two to three times a year compared to 14 times a year.
- The City practices a "Rural to Urban Streets" development philosophy where the City and County work to improve rural streets with future expansion in mind. Land acquisitions and street design are coordinated from the beginning to streamline expansion efforts.
- The Parks Foundation provides several advantages to the Parks Department:
 - Expands the ability to attain grants because some grants are limited to non-profits while others are limited to governmental agencies
 - Provides endowments for long-term O&M costs on all capital projects for which the foundation has fundraised.
 - Strengthens private/ public partnerships. For example, the foundation located a list of properties affected by a severe storm, provided matching funds to replace trees, and partnered with local nurseries to receive discounts and planting assistance.
 - Provides grants to neighborhoods/ individuals/ groups wanting to improve a park. Grants funds may be used to enhance existing neighborhood parks and trails and to purchase tools and equipment to assist with landscape maintenance activities or park improvement projects.

KEY FINDINGS

- The Parks Department tracks the manpower, hours and equipment used on a daily basis. Every employee must complete a time card that assigns a location and activity to every hour of work performed. This information enables the department to calculate O&M expenditures by park category (regional/ community, neighborhood, miniature, malls/

05

OTHER COMMUNITIES

LARAMIE, WYOMING

The following information summarizes key findings/ lessons learned from Laramie, Wyoming.

- The Parks Department does not contract out O&M responsibilities. Although the concept has been considered several times, the department has found conducting O&M in-house is more cost-effective. .
- Turf is avoided in right-of-ways because the material requires a high degree of O&M.
- Salt tolerant species are planted in right-of-ways that can withstand deicing applications during winter months.
- Vertical curbs are avoided in medians because they increase snow drifting and cause most damage to vehicles and median curbs during accidents. Instead, Laramie prefers a raised median with splash plates and non-vertical curb.
- Experimented with native grasses but found little success. Invasive species would outperform native grasses, requiring constant mowing and fertilizer treatment. Additionally, public perception found unmowed medians planted with native grasses unkempt. Consequently, native grasses have been replaced with tall fescue, which has been performing well.
- Because bulb outs require additional effort for snow removal and are intended to provide accessibility for pedestrians, they are strategically located downtown in places with high pedestrian activity.
- Laramie hires a consultant to inventory street conditions to maintain consistency with inventory findings. The City found as personnel changed from year to year, the basis by which road condition analyses were performed changed as well.
- The Parks Department applies a cost per

square foot for O&M right-of-way plantings. The cost per square foot is calculated according to the median's maintenance schedule. For example, a median with shrub and tree plantings would require the following O&M:

- half day for two people for start-up
 - half day for two people for winterization
 - 1.5 hours for two people every other week for irrigation check and trash removal
 - Two hours for two people to prune twice a year
 - plant replacement 2-3 years after installation, assuming replacement costs would total 5% of capital cost
 - remulch every 3 years
 - sinking fund for plant replacement which gets integrated into the overall operation cost of each median (5 years for perennials; 10 years for shrubs; and 20 years for trees).
- The city is experimenting with concrete roads. The first concrete road was installed in 2011.

RAPID CITY, SOUTH DAKOTA

- The city prefers raised medians planted with perennials and shrubs because they require less irrigation and reduce the accumulation of debris and sanding material.
- Stamped, colored concrete bands are used adjacent to right-of-way plantings to collect salt and deicing solutions and protect plantings.
- River rock is discouraged in right-of-ways because it collects salt and sand. The city prefers crushed granite.
- The Parks Department is currently compiling resource management plans for each park/

landscape area maintained to justify funding needs to council. The city does not have historic data to justify budget needs. The plans outline everything from maintenance man hours, irrigation operations to replacement costs.

LONGMONT, COLORADO

- In Longmont, the street division maintains sidewalks. The maintenance of right-of-way plantings resides in the Parks Department. If the hardscape of center medians is damaged and in need of replacement/ repair, the Parks Department oversees the contract administration. Typically, the maintenance and replacement is performed by a contractor with an Indefinite Delivery/ Indefinite Quantity contract.
- The city instituted a \$1 maintenance fee in the sanitation utility fee to cover some O&M expenditures for parks maintenance. The fee sunsets in 2012 therefore city officials are considering extending the fee's duration.
- In 2011, the city made several changes to the overall organizational structure. Changes include:
 - The creation of specialized teams in the Parks Department responsible for O&M tasks. Teams include: horticulture; maintenance/irrigation; downtown; athletic; and mowing
 - Outsourcing some services to reduce reliance on general fund. For example, the management of pump stations and trash collection in parks has been outsourced to the Utilities Department, which relies on an enterprise fund. As a result, \$300k was saved in the general fund for year 2012.
 - Outsourcing O&M for right-of-way plantings. The city decided to put the O&M of plantings out for bid and the pricing came back 30-40% lower than expected. As a result, 60% of the O&M of right-of-way plantings is now under contract.



APPENDIX A: CONTACT LIST

Rapids City, SD

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Bozeman, MT

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WR Cal, Finance	406.582.2315

Lincoln, NE

Thomas Schaeffer, Public Works	402.441.7548
Terry Gingrich, Parks	402.441.7847
Wynn Hjermstad, Finance	402.441.8211
Scotty, Opfer, Public Works	402.441.7701
Mark Canney, Parks/ Landscape Designer	402.441.8248
Dave Bomberger, Median Maintenance Oversight	402.441.6051
Parks Foundation	402.441.8258

Fort Collins, CO

Rick Richter, Public Works	970.221.6798
Steve Lukowski, Parks Department	970.221.6660
Dave Leicester, Operations	970.224.6061
Doug Groves, Streets	970.221.6280
Tracy Oschsner, Fleet	970.224.6061

Laramie, WY

Harold Colby, Public Works	307.721.5277
Paul Harrison, Parks	307.721.5260
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Longmont, CO

Steve Ransweiler, Public Works	303.774.4532
Tom Street, Engineering	303.651.8694
Charles Kamenides, Parks	303.651.8418
Rob Chatman, Parks	303.651.8745

B

APPENDIX B: BOZEMAN MONTANA

Appendix B: City of Bozeman, Montana

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1B Median Design, City of Bozeman Design Standards and Specifications Policy

Speed Limit

40 MPH or Less $L = WS^2/60$

45 MPH or Greater $L = W \times S$

where

L = length of transition in feet

W = width of offset in feet

S = speed limit or 85th percentile speed

The City of Bozeman Engineering Department should be consulted for any unusual transition conditions. Grade breaks greater than 1-percent are not allowed when matching existing dirt or gravel streets.

8. The cost of offsite pavement transitions shall be borne by the developer.

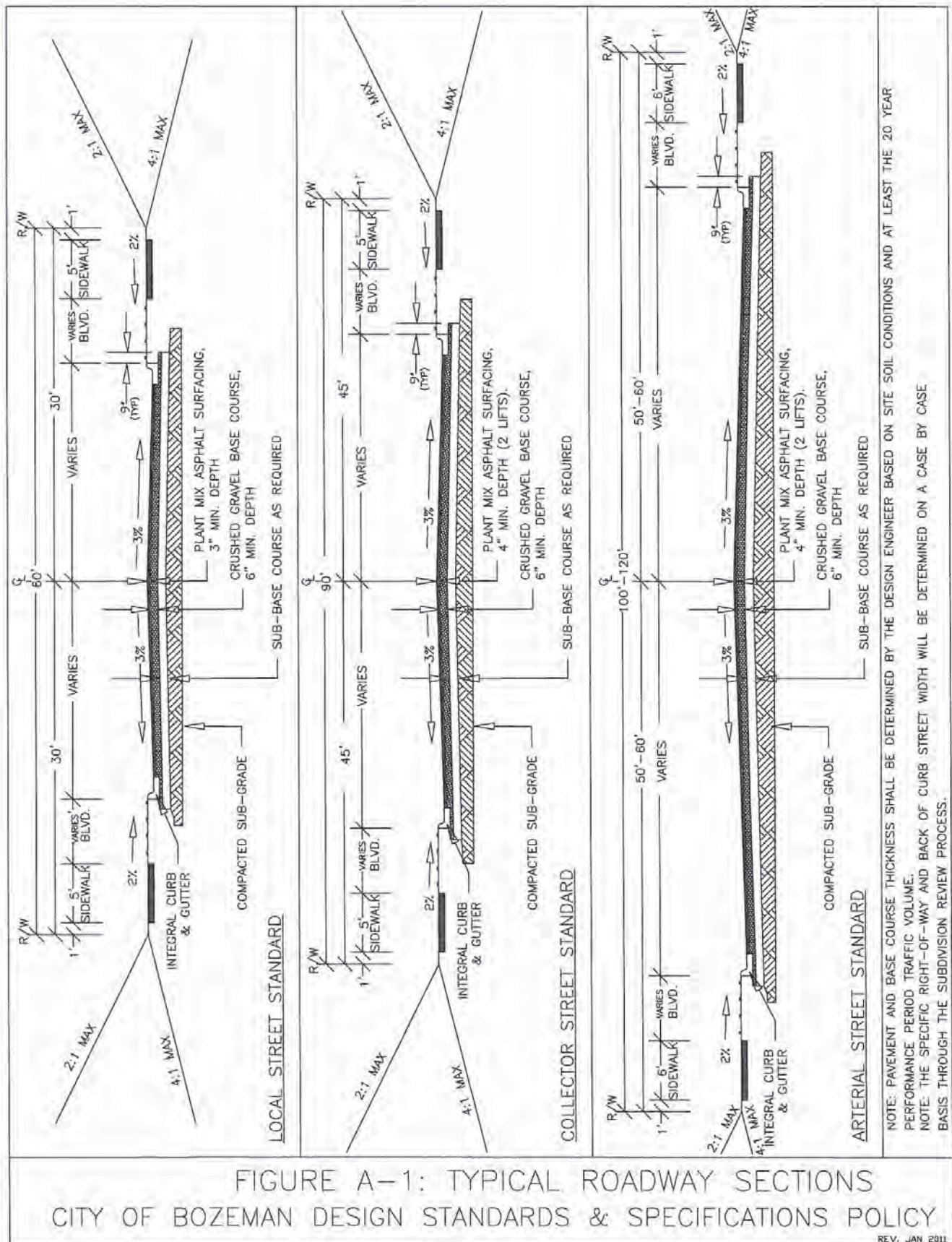
F. MEDIAN TREATMENT

Median curbs should be integral curb and gutter (with spill curb) unless otherwise approved. Medians less than eight (8) feet wide should be capped with M-4000 concrete a minimum of three (3) inches thick. Wider medians should be top soiled and seeded with an approved seed mix. The minimum median width is 4 feet. All medians or raised islands should be made clearly visible at night through the use of adequate reflectorization and/or illumination. Flexible delineators shall be placed at the beginning and end of all medians, and at the point of any horizontal alignment change. All median curbs and island curbs shall be painted yellow with epoxy paint.

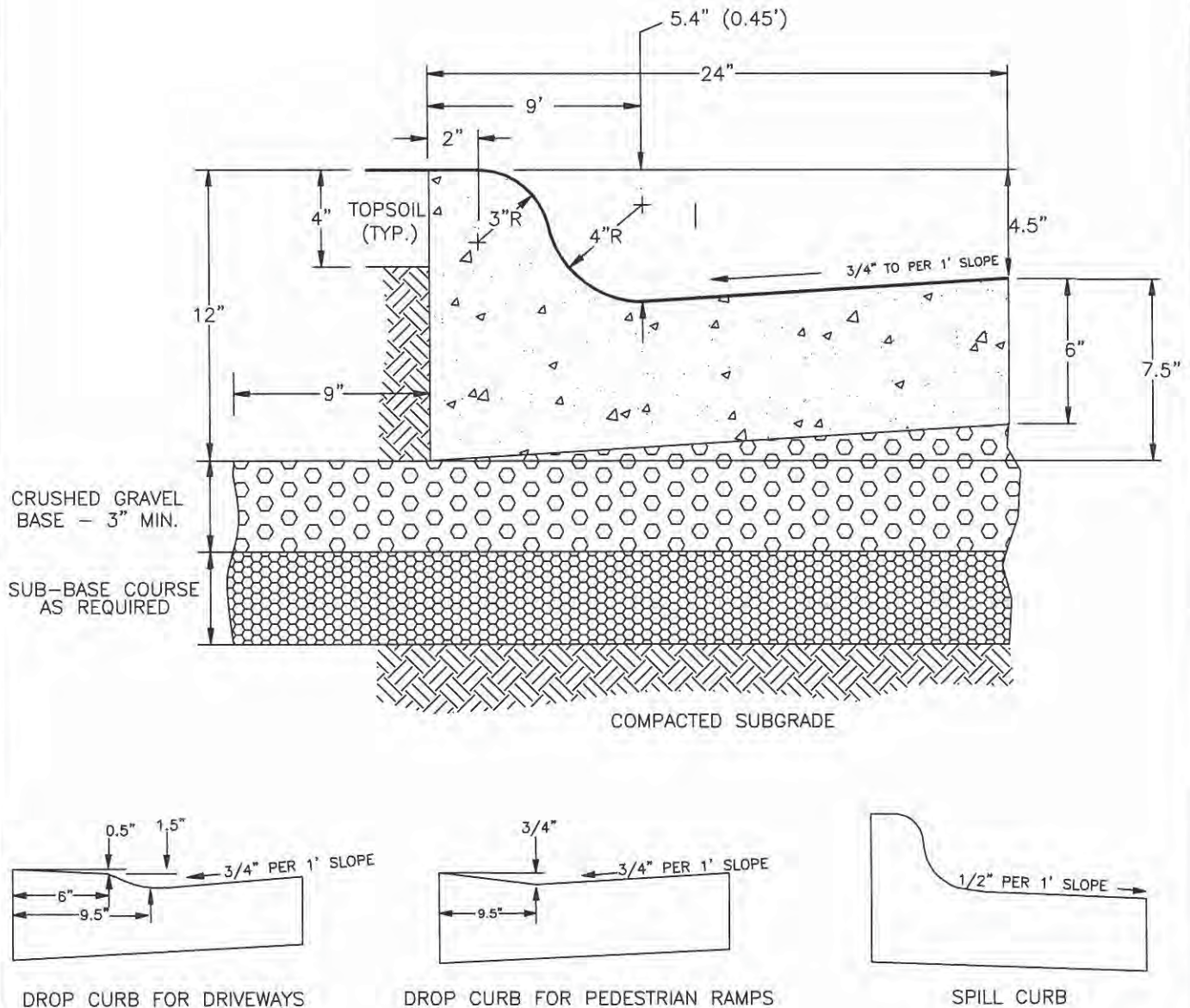
G. ROADWAY SPECIFICATIONS

Following are the requirements of the minimum roadway surfacing standards:

Surfacing. The pavement thickness design will be based on the current AASHTO Guide for Design of Pavement Structures, or the current Asphalt Institute Manual Series No. 1 (MS-1) for thickness design. A Pavement Design Report, based upon specific site soil data and design-year traffic loading conditions, prepared by a Professional Engineer, or other qualified professional approved by the City Engineer, shall be submitted to the City Engineer for approval prior to plan and specification submittal if using the self-certification process or with the plans and specifications if using the standard process. The design shall be based on at least a 20-year performance period traffic volume; however, the minimum design lane Equivalent 18,000-lb Single Axle Load (ESAL) used in the pavement design shall not be less than 50,000-ESAL. The minimum asphalt pavement thickness for any new local roadway shall be three (3) inches. The minimum asphalt pavement thickness for any new collector or arterial roadway shall be four (4) inches. A



REV. JAN 2011



NOTES:

1. Subgrade or base course compaction shall conform to section 02230 (M.P.W. Specs., 1996 ed.)
2. Contraction joints shall be placed at 10' intervals and shall have a minimum depth of 3/4" and minimum width of 1/8".
3. 1/2" expansion joint material shall be placed at all P.C.s, P.T.s, curb returns and at not more than 300' intervals. The expansion material shall extend through the full depth of the curb and gutter.
4. No curb and gutter shall be placed without a final form inspection by the City Engineer or his representative.
5. Concrete shall be Class M-4000.
6. Crushed gravel base shall meet the requirements of Section 02235 (MPW SPECS, 2003 ed.) For curb and gutter replacement projects, washed rock may be used for the gravel base.

CITY OF BOZEMAN STANDARD DRAWING	SCALE: NONE	INTEGRAL CONCRETE CURB & GUTTER	NO. 02528-1 Revised Mar. 2006
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- e. All crosswalk signs and advance crosswalk signs shall have a fluorescent yellow green background.
- 4. All signs shall comply with the “Standard Highway Signs” book (FHWA).
- 5. Street name signs for publicly-maintained roadways shall consist of white letters on a green background. Street name signs for privately-maintained roadways shall consist of white letters on a blue background.

I. MONUMENTATION

- 1. Monuments in monument boxes shall be provided in new or reconstructed streets at all section corners, quarter corners, and sixteenth corners.

J. LIGHTING

The design Engineer shall consider the need for roadway lighting in the development of plans for any new or reconstructed roadways. Illumination shall be provided at all street intersections on collector and arterial streets, and for any roadway with a raised median.

All roadway lighting shall be designed in accordance with the “American National Standard Practice for Roadway Lighting” (ANSI/IESNA RP-8-00).

K. BIKE LANES/PATHS

All bike lanes/paths shall be designed in accordance with the “Guide for the Development of Bicycle Facilities” (AASHTO, latest edition). Bike lanes shall be marked and signed in accordance with the MUTCD.

IV. ROADWAY DESIGN AND TECHNICAL CRITERIA

A. GENERAL.

This section sets forth the minimum design and technical criteria and specifications to be used in the preparation of all roadway plans. All roadway plans should also be designed in conformance with MPWSS; City of Bozeman Modifications to MPWSS; Americans With Disabilities Act; and City of Bozeman Sidewalk Policy.

B. SIDEWALKS, CURBS AND GUTTERS AND DRIVEWAYS

1. Roadway typical sections are detailed in Figure A-1 in the Appendix of this Policy. Roadway typical sections shall conform to conditions of approval for the project.
2. Concrete sidewalks shall be constructed on both sides of all roadways unless otherwise approved by action of City Commission. Sidewalks shall be 6-inches thick across driveways, and 4-inches thick elsewhere. Sidewalk design and construction shall be in accordance with the "City of Bozeman Sidewalk Policy".
3. All sidewalks shall have a minimum width of five (5) feet, except the minimum width shall be ten (10) feet in the central business district. All sidewalks that are to be publicly-maintained and all sidewalks along arterial streets shall have a minimum width of six (6) feet and shall be 6-inches thick reinforced concrete. Publicly-maintained sidewalks are sidewalks along all parks, and any public facilities or city-owned structures which are anticipated to be maintained by the City of Bozeman.
4. Integral curb and gutter shall be used on all roadways.
5. Pedestrian ramps shall be installed at all intersections and at certain mid-block locations for all new construction or reconstruction of curb and sidewalk. Pedestrian ramps shall be constructed in accordance with City of Bozeman Standard Drawings and Americans with Disabilities Act (ADA) requirements. Pedestrian ramps may be shown at all curb returns or called out by a general note on the development plans.
6. Guardrails may be required in certain situations. Guardrails shall be designed and constructed in accordance with AASHTO Standards or as directed by the City Engineer.
7. Drop-curbs for driveways may only be installed with the initial curb construction when the final building locations have been determined. Driveway locations shall conform to Section 18.44.090, BUDO.

8. Curb transitions for curb bulbs shall be accomplished using 35' minimum radius curves to achieve the desired pavement narrowing. All curb bulbs shall be adequately marked with flexible roadway delineators and yellow curb paint as necessary. The minimum curb bulb throat width is 24 feet (back of curb to back of curb).

C. DRAINAGE

Drainage systems shall be designed in accordance with these Design Standards and Specifications, Section II, Drainage Policy. Development plans, including a drainage report, for the drainage system are required for concurrent review with, and shall be considered part of roadway design.

1. Crosspans. Crosspans (valley gutters) shall be constructed in accordance with City of Bozeman Standard Drawings. Crosspans are not allowed across collector or arterial roadways, nor are they allowed on roadways with storm sewer systems.

Crosspans may be used parallel with collector or arterial roadways to convey storm runoff across residential roadways. The use of crosspans elsewhere is discouraged, and will only be allowed after all other alternatives have been investigated.

2. Inlets:
 - a. Inlets shall be located to intercept the major curb flow at intervals sufficient to ensure the depth of flow in the curb line is a maximum of 0.15' below the top of curb. This will result in a maximum spread width of approximately 9.5'. Inlets should be aligned with lot lines wherever possible.
 - b. Inlets shall also be installed to intercept cross-pavement flows at points of transition in super elevation. Due to the presence of pedestrian ramps, inlets are not allowed in the curb return, but will be located at the tangent points of the curb returns.
 - c. All inlets within the public right-of-way, or to be maintained by the City of Bozeman, shall be constructed in accordance with City of Bozeman Standard Drawings.
3. Cross Slope : Except at intersections, or where super-elevation is required, roadways shall be level from top of curb to top of curb and shall have a three (3) percent crown as measured from centerline to lip of curb, or lip of median curb to lip of outside curb on roadways with raised center islands. Parabolic or curve crowns are not allowed. Maximum pavement cross slope allowed is

2011 STREET IMPROVEMENTS - bid opening 05/24/11										
				Engineer's Estimate		Knife River		Big Sky Asphalt		
Item	Description	Unit	Quantity	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	
Schedule 1										
101	Cationic Emulsified Asphalt in Place	Gal	8,500	\$2.80	\$23,800.00	\$ 2.55	\$ 21,675.00	\$ 2.32	\$ 19,720.00	
102	Seal Coat Aggregate 3/8" Gradation	Ton	340	\$48.00	\$16,320.00	\$ 59.50	\$ 20,230.00	\$ 57.00	\$ 19,380.00	
103	Cold Milling of Existing Pavement 2" depth	S.Y.	18,650	\$2.60	\$48,490.00	\$ 2.00	\$ 37,300.00	\$ 3.03	\$ 56,509.50	
104	Hot Mix Asphalt Surface Course Type B	Ton	2,930	\$65.00	\$190,450.00	\$ 61.50	\$ 180,195.00	\$ 61.29	\$ 179,579.70	
105	Striping - white epoxy	Gal	71	\$90.00	\$6,390.00	\$ 196.00	\$ 13,916.00	\$ 222.09	\$ 15,768.39	
106	Words & Symbols - white epoxy	Gal	6	\$225.00	\$1,350.00	\$ 309.00	\$ 1,854.00	\$ 423.16	\$ 2,538.96	
107	Interim pavement markings	LS	LS	\$2,500.00	\$2,500.00	\$ 8,497.00	\$ 8,497.00	\$ 9,846.70	\$ 9,846.70	
108	Traffic Control	LS	LS	\$20,000.00	\$20,000.00	\$ 17,000.00	\$ 17,000.00	\$ 17,500.00	\$ 17,500.00	
	Schedule 1 - Total Base Bid				\$309,300.00		\$ 300,667.00		\$ 320,843.25	
Schedule 2										
201	Cationic Emulsified Asphalt in Place	Gal	16,650	\$2.80	\$46,620.00	\$ 2.55	\$ 42,457.50	\$ 2.32	\$ 38,628.00	
202	Seal Coat Aggregate 3/8" Gradation	Ton	668	\$55.00	\$36,740.00	\$ 59.50	\$ 39,746.00	\$ 57.00	\$ 38,076.00	
	Schedule 2 - Total Base Bid				\$83,360.00	\$	82,203.50	\$	76,704.00	
Schedule 3										
301	Cationic Emulsified Asphalt in place	Gal	10,130	\$2.80	\$28,364.00	\$ 2.55	\$ 25,831.50	\$ 2.32	\$ 23,501.60	
302	Seal Coat Aggregate 3/8" Gradation in place	Ton	408	\$55.00	\$22,440.00	\$ 59.50	\$ 24,276.00	\$ 63.12	\$ 25,752.96	
	Schedule 3 - Total Base Bid				\$50,804.00	\$	50,107.50	\$	49,254.56	
	TOTAL BASE BID				\$444,064.00	\$	432,978.00	\$	446,801.81	
	3% bid contingency									

Bozeman, MT Snow Ordinance

Sidewalk repair and maintenance - §12.20.035 BMC

According to §12.20.035 of the Bozeman Municipal Code, all property owners and/or property managers are required to maintain or repair all sidewalks adjacent to their property. Property owners/managers will be liable for any damages to people or property caused by their failure to maintain or replace damaged sidewalks. The City may notify property owners/managers, in writing, that sidewalk repairs are necessary on their property. Property owners/managers will then have thirty (30) working days from receipt of the notice to repair or replace the sidewalk. If the repairs are not made at the end of 30 days, the City may have the sidewalk replaced at the expense of the owner/manager. If the property owner/ manager does not reimburse the City for the cost of repairs, the City may put a lien on the lot and the case will be turned over to the City Attorney's Office for prosecution.

All new or replaced sidewalks must be inspected by the City Engineer's Office. To schedule an inspection, please call 582-2280.

Sidewalk snow removal - §12.24.020 BMC

There's an old joke about life in Montana. It goes something like this: "There are only two seasons in Montana....nine months of winter and three months of relatives." That may not be entirely true, some relatives come for the skiing, too. If you have moved here from a warmer climate, you will want to invest in a snow shovel or snow blower. Snow accumulations of six or more inches have been recorded in Bozeman as late as mid-June and as early as the end of August.

The City Engineer's Office is charged with administering the City's sidewalk snow removal program. One part-time, seasonal employee is hired to inspect city sidewalks for compliance with City Ordinance 1171 and 1529. Sidewalks are inspected after each snow storm that produces a significant snowfall, with priority given to sidewalks in business districts with high pedestrian traffic. Sidewalks in business districts are required to clear snow by 9:00am of the next business day or by 12:00pm of the next non-business day, or within four (4) business hours of any snow or ice accumulation, whichever is sooner. Residential sidewalks must be cleared of snow and ice within 24 hours of any accumulation. A Courtesy Notice will be issued at business and private properties that are not in compliance with the ordinances. Owners will have the remainder of the day to clear the sidewalk. If the sidewalk is not cleared when the inspector returns, the City will contract to have the walk cleared and the property owner will be billed for the cost of the work, plus a penalty fee.

Rental Properties: It is the responsibility of the property owner or property manager of a rental property to provide snow removal from sidewalks adjoining a rental property. The owner may either contract with a snow removal company or may require the tenant to clear sidewalks. If you are an owner of a rental property, you should be aware of your responsibility to provide for sidewalk snow removal and see that it is being done. If you are a tenant, you should be aware whether you have assumed that responsibility as part of your rental agreement.

6B Street Maintenance Division Snow and Ice Control Plan

Vacant Lots: Property owners of vacant lots with sidewalks are required to keep the sidewalks clear. In these cases, it is not possible for the sidewalk snow removal inspector to leave a Courtesy Notice. However, that does not relieve the property owner of the responsibility for maintaining a cleared sidewalk.

Absentee Owners: If you own property in Bozeman, but do not live here, you may want to hire a local property manager to see to it that the requirements of sidewalk snow removal are being met.

C

APPENDIX C: FORT COLLINS, COLORADO

Appendix C: City of Fort Collins, Colorado

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Financial Services
Purchasing Division
215 N. Mason St. 2nd Floor
PO Box 580
Fort Collins, CO 80522

970.221.6775
970.221.6707
fcgov.com/purchasing

INVITATION TO BID
6127 Streetscape Maintenance Services
BID OPENING:3:00 P.M. (our clock), December 12, 2008

The City Of Fort Collins is requesting bids for annual mowing, trimming, irrigation repair, weed control and other work as needed in City owned medians and streetscapes.

Sealed bids will be received and publicly opened at the office of the Director of Purchasing and Risk Management, PO Box 580, 215 North Mason St., 2nd floor, Fort Collins, Colorado 80522, at the time and date noted on the bid proposal and/or contract documents. If delivered, they are to be sent to 215 North Mason Street, 2nd Floor, Fort Collins, Colorado 80524. If mailed, the address is P.O. Box 580, Fort Collins, 80522-0580.

Bids must be received at the Purchasing Office prior to 3:00 p.m. (our clock), December 12,2008

Technical questions concerning the scope of the bid should be directed to Project Manager Steve Lukowski (970) 416-2063 or slukowski@fcgov.com.

Questions regarding bid submittal or process should be directed to John Stephen, CPPO, Senior Buyer (970) 221-6777 or jstephen@fcgov.com.

A pre-bid meeting is scheduled for 10:00 am December 2, 2008 at 215 N. Mason, Conference Room 2A, Fort Collins, CO.

A copy of the Bid may be obtained as follows:

1. Download the Bid from the Purchasing Webpage, Current Bids page, at:
<http://fcgov.com/eprocurement>
2. Come by Purchasing at 215 North Mason St., 2nd floor, Fort Collins, and request a copy of the Bid.

Special Instructions

All bids must be properly signed by an authorized representative of the company with the legal capacity to bind the company to the agreement. Bids may be withdrawn up to the date and hour set for closing. Once bids have been accepted by the City and closing has occurred, failure to enter into contract or honor the purchase order will be cause for removal of supplier's name from the City of Fort Collins' bidders list for a period of twelve months from the date of the opening. The City may also pursue any remedies available at law or in equity. Bid prices must be held firm for a period of forty-five (45) days after bid openings.

Submission of a bid is deemed as acceptance of all terms, conditions and specifications contained in the City's specifications initially provided to the bidder. Any proposed modification must be accepted in writing by the City prior to award of the bid.

1C City of Fort Collins Invitation to Bid for Streetscape Maintenance

Only bids properly received by the Purchasing Office will be accepted. All bids should be clearly identified by the bid number and bid name contained in the bid proposal.

No proposal will be accepted from, or any purchase order awarded, to any person, firm or corporation in default on any obligation to the City.

Bids must be furnished exclusive of any federal excise tax, wherever applicable.

Bidders must be properly licensed and secure necessary permits wherever applicable.

Bidders not responding to this bid will be removed from our automated vendor listing for the subject commodities.

The City may elect where applicable, to award bids on an individual item/group basis or on a total bid basis, whichever is most beneficial to the City. The City reserves the right to accept or reject any and all bids, and to waive any irregularities or informalities.

Sales prohibited/conflict of interest: no officer, employee, or member of City Council, shall have a financial interest in the sale to the City of any real or personal property, equipment, material, supplies or services where such officer or employee exercises directly or indirectly any decision-making authority concerning such sale or any supervisory authority over the services to be rendered.

This rule also applies to subcontracts with the City. Soliciting or accepting any gift, gratuity, favor, entertainment, kickback or any items of monetary value from any person who has or is seeking to do business with the City of Fort Collins is prohibited.

Freight terms: unless otherwise noted, all freight is F.O.B. Destination, Freight Prepaid. All freight charges must be included in prices submitted on proposal.

Discounts: any discounts allowed for prompt payment, etc., must be reflected in bid figures and not entered as separate pricing on the proposal form.

Purchasing restrictions: your authorized signature of this bid assures your firm's compliance with the City's purchasing restrictions. A copy of the resolutions is available for review in the Purchasing Office or the City Clerk's Office. Request Resolution 91-121 for cement restrictions.

Collusive or sham bids: any bid deemed to be collusive or a sham bid will be rejected and reported to authorities as such. Your authorized signature of this bid assures that such bid is genuine and is not a collusive or sham bid.

Bid results: for information regarding results for individual bids send a self-addressed, self-stamped envelope and a bid tally will be mailed to you. Bid results will be posted in our office 7 days after the bid opening.

James B. O'Neill II, CPPO, FNIGP
Director of Purchasing and Risk Management

1C City of Fort Collins Invitation to Bid for Streetscape Maintenance

BID #6127 STREETSCAPE MAINTENANCE SERVICES

BID OPENING: December 12, 2008, 3:00p.m., (our clock)

WE HEREBY ENTER OUR BID FOR THE CITY OF FORT COLLINS REQUIREMENTS FOR STREETSCAPE MAINTENANCE SERVICES PER THE BID INVITATION AND ANY REFERENCED SPECIFICATIONS:

The City Of Fort Collins is requesting bids for annual mowing, trimming, irrigation repair, weed control and other work as needed in City owned medians and streetscapes. This is a one year agreement and at the option of the City, the Agreement may be extended for additional one year periods not to exceed four (4) additional one year periods.

BID SCHEDULE

Contract will be awarded on totals of Section A-F plus labor cost.

Streetscape Maintenance

Section A	\$ _____
Section B	\$ _____
Section C	\$ _____
Section D	\$ _____
Section E	\$ _____
Section F	\$ _____
325 Man Hours x Labor Cost	\$ _____
Grand Total	\$ _____

Extra Labor Cost/Man Hour \$ _____

FIRM NAME _____
Are you a Corporation, Partnership, DBA, LLC, or PC

SIGNATURE _____ Printed _____

ADDRESS _____

PHONE/FAX # _____

E-MAIL _____

CONTRACTOR QUALIFICATIONS

1. GENERAL

1. The City of Fort Collins wishes to hire a professional and experienced Contractor. The following items must be submitted with the bid package and will be reviewed as an integral part of the selection process and will have a bearing on the award.
2. Bidders shall supply the following information:
 - a. Company name, address, phone number, fax number.
 - b. Principal owners names and addresses.
 - c. Qualifications of owners, including experience (minimum of last five years with same company name), duties, certifications, schooling, and other pertinent data.
 - d. Qualifications of crew chiefs with number of years experience, number of years of supervisory experience, training, certifications, and specialties.
 - e. Qualifications of other permanent crew members.
 - f. Staff size estimated for this contract and break out of crews.
 - g. Current equipment list with age of equipment. A list of equipment to be purchased if awarded this contract.
 - h. A list of five references of past work, one per year desirable over the last five years. List of similar work within last five years (municipal, county, work desirable).
 - i. Draft a schedule (brief) for work to be done in the month of July 2009 under this contract.
 - j. Other major work that is scheduled for Contractor for 2009.
 - k. Other types of services that may be used for this project or other City work (explain).
 - l. A short written description of the Contractor motivation for the project and what enhanced service the City would receive as a result of the contract being awarded to your firm.

SPECIFICATIONS

1.0 GENERAL

1.1 SCOPE

Complete landscape maintenance of designated areas as specified herein. During and at the end of the maintenance period, all plant material shall be in a healthy, growing condition. The Contractor shall provide all equipment, labor, and materials necessary for performing landscape maintenance and irrigation services according to the following specifications.

1.2 QUALITY OF WORK

All work shall be performed in accordance with the best landscape maintenance practices and irrigation management practices as per ALCC Best Management Practices and Green Co Best Management Practices.

1.3 LOST AND FOUND ARTICLES

The Contractor shall insure that all articles found by his employees while performing duties under this contract are turned in to the Project Manager.

1.4 CONTRACTOR RESPONSIBILITY FOR WORK

The Contractor shall be responsible for all damages, losses or injuries that occur as a result of the fault or negligence of said Contractor or his employees in connection with the performance of this work.

1.5 LOCAL OFFICE

The Contractor shall maintain a local office capable of receiving messages and contacting a responsible representative of the contractor during normal working hours. A local office is one that is a toll free call from Fort Collins. Office must have a FAX machine capable of sending and receiving. Contractor shall have a mobile phone for contact with the Project Manager during normal working hours.

1.6 PERSONNEL

The Contractor shall furnish sufficient supervisory and working personnel capable of promptly accomplishing to the satisfaction of the City and on schedule all work required under this contract during regular and prescribed hours. The Contractor and his employees shall conduct themselves in a proper and efficient manner at all times. They shall cause the least possible annoyance to the public.

The City may require the Contractor to remove from the work site any employee(s) deemed careless, incompetent, or otherwise objectionable, whose continued employment on the job is considered to be contrary to the best interests of the City.

The Contractor shall have competent supervisors, who may be working supervisors, on the job at all times work is being performed, who are capable of discussing matters pertaining to this contract with the Project Manager. Adequate and competent supervision shall provide for all work done by the contractor's employees to ensure accomplishment of high quality work, which will be acceptable to the Project Manager.

Each Contractor crew shall have at least one English-speaking crew chief able to translate directions to the remaining crewmembers.

1.7 COMPANY IDENTIFICATION

The employees shall wear clothing that identifies them as employees of the Contractor's company at all times they are working under this contract. Company vehicles shall have a company-identifying marker prominently displayed.

1.8 SUBCONTRACTORS

All persons engaged in the work will be considered employees of the Contractor. The Contractor shall be held directly responsible for the work of all employees.

1.9 REPAIRS TO EXISTING FACILITIES

All portions of existing structures, facilities, or equipment including irrigation systems, which are damaged or altered in any way, as a result of the Contractor's performance shall be repaired or replaced to a like new condition. The Contractor at no cost to the City shall perform all work of this kind. Repairs shall be made on the day of damage or alteration, unless otherwise directed by the City.

1.10 VANDALISM

Existing structures, facilities, or equipment (including irrigation systems) which are damaged or altered in any way, including acts of God, vandalism, vehicular damage, theft, or other mysterious damages that are not a result of the Contractor, shall be

repaired at City expense by the Contractor on a time and materials basis. This does not include any irrigation riser and nipples that shall be repaired as routine maintenance. The Contractor shall submit a weekly report of any damages that will be billed to the City.

1.11 SAFETY REQUIREMENTS

All work performed under this contract shall be in such a manner as to provide maximum safety to the public and where applicable comply with all safety standards required by OSHA. The Project Manager reserves the right to stop the Contractor or his crews when unsafe or harmful acts are observed or reported relative to the performance of work under this contract.

1.12 HAZARDOUS CONDITIONS

The City will be responsible for all hazards in the contract areas that are not a result of the Contractor's work. The City will not be responsible for hazards created by the negligence or omissions of the Contractor. Any hazardous condition noted by the Contractor, which is not a result of his work, shall be immediately reported to the Project Manager at 221-6365 or the Parks Division at 221-6660.

1.13 TRAFFIC CONTROL

The Contractor shall conduct the work at all times in a manner that will not interfere with normal pedestrian traffic on adjacent sidewalks. Interference with vehicular traffic shall be in accordance with the City's traffic control policies and regulations.

1.14 MAINTENANCE PERFORMANCE INSPECTIONS

The City will inspect all areas under this contract for adherence to the specifications. Any deficiencies or deviations in the work will be submitted to the Contractor for immediate correction. See Work Evaluation Standards, Exhibit B.

1.16 PAYMENT PROCESS

The total bid will be divided by the number of months in the contract. Monthly billing will then be based on the contract amount divided by the total number of months.

The Contractor will be paid monthly for work performed satisfactorily under this contract. Within the first five days of the month, the contractor shall submit a detailed report of maintenance performed in the prior month. The report shall include (but not limited to) the following information: number of complete mowings, number of complete irrigation inspections, schedule changes, major work to be performed in the coming month, and any other pertinent information. The use of pesticides or fertilizations shall be noted as to date, time, area and what material was used. This report shall be accompanied by a billing in accordance with the contract price for the work performed and shall become the basis for payment. The City may withhold payment to such extent as may be necessary to protect the City from loss due to work required in the specifications which is defective, inadequate, incomplete or not performed.

1.17 SCHEDULING OF WORK

The Contractor shall accomplish all normal landscape maintenance required under this contract between the hours of 7:00 a.m. and 6:00 p.m., Monday through Saturday. No maintenance functions that generate excessive noise shall be performed before 8:00 a.m. in residential areas (i.e. mowing).

The contractor must also have the ability to respond to an urgent call within 45 minutes or less of receiving the call.

The Contractor shall establish a schedule of routine work to be followed in the performance of this contract. A copy of this schedule shall be provided to the City at the pre-work meeting and updated with the monthly submittal.

2.0 IRRIGATION

2.1 GENERAL

Irrigation shall be accomplished by the use of automatic sprinkler systems.

2.2 TIME OF OPERATION

The automatic sprinkler systems shall operate between the hours of 10:00 p.m. and 7:00 a.m. only. System checks may be run during the day and time shall be kept to a minimum.

No make up watering will be allowed during the day. Newly planted sod or seed may be watered up to twice during the day, but only with irrigation zones needed. During periods of drought, predetermined city schedules may take precedence.

2.3 WATER APPLICATION RATES

The programming of all irrigation controllers shall be scheduled by a Certified Irrigation Technician with one or more of the following certifications: "Associated Landscape Contractors of Colorado" CLT-Irrigation, "Irrigation Association", Landscape Water Auditor, or "Irrigation Association" Certified Irrigation Designer. The irrigation controllers shall be adjusted monthly to meet monthly ETs (evaporation transpiration) averages.

Turf shall be irrigated to maintain horticulturally acceptable growth and color while encouraging deep rooting. Trees and shrubs shall be watered to prevent wilting and color loss. Water shall be applied so that runoff is avoided and applied to match the needs of the turf, tree or shrub bed being irrigated. Daily watering shall be avoided, every third day irrigation is recommended. Turf that shows signs of drought stress (foot printing), wilting or browning shall receive immediate attention. Any loss of turf shall require resodding at the Contractor's expense. The Contractor shall submit a scheduling report with scheduling criteria and each controller's operating schedule.

Water use on turf areas shall be monitored and excessive water use as determined by the Project Manager shall be at the Contractor's expense.

2.4 TREE AND SHRUB BED IRRIGATION

Trees shall be watered so that they receive 40 gallons of water a week during May, June, July, August and the first two weeks of September. Shrubs shall receive 5 gallons of water per week during the same time frame. Schedules may need to be adjusted at the request of the Forestry Division. Mature areas that have irrigation systems may not have this requirement, at the discretion of the Project Manager.

2.5 WATER CONSERVATION AND RESTRICTIONS

Watering schedules must meet restrictions set forth by the City of Fort Collins Utilities. Any fines or penalties due to failure to follow watering restrictions will be the responsibility of the Contractor. This is even more important in times of drought.

2.6 OPERATION OF AUTOMATIC IRRIGATION CONTROLLERS

The Contractor shall protect the security of irrigation controllers by keeping the controller cabinet doors locked at all times. Any stolen or vandalized controllers as a result of unlocked cabinets shall be replaced at Contractor's expense. Remote control and hand held programmers shall be protected from theft and shall be replaced at Contractor's expense in case of loss or damage. Care should be exercised in the operation of automatic controllers. Any defective or nonfunctioning controller shall be reported to the Project Manager.

2.7 ROUTINE SYSTEM MAINTENANCE

The contractor shall perform routine maintenance on the sprinkler system components on an every week to ten (10) day cycle. Routine maintenance shall include the following maintenance tasks:

1. Unplugging components i.e. valves, heads, piping, etc. rendered nonfunctional due to rock, rust, debris, etc. Making all routine arc adjustments for part circle heads to promote optimum coverage.
2. Check controller programming and rescheduling as needed (refer to 2.3 water application rates).
3. Repairing/replacing all broken risers and nipples. This applies to all risers and nipples regardless of reason for failure.
4. Replacing batteries in controllers each spring and as needed.

Any replacement equipment or parts must be of the same brand, model number, nozzle size and new unless authorized by the Project Manager. The Contractor shall maintain all sprinkler systems in such a way as to insure proper coverage and full working capability.

2.8 SPRINKLER SYSTEM REPAIR

Sprinkler system repair shall consist of those operations not covered in routine sprinkler system maintenance. When the Contractor discovers a need for repair; he shall make repairs immediately. For onetime repairs that exceed \$200.00, the Contractor shall notify the Project Coordinator for approval.

The Contractor shall make an itemized report on the monthly billing that list: man-hours spent, parts used, location (closest address) and reason for each repair. When the Contractor performs the repair work, it shall be charged at the per hour rate on the bid form plus materials at contractor price. City may request invoices from supply house to verify contractor pricing.

2.9 SPRINKLER SYSTEM SPRING ENERGIZATION

The Project Manager will schedule water turn-on through the Water Utility. Contractor is not to turn any curb stop or street water valve. The Contractor shall turn on each sprinkler system at the meter. Mainlines shall be filled slowly and each zone activated by use of the automatic controller visually inspecting each head for performance and coverage. Repairs will be made prior to system being used for irrigation purposes. Visually inspect each backflow device for proper operation.

2.10 SPRINKLER SYSTEM WINTERIZATION

The Project Manager will schedule water turn-off through the Water Utility. The Contractor shall turn off the sprinkler system at the meter. Air shall be forced through the system via the blow out tubes on the systems. Air shall pass through

each system expelling all water. Care shall be taken when blowing out, as excessive pressure will damage the sprinkler system. It is recommended that air pressure does not exceed normal irrigation system operation pressures. Backflow device ball valves should be left in a partial open or partial closed position to prevent damage from trapped water that will freeze. A second blow out may be necessary on larger systems. Contractor will be responsible for any freeze damage. This should be scheduled no later than October 31 (smaller systems and backflow devices will freeze rapidly). Do not wrap backflow devices with insulation.

3.0 MOWING

3.1 IRRIGATED TURF GRASS MOWING

All lawn areas included in this contract shall be mowed with either power reel-type or rotary mowers. The mower blades or reels shall be sharpened and maintained so as to provide a smooth, even cut without tearing. The cutting adjustment will provide a uniform, level cut without ridges or depressions. Mowing height shall be set at 2 ½" - 3".

Mowing shall be performed so that no more than one-third (1/3) of the grass blade is removed during each mowing in returning the grass to the accepted height or one time per week whichever is most often. Mowing may be in excess of once per week during fast growth periods.

Any damage to turf, trees, shrubs, sprinkler system components, buildings, or other objects during trimming or mowing operations shall be repaired at the Contractor's expense.

3.2 MOWING FREQUENCY IRRIGATED TURF

All irrigated turf areas (including areas where only trees are irrigated) will be mowed on a weekly basis or when a mowing would cut one third of the grass blade, whichever is most often.

3.3 MOWING FREQUENCY NONIRRIGATED TURF

Mowing shall be performed depending on the growth of the turf. This turf will grow rapidly in the early season and go dormant with the heat of summer and may pick up again in the cool of fall. The last mowing should be timed to either pick up or mulch the remaining leaves of the season. The Contractor should plan on 12 mowings scheduled approximately as follows:

April	#1
May	#4
June	#3
July	#1
August	#1
September	#1
October	#1
TOTAL	#12

4.0 EDGING AND TRIMMING

4.1 TURF GRASS TRIMMING

After each mowing, the grass around all obstructions (such as vacuum breakers,

fences, controllers, curbs, trees, etc.) will be trimmed to match the height of the open turf areas. Trimming shall be accomplished around irrigation system sprinkler heads as necessary to permit maximum water coverage by the system.

4.2 WEED EATER CARE

Extreme care shall be utilized when trimming around trees with any trimming device. Any marks, chipped bark, or girdling by a string trimmer, mower or other device will result in a penalty assessed by the Project Manager. The use of herbicides (i.e. Roundup) around the tree trunks (no wider than eighteen (18) inches from the base) is encouraged.

A representative from the Forestry Division is available to meet with Contractor personnel to discuss turf trimming around trees and its effects on trees. The Project Manager will discuss the resulting penalties with the Contractor.

5.0 CLIPPINGS REMOVAL

5.1 CLEANUP

Any visible grass clippings left on sidewalks, streets, or turf areas shall be removed from the hard surfaces and excess on the turf shall be removed or spread to eliminate dead spots from heavy turf clippings. This shall be done after each mowing and trimming.

5.2 REMOVAL

If clippings are picked up due to heavy clumps they shall be removed to an approved site, preferably for mulching. However, it is recommended that grass catchers not be used as it causes loss of turf nutrients.

6.0 WEED CONTROL

6.1 WEED CONTROL IN TURF AREAS

All landscaped areas within the specified maintenance areas shall be kept free of weeds. (WEEDS=Any plant material not intended for placement in the landscape.) Weeding may be done manually or by the use of selective herbicide (2-4 D) and or pre-emergent. The use of any restricted herbicides or soil sterilant is prohibited. The Contractor shall use extreme care in the use of herbicides so as not to damage desirable plants or the health of other humans or animals. The Contractor shall post all areas with flags to indicate that a herbicide application has taken place (include the company name and contact phone number). The flags shall be picked up three working days after the herbicide application. Observation of the effectiveness of the herbicide shall be monitored at this time. The Contractor shall follow any and all State, County or local regulations pertaining to herbicide application and use, or any weed ordinances that may be in effect.

The Contractor will replace any desirable plants or trees damaged beyond recovery as a result of herbicide use. Herbicide use should not take place within the drip line of any tree. Herbicide applications should be made on a timely basis to avoid seed head development. Only one broadleaf weed application will be required per year for non-irrigated turf grass. All irrigated turf grass shall be on an as needed basis. All herbicide applications shall be recorded for the monthly report.

6.2 WEED CONTROL IN SHRUBS AND SHRUB BED AREAS

Weed growth in shrubs and shrub beds shall be controlled on a minimum monthly basis. Weeds and grass shall be removed by hand pulling only. Large mulched areas may be approved for herbicide applications. Shrub beds shall be kept weed and debris free.

7.0 OTHER TURF NEEDS

7.1 FERTILIZATION

The Contractor shall take soil samples and have them analyzed by a qualified laboratory. Based on the soil report, the Contractor shall make a written recommendation for fertilization requirements. A schedule for fertilization will be drawn up and submitted for approval of the Project Manager.

A minimum of one spring and one late fall application would be needed for irrigated turf. No fertilization will be required for non-irrigated turf or shrub beds.

8.0 LITTER, TRASH, DEBRIS AND PRUNNING

8.1 GENERAL

All areas covered under this contract shall be kept free of all trash, debris, tree limbs, branches, and other foreign matter on a weekly basis during the growth season and biweekly during the winter.

8.2 PREMOWING CLEANUP

The Contractor will remove all paper, tree branches and limbs, rubbish, or other debris from each area prior to mowing. Mowing over paper and debris is considered an unsafe and unacceptable practice.

8.3 SPRING CLEANUP

The Contractor during the first four weeks shall remove all debris, leaves, paper, branches, rubbish, etc. from all areas before any other maintenance activities commence.

8.4 FALL CLEANUP

During the term of this contract, leaves shall be the responsibility of the Contractor. Removal or approved mowing with a mulching mower (attachment) shall be the methods used to control the build up of falling leaves. The final mowing of the season shall be after 90% of leaves have fallen to promote a well cared for looking turf. Leaves must be removed from all shrub beds and areas where leaves collect on both medians and parkways.

8.5 TREE SUCKER GROWTH

Suckers shall be removed from trees as they appear. Clipping them off shall be the preferred method or as directed by Forestry Division personnel.

8.6 SHRUB PRUNNING

Shrubs and bushes shall be kept trimmed so that they hold a compact shape and do not extend outside the median line or over splash block.

8.7 TREE PRUNNING

The City shall do all tree pruning. The Project Manager shall request any trees that need to be pruned for safety of Contractor personnel through the City Forestry Division. Contractor will request all tree pruning through the Project Manager.

WORK EVALUATION STANDARDS

1.0 WORK RATING

The quality of work and performance are important to the City and reflect on the City and Contractor. To establish compliance with the specifications found in Exhibit A, the following penalties shall be used in case of insufficient performance by the Contractor. The Project Manager shall rate the quality and performance.

1.1 PENALTIES

A penalty shall be invoked when an inspection report reveals a maintenance item (i.e. mowing, trimming, sprinkler maintenance, weeding, trash pickup, etc.) was done unsatisfactorily in accordance with the standards set forth in Exhibit A. The Contractor will be given a minimum of two working days to correct the deficient work. If the work after this time period remains unsatisfactory, the following percentage of the total calculated monthly billing would be deducted as penalty:

Number of Deficient Maintenance Operations	Degree of Penalty
1	5% of monthly billing
2	10% of monthly billing
3	15% of monthly billing
4	20% of monthly billing
5 or more	25% of monthly billing

At the point of more than five (5) deficient operations, the Contractor may be found in default of the contract and removed for no cause.

Damage to trees by string trimmers or mowers will be penalized at \$25.00 per occurrence. If the project manager were notified prior to an inspection notice, the penalty would be reduced to \$10.00. Any penalties would be deducted from the next monthly billing.

1.2 PENALTY EXAMPLES

1. Example Number One

Calculated monthly price = \$8,000.00

Inspection report for June 8, 2004, shows trimming was missed or poorly done on College Avenue Frontage Road between Rutgers and Columbia. The Contractor is given two (2) working days to properly perform the work. If after this time (two working days), the work is still unsatisfactory, a penalty of 5% or \$400.00 will be deducted from the next monthly invoice.

If the work is satisfactorily performed within the two-day period, no penalty will be deducted from the monthly invoice for that period.

2. Example Number Two

Inspection report of July 15, 2004 shows that on Mountain Avenue a drink

cup was shredded by a mower and is now part of the landscape. There is a sprinkler head in the 1000 block that is spraying water into traffic while operating. The tree furthest west on the median in the 300 block has a gouge in the bark with red paint similar to the mower generally used by the Contractor on Mountain Avenue and there are mower tracks in the dirt at the base of the tree.

The Contractor is given two days to correct problems #1 and #2. However the tree damage is not repairable and a penalty of \$25 is assessed and unrecoverable.

After two days an inspection shows that the drink cup fragments have been removed but the sprinkler head is still washing cars.

A penalty of \$425.00 will be deducted from the monthly billing.

If the Contractor notifies the Project Coordinator, prior to the inspection report being faxed, about the tree damage the penalty will only be \$10.00. And the \$400.00 would still be assessed for the sprinkler.

If none of the work is done then \$825.00 will be assessed against the monthly billing.

3. Example Number Three

In example number two the drink cup was removed and the sprinkler was still washing cars after two days. The \$400.00 penalty is assessed.

An inspection report on the following week shows that the sprinkler is still washing cars and now there is a brown spot developing in front of the sprinkler in the turf.

The Contractor is given two working days to correct the problem. A follow-up inspection shows the sprinkler has been adjusted but the brown spot remains. No penalty is assessed even though the brown spot remains. If the problem is not corrected a penalty of an additional \$800.00 is assessed against the monthly billing.

1.3 NONRECOVERY OF PENALTY BY CONTRACTOR

1. Money withheld as a penalty from any monthly payment due the Contractor will be considered a forfeiture on the part of the Contractor and not recoverable.
2. The intent of this contract is to provide a well maintained landscaped with regard to the specifications. Adherence to the specifications will make it unnecessary to invoke penalties.

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1C City of Fort Collins Invitation to Bid for Streetscape Maintenance

MEDIANS/FRONTAGES/PARKWAYS

NUMBER	ADDRESS	@ (AT) or BETWEEN	MAP	STYLE	WET TURF SQ. FT.	DRY TURF SQ. FT.	WET No/Turf SQ. FT.	DRY No/Turf SQ. FT.	TOTAL SQ. FT.	Do Not Bid
SECTION A			Hardsurface							
				LM-25 Total	0	0	2,994	0	2,994	
1a	600 N. College Ave	VINE DR - WOODLAWN DR	9	HSM				1,228	1,228	x
2a	100 W. Chery St	COLLEGE AVE - MASON ST #1	9	HSM				424	424	x
3a	100 W. Chery St	COLLEGE AVE - MASON ST #2	9	HSM				424	424	x
4a	181 N. Pine St	WALNUT ST - RIVERSIDE AVE	9	HSM				1,135	1,135	x
5a	100 N. Pine St	PINE ST @ WALNUT	9	HSM				3,000	3,000	x
6a	101 N. Pine St	PINE ST @ WALNUT	9	HSM				1,125	1,125	x
7a	699 S. College Ave	@ MYRTLE	9	HSM				820	820	x
8a	500 S. Lemay Ave.	MULBERRY ST - THE RIVER	10	HSM				1,360	1,360	x
9a	800 S. Shields St.	PLUM ST - ELIZABETH ST	14	HSM				1,800	1,800	x
10a	900 S. Shields St.	ELIZABETH ST - UNIVERSITY AVE	14	HSM				1,468	1,468	x
11a	1601S. Shields St.	PROSPECT RD - HOBBIT ST #1	14	HSM				496	496	x
12a	1603S. Shields St.	PROSPECT RD - HOBBIT ST #2	14	HSM				110	110	x
13a	2500 S. Shields St..	DRAKE RD - RAINTREE DR #1	14	HSM				708	708	x
14a	2500 S. Shields St..	DRAKE RD - RAINTREE DR #2	14	HSM				1,740	1,740	x
15a	1280 W. Drake Rd	RAINTREE DR - SHIELDS ST #1	14	HSM				1,088	1,088	x
16a	1280 W. Drake Rd	RAINTREE DR - SHIELDS ST #2	14	HSM				888	888	x
17a	800 S. College Ave	PLUM ST - LOCUST ST	15	HSM				5,388	5,388	x
18a	900 S. College Ave	LOCUST ST - ELIZABETH ST	15	HSM				5,012	5,012	x
19a	1008 S. College Ave	ELIZABETH ST - GARFIELD ST	15	HSM				5,040	5,040	x
20a	1100 S. College Ave	GARFIELD ST - EDWARDS ST	15	HSM				2,720	2,720	x
21a	1500 S. College Ave	LAKE ST - PROSPECT RD	15	HSM				2,004	2,004	x
22a	100 W. Prospect Rd	RRXing - COLLEGE AVE	15	HSM				534	534	x
23a	100 E. Prospect Rd	COLLEGE AVE - REMINGTON ST	15	HSM				676	676	x
24a	1600 S. College Ave	PROSPECT RD - PARKER ST	15	HSM				2,272	2,272	x
25a	1803 S. College Ave	STUART ST - SPRING PARK DR #1	15	HSM				664	664	x
26a	1803 S. College Ave	STUART ST - SPRING PARK DR #2	15	HSM				812	812	x
27a	1901 S. College Ave	ARTHUR DR - SPRING PARK DR	15	HSM				956	956	x
28a	2210 S. College Ave	RUTGERS AVE - COLUMBIA RD	15	HSM				2,328	2,328	x
29a	2526 S. College Ave	HARVARD ST - DRAKE RD	15	HSM				5,324	5,324	x
30a	2601 S. College Ave	DRAKE RD - THUNDERBIRD DR.	15	HSM				1,940	1,940	x
31a	100 W. Drake Rd	McCLELLAND DR - COLLEGE AVE	15	HSM				1,134	1,134	x
32a	100 E. Drake Rd	COLLEGE AVE - HARVARD ST	15	HSM				1,134	1,134	x
33a	701 S. Lemay Ave.	RIVERSIDE DR - PENNOCK PL	16	HSM				1,460	1,460	x

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34a	2006 E. Prospect Rd	RRXing - TIMBERLINE RD #1	17	HSM	660	660	x
35a	2006 E. Prospect Rd	RRXing - TIMBERLINE RD #2	17	HSM	660	660	x
36a	2101 E. Prospect Rd	TIMBERLINE RD - SPECHT POINT RD.	17	HSM	1,400	1,400	x
37a	1900 E. Drake Rd	@ RRXing	17	HSM	1,380	1,380	x
38a	3400 S. Taft Hill Rd.	BRONSON ST - HORSETOOTH RD	20	HSM	2,464	2,464	x
39a	2700 S. College Ave	@ THUNDERBIRD	21	HSM	400	400	x
40a	3100 S. College Ave	SWALLOW RD - FOOTHILLS PKWY	21	HSM	3,280	3,280	x
41a	100 W. Foothills Pkwy	COLLEGE AVE - MASON ST	21	HSM	400	400	x
42a	201 W. Swallow Rd	McCLELLAND DR - RRXing	21	HSM	820	820	x
43a	201 W. Horsetooth Rd	McCLELLAND DR - MASON ST	21	HSM	1,310	1,310	x
44a	101 W. Horsetooth Rd	MASON ST - COLLEGE AVE	21	HSM	2,075	2,075	x
45a	3600 S. College Ave	HORSETOOTH RD - CREGAR DR	21	HSM	1,876	1,876	x
46a	3800 S. College Ave	CREGAR DR - BACHMAN	21	HSM	2,850	2,850	x
47a	3900 S. College Ave	BACHMAN - BOARDWALK DR	21	HSM	2,280	2,280	x
48a	4400 S. College Ave	PAVILION LN - KENSINGTON DR	21	HSM	4,200	4,200	x
49a	4500 S. College Ave	KENSINGTON DR - HARMONY RD	21	HSM	1,800	1,800	x
50a	4600 S. College Ave	HARMONY RD - PALMER DR	21	HSM	2,244	2,244	x
51a	1341 E. Horsetooth Rd	LEMAY AVE - LOCKWOOD DR	22	HSM	4,160	4,160	x
52a	2001 E. Horsetooth Rd	RRXing	22	HSM	1,380	1,380	x
53a	3301 S Timberline Rd	VERMONT DR - DANFIELD CT	23	HSM	2,660	2,660	x
54a	3401 S Timberline Rd	DANFIELD CT - HORSETOOTH RD	23	HSM	2,548	2,548	x
55a	3501 S Timberline Rd	DANFIELD CT - HORSETOOTH RD	23	HSM	1,564	1,564	x
56a	2201 E. Horsetooth Rd	TIMBERLINE RD - ARCTIC FOX DR	23	HSM	3,432	3,432	x
57a	3600 S. Shields St	HORSETOOTH RD - ARBOR AVE	20	HSM	1,440	1,440	x

Total = 104,495

Section A Bid Amount **X**

SECTION B Irrigated

1b	700 E Willox Ln	PEREGRINE RN - PEREGRINE RN (S)	10	IGF	3,330	3,330
2b	800 E Willox Ln	QUAIL RN - QUAIL RN	10	IGF	9,920	9,920
3b	800 E Willox Ln	GROUSE CIR - GROUSE CIR	10	IGF	17,940	17,940
4b	1000 E Willox Ln	PICA RN - PICA RN	10	IGF	8,080	8,080
5b	2620 S. College Ave	DRAKE RD. - THUNDERBIRD DR (E)	15	IGF	6,115	6,115
6b	2700 S. College Ave	THUNDERBIRD DR - HARVARD ST (W)	21	IGF	13,640	13,640
7b	2851 S. College Ave	HARVARD ST - SWALLOW RD (W)	21	IGF	21,560	21,560
8b	3113 S. College Ave	SWALLOW RD - FOOTHILLS PKWY (W)	21	IGF	19,113	19,113
9b	3100 S. College Ave	FOOTHILLS PKWY - FRT. of COMPASS BANK (W)	21	IGF	1,707	1,707
10b	3403 S. College Ave	NORTH of SATURN PARKING - MONROE AVE (W)	21	IGF	11,650	11,650
11b	1722 W. Mountain Ave	GRANDVIEW AVE TO BRYAN AVE	8	IGM	27,318	27,318
12b	1541 W. Mountain Ave	BRYAN AVE - FISHBACK ST	8	IGM	7,772	7,772
13b	1521 W. Mountain Ave	FISHBACK ST TO ROOSEVELT ST	8	IGM	11,832	11,832

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14b	1414 W. Mountain Ave	ROOSEVELT ST - LYONS ST	8	IGM	8,294	8,294
15b	1403 W. Mountain Ave	LYONS ST - McKINLEY ST	8	IGM	8,932	8,932
16b	1238 W. Mountain Ave	McKINLEY ST - JACKSON ST	8	IGM	11,745	11,745
17b	1217 W. Mountain Ave	JACKSON ST - SCOTT ST	8	IGM	11,542	11,542
18b	1106 W. Mountain Ave	SCOTT ST - SHIELDS ST	8	IGM	11,600	11,600
19b	1011 1/2 W. Mountain A	SHIELDS ST - MACK ST	8	IGM	15,457	15,457
20b	911 W. Mountain Ave	MACK ST - WASHINGTON ST	8	IGM	770	770
21b	802 W. Mountain Ave	WASHINGTON ST - GRANT ST	9	IGM	3,500	3,500
22b	740 W. Mountain Ave	GRANT ST - LOOMIS ST	9	IGM	3,700	3,700
23b	600 W. Mountain Ave	LOOMIS ST - WHITCOMB ST	9	IGM	11,600	11,600
24b	532 W. Mountain Ave	WHITCOMB ST - SHERWOOD ST	9	IGM	11,310	11,310
25b	400 W. Mountain Ave	SHERWOOD ST - MELDRUM ST	9	IGM	11,687	11,687
26b	330 W. Mountain Ave	MELDRUM ST - HOWES ST	9	IGM	10,788	10,788
27b	298 E. Mountain Ave	REMINGTON ST - MATHEWS ST	9	IGM	1,728	1,728
28b	300 E. Mountain Ave	MATHEWS ST - PETERSON ST	9	IGM	726	726
29b	300 Canyon Ave	MELDRUM ST - SHERWOOD ST	9	IGM	3,500	3,500
30b	200 Canyon Ave	HOWES ST - MELDRUM ST	9	IGM	3,700	3,700
31b	1280 W. Drake Rd	RAINTREE DR - SHIELDS ST	14	IGM	1,060	980 2,040
32b	701 E. Pitkin St	STOVER ST - NEWSOM ST	15, 16	IGM	7,776	7,776
33b	102 E. Columbia Rd	COLLEGE AVE - VASSAR AVE	15	IGM	6,136	6,136
34b	800 E. Pitkin St	NEWSOM ST - ELLIS ST	16	IGM	1,840	1,840
35b	1099 E. Columbia Rd	LEMAY AVE - HIAWATHA CT	16	IGM	14,535	14,535
36b	800 E. Strachan Dr	ABERDEEN CT - BALMORAL CT	22	IGM	2,600	2,600
37b	809 E. Strachan Dr	EDINBURGH CT - ABERDEEN CT	22	IGM	2,106	2,106
38b	126 Laporte Ave	COLLEGE AVE - MASON ST	9	IGM	8,930	8,930
39b	125 E. Mountain Ave	COLLEGE AVE - REMINGTON ST	9	IGM HSE	3,600	365 3,965
40b	2404 S. College Ave	COLUMBIA RD - YALE AVE	15	IGM HSE	2,220	1,850 4,070
41b	2600 S. Shields St	DRAKE RD - DAVIDSON DR	14	IGM HSE SB	477	2,583 3,060
42b	1001 W. Horsetooth Rd	CENTURY DR - SHIELDS ST	20	IGM HSE SB	1,504	161 1,665
43b	989 W. Horsetooth Rd	WINDMILL DR - CENTURY DR	20	IGM HSE SB	2,928	357 3,285
44b	801 W. Horsetooth Rd	TRADITION DR - WINDMILL DR	21	IGM HSE SB	1,672	128 1,800
45b	702 W. Horsetooth Rd	COLONY DR - TRADITION DR	21	IGM HSE SB	116	116
46b	403 W. Horsetooth Rd	MANHATTAN AVE - COLONY DR	21	IGM HSE SB	5,500	3,940 9,440
47b	300 W. Horsetooth Rd	McCLELLAND DR - MANHATTAN AVE	21	IGM HSE SB	5,500	4,064 9,564
48b	220 W. Harmony Rd	MASON ST - TRACKS - MIDDLE	21	IGM SB	3,895	3,895

Total = 377,379

SECTION C Irrigated

Section B BID AMOUNT

1c	140 Jefferson St.	COLLEGE AVE - PINE ST (PARKING LOT) (N)	9	IGP	6,000	6,000
2c	289 E. Mountain Ave	REMINGTON ST - MATHEWS ST (W)	9	IGP	3,000	3,000
3c	290 E. Mountain Ave	WALNUT ST - CHESTNUT ST (E)	9	IGP	2,730	2,730
4c	300 E. Mountain Ave	WALNUT ST - CHESTNUT ST (W)	9	IGP	1,500	1,500

1C City of Fort Collins Invitation to Bid for Streetscape Maintenance

5c	389 E. Mountain Ave	MATHEWS ST - RIVERSIDE AVE (W)	9	IGP	676	676
6c	390 E. Mountain Ave	MATHEWS ST - RIVERSIDE AVE (W)	9	IGP	690	690
7c	391 E. Mountain Ave	MATHEWS ST - RIVERSIDE AVE (E)	9	IGP	570	570
8c	100 S. Whedbee St	RIVERSIDE AVE - OAK ST (E)	9	IGP	2,100	2,100
9c	100 S. Whedbee St	RIVERSIDE AVE - OAK ST (W)	9	IGP	400	400
10c	505 E. Oak St	WHEDBEE ST - RIVERSIDE AVE (S)	9	IGP	500	500
11c	700 E Willox Ln	BAYBERRY CR - PEREGRINE RN (S)	10	IGP	2,800	2,800
12c	700 E Willox Ln	BAYBERRY CR - PEREGRINE RN (N)	10	IGP	2,808	2,808
13c	800 E Willox Ln	SHORTLEAF ST - QUAIL RN (S)	10	IGP	2,808	2,808
14c	800 E Willox Ln	PEREGRINE RN - SHORTLEAF ST (S)	10	IGP	2,856	2,856
15c	900 E Willox Ln	QUAIL RN - PTARMIGAN CT (S)	10	IGP	9,550	9,550
16c	900 E Willox Ln	GROUSE CIR - PICA RN (N)	10	IGP	5,290	5,290
17c	1100 E Willox Ln	PICA RN - LEMAY AVE (N)	10	IGP	3,750	3,750
18c	1100 E Willox Ln	PTARMIGAN CT - LEMAY AVE (S)	10	IGP	29,200	29,200
19c	1413 N. Lemay Ave	CLARK ST - WILLOX LN (W)	10	IGP	40,080	40,080
20c	1501 N. Lemay Ave.	WILLOX LN - FOREST HILLS LN (W)	10	IGP	8,370	8,370
22c	1201 S. Overland Trail	PLEASANT VALLEY RD - DITCH (E)	13	IGP	12,177	12,177
23c	1301 S. Overland Trail	WELLS FARGO - PLEASANT VALLEY RD (E)	13	IGP	20,385	20,385
24c	1320 S. Overland Trail	LAKE ST - WELLS FARGO DR (E)	13	IGP	3,500	3,500
25c	2017 W. Drake Rd	TAFT HILL RD TO YORKTOWN AVE (N)	14	IGP	7,920	7,920
26c	1300 W. Drake Rd	DUNBAR AVE - CANTERBURY DR (S)	14	IGP	23,778	23,778
27c	424 E. Elizabeth	PETERSON ST - WHEDBEE ST (SW)	15	IGP	500	500
28c	1439 S. College Ave	PROSPECT CT - COLLEGE AVE (N) Side yard of S	15	IGP	6,136	6,136
29c	2006 E. Prospect Rd	RRXing - TIMBERLINE RD (S)	17	IGP	77,220	77,220
30c	2101 E. Prospect Rd	TIMBERLINE RD - SPECHT POINT RD. (S)	17	IGP	39,750	39,750
31c	3500 S. Taft Hill Rd.	BRONSON ST - HORSETOOTH RD (E)	20	IGP	9,870	9,870
32c	3601 S. Taft Hill Rd.	HORSETOOTH RD - IMPERIAL DR (E)	20	IGP	13,545	13,545
34c	2030 W. Horsetooth Rd	GOODELL LN - TAFT HILL RD (S)	20	IGP	4,400	4,400
35c	3000 S. Shields St	ROCKY MT WAY - SWALLOW RD (E)	20	IGP	16,496	16,496
36c	3033 S. Shields St	ROCKY MT WAY - SWALLOW RD (W)	20	IGP	14,434	14,434
37c	3200 S. Shields St	SWALLOW RD - CUNNINGHAM DR (E)	20	IGP	29,600	29,600
38c	3200 S. Shields St	SWALLOW RD - CASA GRANDE BLVD (W)	20	IGP	21,760	21,760
39c	3400 S. Shields St	CUNNINGHAM DR - RICHMOND DR (E)	20	IGP	4,668	4,668
40c	3600 S. Shields St	RICHMOND DR - HORSETOOTH RD (E)	20	IGP	7,000	7,000
41c	1201 E. Horsetooth Rd	ROLLING GREEN DR - LEMAY AVE (S)	22	IGP	3,880	3,880
42c	1341 E. Horsetooth Rd	LEMAY AVE - LOCKWOOD DR (S)	22	IGP	5,280	5,280
43c	3650 S. Lemay Ave	HORSETOOTH RD - TICONDEROGA DR (E)	22	IGP	51,840	51,840
44c	3916 S. Lemay Ave	HORSETOOTH RD - TICONDEROGA DR (W)	22	IGP	72,000	72,000
45c	4200 S. Lemay Ave	WHEATON DR - TICONDEROGA DR (E)	22	IGP	24,720	24,720
46c	400 S. Timberline Rd	MULBERRY ST - LINCOLN AVE (E)	11	IGP	2,500	2,500
47c	300 S. Timberline Rd	LINCOLN AVE/TIMBERLINE RD - NORTH 1 BLOCK	11	IGP	7,980	7,980
48c	400 S. Timberline Rd	MULBERRY ST - LINCOLN AVE (W)	11	IGP	1,500	1,500

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49c	300 S. Timberline Rd	LINCOLN AVE/TIMBERLINE RD - NORTH 1 BLOCK	11	IGP	3,625	3,625
50c	500 S. Timberline Rd	TIMBERLINE RD - COUNTRYSIDE DR (W)	11	IGP	4,600	4,600
51c	500 S. Timberline Rd	TIMBERLINE RD - COUNTRYSIDE DR (E)	11	IGP	13,760	13,760
52c	600 S. Timberline Rd	COUNTRYSIDE DR - BRIDGE (E)	11	IGP	1,500	1,500
53c	1955 W. Drake	WOOD FENCE - 1925 E. DRAKE (S)	14	IGP	2,432	2,432
54c	1925 W. Drake	1925 W. DRAKE (Sedlak) - 1717 W. DRAKE (West I	14	IGP	4,960	4,960
55c	3600 S. Shields St	MT RANGE CHURCH DR WY - WABASH ST (W)	20	IGP	9,880	9,880
56c	4036 S. Shields St	FT COLLINS CITY CHURCH - N. DR. - S. DR. (E)	20	IGP	2,550	2,550
57c	5300 S. Shields St	UNDERPASS - HILDALE DR (E)	26	IGP	3,504	3,504
58c	5400 S. Shields St	HILDALE DR - BRIDGE (E)	26	IGP	24,496	24,496
59c	5400 S. Shields St	BRIDGE - FOSSIL CREEK DR (E)	26	IGP	11,295	11,295
60c	5830 S. LeMay (E)	Muirfield Wy - Fossil Creek Prky	28	IGP	8,000	8,000
61c	5900 S. LeMay (E)	Golf Course-Pheasant Dr.	28	IGP	3,300	3,300
62c	5833 S. LeMay (W)	Muirfield Wy - Fossil Creek Prky (W)	28	IGP	10,600	10,600
					713,019	
					Total = 713,019	

Section C BID AMOUNT _____
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SECTION D			Irrigated			
1d	201 N. College Ave	LAPORTE AVE - MAPLE ST #1	9	ILM	366	366
2d	700 Foxtail St	SUGARPINE ST - SHORTLEAF ST	10	ILM	2,718	2,718
3d	824 Foxtail St	SHORTLEAF ST - SITKA ST	10	ILM	8,280	8,280
4d	900 Foxtail St	SITKA ST - COULTER ST	10	ILM	4,284	4,284
5d	1000 Foxtail St	COULTER ST - MONTEREY DR	10	ILM	3,924	3,924
6d	1301 Hays St	BUCKEYE ST - PITKIN ST	10	ILM	1,080	1,080
7d	1507 Longs Peak Dr	PROSPECT RD - LAKE ST	10	ILM	2,142	2,142
8d	189 E. Horsetooth Rd	COLLEGE AVE - MITCHELL DR	21	ILM	729	729
9d	201 E. Horsetooth Rd	MITCHELL DR - JFK PKWY	21	ILM	1,102	1,102
10d	708 Whalers Wy	BOARDWALK DR - SEABOARD	30	ILM	952	952
11d	104 S. Lemay Ave	LINCOLN AVE - MAGNOLIA ST	10	ILM	12,075	12,075
12d	300 S. Lemay Ave.	MAGNOLIA ST - MULBERRY ST	10	ILM	7,784	7,784
13d	400 S. Timberline Rd	MULBERRY ST - LINCOLN AVE	11	ILM	6,277	6,277
14d	300 S. Timberline Rd	LINCOLN AVE/TIMBERLINE RD - NORTH 1 BLOCK	11	ILM	1,340	1,340
15d	2300 E. Mulberry St	TIMBERLINE RE/MULBERRY ST - WEST 1 BLOCK	11	ILM	1,500	1,500
16d	2400 E. Mulberry St	TIMBERLINE RE/MULBERRY ST - EAST 1 BLOCK	11	ILM	2,340	2,340
17d	500 S. Timberline Rd	TIMBERLINE RD - COUNTRYSIDE DR	11	ILM	3,924	3,924
18d	1100 W. Drake Rd	SHIELDS ST - DAVIDSON DR	14	ILM	5,730	5,730
19d	1000 W. Drake Rd	DAVIDSON DR - WORTHINGTON AVE	14	ILM	1,570	1,570
20d	700 W. Drake	WORTHINGTON AVE - RESEARCH BLVD	15	ILM	3,136	3,136
21d	2000 W. Harmony Rd	TAFT HILL RD - GREENGATE DR	20	ILM	2,000	2,000
22d	1600 W. Harmony Rd	SENECA ST - CHOKECHERRY TR	20	ILM	1,398	1,398
23d	3700 S. Shields St	ARBOR AVE - WABASH ST	30	ILM	3,833	3,833
24d	3900 S. Shields St	WABASH ST - FAITH CHURCH S. DR	30	ILM	2,205	2,205

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25d	4100 S. Shields St	F C CITY CHURCH S. DR. - TROUTMAN PKWY	20	ILM	1,911		1,911
26d	4200 S. Shields St	TROUTMAN PKWY - WAKEROBIN LN	20	ILM	6,019		6,019
27d	100 E. Harmony Rd	COLLEGE AVE - HARMONY MARKET ENTRANCE	21	ILM	738		738
28d	200 E. Harmony Rd	HARMONY MARKET ENTRANCE - JFK PARKWAY	21	ILM	10,568		10,568
29d	4800 S. Timberline Rd	TIMBERWOOD DR - TIMBER COURT DR	22	ILM	7,470		7,470
30d	4600 S. Timberline Rd	HARMONY RD - TIMBERWOOD DR	22	ILM	1,068		1,068
31d	2100 E. Harmony Rd	TIMBERLINE RD - ENTR. TO HARMONY CAMPUS	22	ILM	3,000		3,000
32d	2000 E. Harmony Rd	TIMBERLINE RD - ENTR. TO STARBUCKS	22	ILM	1,600		1,600
33d	1821 E. Harmony Rd	STARBUCKS ENTRANCE - RR TRACKS	22	ILM	3,840		3,840
34d	4400 S. Timberline Rd	MILESTONE DR - HARMONY RD	23	ILM	2,880		2,880
35d	2900 S. Timberline Rd	SAGEBRUSH DR - CUSTER DR	23	ILM	10,530		10,530
36d	1920 E. Drake Rd	RAILROAD TRACKS - SAGEBRUSH DR	17	ILM	1,260		1,260
37d	2000 E. Drake Rd	TIMBERLINE RD/DRAKE RD - EAST 1 BLOCK	17	ILM	5,015		5,015
38d	2600 N. Timberline Rd	DRAKE RD/TIMBERLINE RD - NORTH 1 BLOCK	17	ILM	5,075		5,075
39d	450 S. College Ave	MAGNOLIA ST - MULBERRY ST	8	ILM	3,184		3,184
40d	2700 S. Timberline Rd	DRAKE RD - CUSTER DR - SOUTH END	17	ILM	19,372		19,372
41d	518 S. College Ave	MULBERRY ST - MYRTLE ST	9	ILM HSE	1,785	591	2,376
42d	810 E. Mulberry St	COWMAN ST - RIVERSIDE AVE	10	ILM HSE	2,560		2,560
43d	618 S. College Ave	MYRTLE ST - LAUREL ST	15	ILM HSE	3,262	5,438	8,700
44d	1200 S. College Ave	EDWARDS ST - PITKIN ST	15	ILM HSE	1,758		1,758
45d	1300 S. College Ave	PITKIN ST - LAKE ST	15	ILM HSE	6,420		6,420
46d	1702 S. College Ave	PARKER ST - STUART ST	15	ILM HSE	3,564		3,564
47d	2060 S. College Ave	RUTGERS AVE - ARTHUR DR	15	ILM HSE	3,138		3,138
48d	500 N. College Ave	RRXing - VINE DR	8	ILM HSE SB	5,265		5,265
49d	2101 W. Drake Rd	HAMPSHIRE RD - TAFT HILL RD	14	ILM HSE SB	16,740		16,740
50d	2017 W. Drake Rd	TAFT HILL RD TO YORKTOWN AVE	14	ILM HSE SB	9,820		9,820
51d	1713 W. Drake Rd	CONSTITUTION AVE - HANOVER DR	14	ILM HSE SB	3,349		3,349
52d	1601 W. Drake Rd	HANOVER DR - DUNBAR AVE	14	ILM HSE SB	4,096		4,096
53d	1801 W. Drake Rd	YORKTOWN AVE - CONSTITUTION AVE	14	ILM HSE SB	7,356		7,356
54d	716 S. College Ave	LAUREL ST - PLUM ST	15	ILM HSE SB	3,448		3,448
55d	1030 E. Riverside Ave	MULBERRY ST - LEMAY AVE	15	ILM HSE SB	700		700
56d	1910 E. Prospect Rd	SURTHERLAND LUMBER - ACADEMY CT.	17	ILM HSE SB	2,432		2,432
57d	1940 E. Prospect Rd	ACADEMY CT. - RRXing	17	ILM HSE SB	3,850		3,850
58d	3601 S. Taft Hill Rd.	HORSETOOTH RD - IMPERIAL DR	20	ILM HSE SB	1,296		1,296
59d	2101 W. Horsetooth Rd	SILVER TRAILS DR - TAFT HILL RD	20	ILM HSE SB	1,392		1,392
60d	2030 W. Horsetooth Rd	GOODELL LN - TAFT HILL RD	20	ILM HSE SB	730		730
61d	3200 S. Shields St	CASA GRANDE BLVD - SWALLOW RD	20	ILM HSE SB	410	514	924
62d	3301 S. Shields St	CASA GRANDE BLVD - CUNNINGHAM DR	20	ILM HSE SB	889	1,505	2,394
63d	3500 S. Shields St	CUNNINGHAM DR - RICHMOND DR	20	ILM HSE SB	2,056	3,032	5,088
64d	3600 S. Shields St	RICHMOND DR - HORSETOOTH RD	20	ILM HSE SB	1,791	651	2,442
65d	3600 E. JFK Pkwy	HORSETOOTH RD - BACHMAN	21	ILM HSE SB	4,186		4,186
66d	300 E. Horsetooth Rd	JFK PKWY - STANFORD RD #1	21	ILM HSE SB	210		210

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67d	389 E. Horsetooth Rd	JFK PKWY - STANFORD RD #2	21	ILM HSE SB	3,750		3,750
68d	400 E. Horsetooth Rd	JFK PKWY - STANFORD RD #3	21	ILM HSE SB	3,750		3,750
69d	4000 S. College Ave	BOARDWALK DR - TROUTMAN PKWY	21	ILM HSE SB	3,192		3,192
70d	4374 S. College Ave	TROUTMAN PKWY - PAVILION LN	21	ILM HSE SB	1,638	8,682	10,320
71d	4400 S. College Ave	PAVILION LN - KENSINGTON DR	21	ILM HSE SB	742		742
72d	400 N. College Ave	Jefferson - Gateway Bridge	8	ILM	6,017		6,017
73d	1101 E. Horsetooth Rd	LEMAY AVE - ROLLING GREEN DR	22	ILM HSE SB	5,088		5,088
74d	1201 E. Horsetooth Rd	ROLLING GREEN DR - LEMAY AVE	22	ILM HSE SB	4,476		4,476
75d	3650 S. Lemay Ave	HORSETOOTH RD - TICONDEROGA DR	22	ILM HSE SB	9,000		9,000
76d	3900 S. Lemay Ave	HORSETOOTH RD - TICONDEROGA DR	22	ILM HSE SB	15,564		15,564
77d	4000 S. Lemay Ave	HORSETOOTH RD - TICONDEROGA DR	22	ILM HSE SB	3,710		3,710
78d	6300 S. Lemay Ave	TRILBY RD - PROVINCE RD	20	ILM HSE SB	720	1,752	2,472
79d	6600 S. Lemay Ave	TRILBY RD - PROVINCE RD	24	ILM HSE SB	736	1,728	2,464
80d	100 S. Whedbee St	RIVERSIDE AVE - OAK ST	8	ILM SB	492		492
81d	505 E. Oak St	WHEDBEE ST - RIVERSIDE AVE	8	ILM SB	770		770
82d	424 E. Elizabeth	PETERSON ST - WHEDBEE ST	15	ILM SB	1,048		1,048
83d	925 S. Whedbee St	LOCUST ST - ELIZABETH ST	15	ILM SB	832		832
84d	502 E. Elizabeth	WHEDBEE ST - SMITH ST	15	ILM SB	1,048		1,048
85d	1001 S. Whedbee St	ELIZABETH ST - GARFIELD ST	15	ILM SB	840		840
86d	West Elizabeth	Shields/Elizabeth to City Park Dr./Elizabeth	14	ILM	2,287		2,287
87d	100 W. Harmony Rd	COLLEGE AVE - MASON ST	21	ILM SB	1,812		1,812
88d	220 W. Harmony Rd	MASON ST - TRACKS - BOTH ENDS OF MEDIAN	21	ILM SB	2,994		2,994
89d	5830 S. LeMay	Muirfield Wy - Fossil Creed Dr	20	ILM	8,000		8,000
90d	South LeMay	Trilby/Carpenter-Mountain Home	24	ILM	5,095		5,095
91d	Ketcher and Zigler	Round about	24	ILM	5,675		5,675
92d	Timberline Rd	Prospect Rd. - Drake Rd.	17	ILM	31,480		31,480
93d	2210 S. College Ave	RUTGERS AVE - COLUMBIA RD (E)	15	IRLF	3,444		3,444
94d	2406 S. College Ave	YALE AVE - COLUMBIA RD. (E)	15	IRLF	2,080		2,080
95d	2506 S. College Ave	HARVARD ST - YALE AVE. (E)	15	IRLF	3,078		3,078
96d	2526 S. College Ave	HARVARD ST - PRINCETON RD (E)	15	IRLF	5,304		5,304
97d	400 N. College Ave	Jefferson - Gateway Bridge (W)	8	IRLF	6,624		6,624
98d	410 N. College	Jefferson - Gateway Bridge (E)	8	IRLF	1,820		1,820
99d	2700 S. Timberline Rd	DRAKE RD - CUSTER DR -NORTH END	17	IRLM	3,718		3,718
100d	115 W. Troutman Pkwy	COLLEGE AVE - MASON ST	21	IRLM	2,450		2,450
101d	115 W. Troutman Pkwy	COLLEGE AVE - MASON ST	21	IRLM	2,580		2,580

Total = 432,469
Section D BID AMOUNT _____

SECTION E Non-irrigated

1e	2701 S. College Ave	THUNDERBIRD DR - HARVARD (E)	21	NIGF	4,278		4,278
2e	2800 S. College Ave	HARVARD ST - DEL CLAIR RD (E)	21	NIGF	4,592		4,592

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3e	1400 S. LaPlata Ave	PROSPECT RD - BUCKEYE ST	16	NIGM	18,666	18,666
4e	2201 W. Mulberry St	TYLER ST. - ROGERS PARK (S)	7	NIGP	9,658	9,658
5e	1100 W Vine Dr	SHIELDS ST - HANNA ST (S)	8	NIGP	28,485	28,485
6e	600 N. Shields St	ELM ST - VINE DR (W)	8	NIGP	4,610	4,610
7e	2800 W. Drake Rd	PASQUINEL DR - YORKSHIRE AVE (N)	13	NIGP	9,591	9,591
8e	2700 W. Drake Rd	YORKSHIRE AVE - MONTMORENCY ST (N)	13	NIGP	22,911	22,911
9e	2500 W. Drake Rd	MONTMORENCY ST - WYANDOTTE DR (N)	13	NIGP	20,600	20,600
10e	1900 S. Hampshire Rd	SUFFOLK ST - STUART ST (E)	14	NIGP	3,696	3,696
11e	1600 S. Taft Hill Rd.	PROSPECT RD - SUFFOLK ST (W)	14	NIGP	45,225	45,225
12e	1800 S. Taft Hill Rd.	SUFFOLK ST - STUART ST (W)	14	NIGP	56,250	56,250
13e	2000 S. Taft Hill Rd.	STUART ST - BLEVINS CT (W)	14	NIGP	6,750	6,750
14e	2000 S. Taft Hill Rd.	STUART ST - STUART ST (E)	14	NIGP	9,288	9,288
15e	2200 S. Taft Hill Rd.	BLEVINS CT - MANCHESTER DR (W)	14	NIGP	10,052	10,052
16e	2200 S. Taft Hill Rd.	SHEFFIELD DR - MANCHESTER DR (E)	14	NIGP	4,869	4,869
17e	2300 S. Taft Hill Rd.	MANCHESTER DR - VALLEY FORGE AVE (E)	14	NIGP	2,154	2,154
18e	2300 S. Taft Hill Rd.	MANCHESTER DR - VALLEY FORGE AVE (W)	14	NIGP	18,816	18,816
19e	2300 W. Drake Rd	WYANDOTTE DR - HAMPSHIRE RD (N)	14	NIGP	18,876	18,876
20e	700 W. Drake Rd	DAVIDSON DR - WORTHINGTON AVE (S)	14, 15	NIGP	7,110	7,110
21e	800 W. Drake Rd	WORTHINGTON AVE - DITCH (S)	15	NIGP	6,246	6,246
22e	1400 S. LaPlata Ave	PROSPECT RD - BUCKEYE ST (W)	16	NIGP	5,185	5,185
23e	1400 E. Prospect Rd	WELCH ST - EMIGH ST (N)	16	NIGP	440	440
24e	1500 E. Prospect Rd	EMIGH ST - LONGSPEAK DR (N)	16	NIGP	8,778	8,778
25e	1500 E. Prospect Rd	EDORA RD - EDORA RD (S)	16	NIGP	12,240	12,240
26e	1600 E. Prospect Rd	LONGSPEAK DR - LaPLATTA AVE (N)	16	NIGP	11,160	11,160
27e	2100 S. Lemay Ave.	KIRKWOOD DR - PARKWOOD DR (E)	16	NIGP	4,565	4,565
28e	1100 E. Drake Rd	LEMAY AVE - EASTWOOD DR (N)	16	NIGP	66,000	66,000
29e	1700 E. Drake Rd	BROOKWOOD DR - SILVER CREEK DR (S)	16	NIGP	5,850	5,850
30e	1700 E. Drake Rd	EASTWOOD DR - RRXing (N)	16	NIGP	9,600	9,600
31e	1900 E. Drake Rd	SAGEBRUSH DR - RRXing (S)	17	NIGP	1,860	1,860
32e	2000 E. Drake Rd	TIMBERLINE RD - SAGEBRUSH DR (S)	17	NIGP	3,605	3,605
33e	2700 S Timberline Rd	CUSTER DR - DRAKE RD (W)	17, 23	NIGP	17,136	17,136
34e	1501 W. Horsetooth Rd	TAFT HILL RD. - DUNBAR AVE (N)	20	NIGP	14,736	14,736
35e	1500 W. Horsetooth Rd	DUNBAR AVE - CRESCENT DR (N)	20	NIGP	6,390	6,390
36e	900 W. Horsetooth Rd	WINDMILL DR - CENTURY DR (N)	20	NIGP	7,356	7,356
37e	4100 S. Shields St	TROUTMAN PKWY - CHURCH (E)	20	NIGP	7,725	7,725
38e	4200 S. Shields St	WAKEROBIN LN - TROUTMAN PKWY (E)	20	NIGP	23,136	23,136
39e	900 W. Troutman Pkwy	SADDLE NOTCH DR - GOLDENRIDGE WY (S)	20	NIGP	3,624	3,624
40e	900 W. Troutman Pkwy	SADDLE NOTCH DR - BEAVER CREEK DR (N)	20	NIGP	5,552	5,552
41e	800 W. Troutman Pkwy	GOLDENRIDGE WY - STAR FLOWER DR (S)	20, 21	NIGP	4,728	4,728
42e	800 W. Troutman Pkwy	BEAVER CREEK DR - MOSS CREEK DR (N)	20, 21	NIGP	6,040	6,040
43e	900 W. Wakerobin Ln	BITTERBRUSH LN - SHIELDS ST (N)	20	NIGP	8,640	8,640
44e	300 W. Harmony Rd	LARKBUNTING DR - SHIELDS ST (N)	20, 21	NIGP	31,580	31,580

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45e	600 W. Swallow Rd	COLONY DR - CUMBERLAND CT (S)	21	NIGP	3,807	3,807
46e	500 W. Swallow Rd	MEADOWLARK AVE - COLONY DR (S)	21	NIGP	3,800	3,800
47e	2700 S. Stover St	STRACHAN DR - DEL CLAIR RD (E)	21	NIGP	2,624	2,624
48e	800 W. Horsetooth Rd	TRADITION DR - WINDMILL DR (N)	21	NIGP	4,440	4,440
49e	700 W. Horsetooth Rd	COLONY DR - TRADITION DR (N)	21	NIGP	3,810	3,810
50e	500 W. Horsetooth Rd	RIVA RIDGE DR - COLONY DR (N)	21	NIGP	10,962	10,962
51e	400 W. Horsetooth Rd	TRADITION DR - MANHATTAN AVE (S)	21	NIGP	13,080	13,080
52e	400 W. Horsetooth Rd	MANHATTAN AVE - RIVA RIDGE DR (N)	21	NIGP	5,992	5,992
53e	700 W. Troutman Pkwy	MOSS CREEK DR - TABLE MOUNTAIN PL (N)	21	NIGP	2,224	2,224
54e	700 W. Troutman Pkwy	STARFLOWER DR - TABLE MOUNTAIN PL (S)	21	NIGP	5,512	5,512
55e	2300 S. Lemay Ave	SWALLOW RD - CENTENNIAL DR (E)	22	NIGP	15,960	15,960
56e	2800 S. Lemay Ave	CENTENNIAL DR - STRACHAN DR (E)	22	NIGP	27,434	27,434
57e	3500 S. Lemay Ave	MANSFIELD DR - HORSETOOTH RD (W)	22	NIGP	9,060	9,060
58e	3100 S. Lemay Ave	SWALLOW RD - SPRINGWOOD DR (W)	22	NIGP	6,072	6,072
59e	700 E. Horsetooth Rd	LEMAY AVE - CAMELOT DR (N)	22	NIGP	33,240	33,240
60e	800 E. Horsetooth Rd	CAMELOT DR - STOVER ST (N)	22	NIGP	33,600	33,600
61e	2800 S Timberline Rd	SAGEBRUSH DR - CUSTER DR (W)	23	NIGP	20,034	20,034
62e	3000 S Timberline Rd	VERMONT DR - SAGEBRUSH DR (W)	23	NIGP	20,646	20,646
63e	2200 E. Horsetooth Rd	TIMBERLINE RD - ARCTIC FOX DR (S)	23	NIGP	6,784	6,784
64e	2300 E. Horsetooth Rd	ARCTIC FOX DR - CARIBOU DR (S)	23	NIGP	33,920	33,920
65e	4500 S. Shields	WAKEROBIN LN - HARMONY RD (E)	20	NIGP	4,600	4,600
66e	4100 S. Shields St	F C CITY CHURCH S. DR. - TROUTMAN PKWY (W)	20	NIGP	4,545	4,545
67e	4200 S. Shields St	TROUTMAN PKWY - WAKEROBIN LN (W)	20	NIGP	8,286	8,286
68e	4500 S. Shields St	WAKEROBIN LN - HARMONY RD (W)	20	NIGP	1,260	1,260
69e	2801 W. Horsetooth Rd	CARIBOU DR - KINGSLEY DR (S)	23	NIGP	8,586	8,586
70e	2801 W. Horsetooth Rd	KINGSLEY DR - ASHMOUNT (S)	23	NIGP	10,737	10,737
71e	3001 W. Horsetooth Rd	ASHMOUNT DR - CR #9 around corner to bench (S)	23	NIGP	3,825	3,825
72e	3601 S. Manhattan Ave	HORSETOOTH RD - HAVEN DR (W)	21	NIGP	3,900	3,900
73e	3651 S. Manhattan Ave	HAVEN DR - WALDEN WAY (W)	21	NIGP	4,186	4,186
74e	3701 S. Manhattan Ave	WALDEN WAY - DENNISON AVE (W)	21	NIGP	2,626	2,626
75e	3801 S. Manhattan Ave	DENNISON AVE - ALBION WAY (W)	21	NIGP	7,332	7,332

Total = 901,533

Section E BID AMOUNT _____

SECTION F Non-irrigated

1f	2600 S. College Ave	NORTH SIDE OF HOOTER'S - THUNDERBIRD DR	21	NILF	2,450	2,450
2f	2620 S. College Ave	THUNDERBIRD DR - HARVARD ST	21	NILM - HSE SB	4,212	4,212
3f	2851 S. College Ave	HARVARD ST - SWALLOW RD	21	NILM - HSE SB	12,720	12,720
4f	3200 S. College Ave	FOOTHILLS PKWY - MONROE AVE	21	NILM - HSE SB	17,472	17,472
5f	3500 S. College Ave	MONROE AVE - HORSETOOTH RD	21	NILM - HSE SB	960	960
6f	3700 S. College Ave	HORSETOOTH RD - CREGAR DR	21	NILM - HSE SB	595	595
7f	1701 E. Prospect Rd	LAPLATA AVE - RIVERSIDE AVE	16	NILM HSE	1,180	1,180

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8f	1800 E. Prospect Rd	RIVERSIDE AVE - SUTHERLANDS LUMBER	16	NILM HSE	4,794	4,794
9f	2000 S. Hampshire Rd	STUART ST - TUNIS CR	14	NILM SB	2,160	2,160
10f	2300 S. Stover St	CORNELL AVE - TULANE DR	15	NILM SB	1,710	1,710
11f	2400 S. Stover St	TULANE DR - BROWN - AVE	15	NILM SB	1,710	1,710
12f	2500 S. Stover St	DRAKE RD - MARQUETTE ST	15	NILM SB	1,500	1,500
13f	189 E. Laurel	@ REMINGTON NW	15	NILP	677	677
14f	189 E. Laurel	@ REMINGTON SW	15	NILP	677	677
15f	201 E. Laurel	@ REMINGTON NE	15	NILP	695	695
16f	201 E. Laurel	@ REMINGTON SE	15	NILP	695	695
17f	489 E. Laurel	@ WHEDBEE NW	15	NILP	695	695
18f	489 E. Laurel	@ WHEDBEE SW	15	NILP	695	695
19f	501 E. Laurel	@ WHEDBEE NE	15	NILP	695	695
20f	501 E. Laurel	@ WHEDBEE SE	15	NILP	695	695
21f	300 Canyon Ave	MELDRUM ST - SHERWOOD ST	9	NIRLM	2,310	2,310
22f	1800 S. Hampshire Rd	SUFFOLK ST - CEDARWOOD DR	14	NIRLM	3,580	3,580
23f	2500 Eastwood Dr	DRAKE RD - EASTWOOD DR	16	NIRLM	1,620	1,620
24f	900 W. Wakerobin Ln	BITTERBRUSH LN - SHIELDS ST	20	NIRLM	1,100	1,100
25f	1000 W. Wakerobin Ln	WESTBROOKE CT - SHIELDS ST	20	NIRLM	1,691	1,691
26f	601 S. Lemay Ave.	POUDRE RIVER DR - RRXing	16	NIRLM HSE SB	2,604	2,604
27f	689 S. Lemay Ave.	RRXing - RIVERSIDE DR	16	NIRLM HSE SB	8,464	8,464
28f	2700 S. Shields St	DAVIDSON DR - ROCKY MT WAY (E)	20	NIRLP	300	300
29f	2001 W. Drake	TAFT HILL RD - END OF WOOD FENCE (S)	14	NIRLP	717	717
Total =					79,373	
Section F BID AMOUNT						

KEY

NORTH SIDE OF STREET
 SOUTH SIDE OF STREET
 EAST SIDE OF STREET
 WEST SIDE OF STREET
 IRRIGATED GRASS MEDIAN
 IRRIGATED LANDSCAPED MEDIAN - NO GRASS
 IRRIGATED PARKWAY
 IRRIGATED FRONTAGE
 NON-IRRIGATED GRASS MEDIAN
 NON-IRRIGATED LANDSCAPED MEDIAN
 NON-IRRIGATED GRASS PARKWAY
 NON-IRRIGATED GRASS FRONTAGE

	N
	S
	E
	W
MAGENTA	IGM
YELLOW	ILM
GREEN	IGP
SKY BLUE	IGF
AQUA	NIGM
AQUA	NILM
BROWN	NIGP
BROWN	NIGF
BLACK	IRLM
BLACK	NIRLM
BLACK	IRLP

1C City of Fort Collins Invitation to Bid for Streetscape Maintenance

IRRIGATED ROCK LANDSCAPE MEDIAN	BLACK	NIRLP
NON-IRRIGATED ROCK LANDSCAPE MEDIAN	BLACK	IRLF
IRRIGATED ROCK LANDSCAPE PARKWAY	BLACK	NIRLF
NON-IRRIGATED ROCK LANDSCAPE PARKWAY	BLACK	NIRLP
IRRIGATED ROCK LANDSCAPE FRONTAGE	BLACK	NILP
NON-IRRIGATED ROCK LANDSCAPE FRONTAGE	BLACK	NILF
NON-IRRIGATED ROCK LANDSCAPE PARKWAY	ORANGE	HSM
NON-IRRIGATED LANDSCAPED PARKWAY	ORANGE	HSE
NON-IRRIGATED LANDSCAPED FRONTAGE	ORANGE	SB
HARD SURFACE MEDIAN		
HARD SURFACE ENDS		
SPLASH BLOCK		

SERVICES AGREEMENT

THIS AGREEMENT made and entered into the day and year set forth below by and between THE CITY OF FORT COLLINS, COLORADO, a Municipal Corporation, hereinafter referred to as the "City" and _____, hereinafter referred to as "Service Provider".

WITNESSETH:

In consideration of the mutual covenants and obligations herein expressed, it is agreed by and between the parties hereto as follows:

1. Scope of Services. The Service Provider agrees to provide services in accordance with the scope of services attached hereto as Exhibit "A", consisting of _____ pages and incorporated herein by this reference.

2. The Work Schedule. [Optional] The services to be performed pursuant to this Agreement shall be performed in accordance with the Work Schedule attached hereto as Exhibit "B", consisting of ____ (____) page[s], and incorporated herein by this reference.

3. Time of Commencement and Completion of Services. The services to be performed pursuant to this Agreement shall be initiated within _____ (____) days following execution of this Agreement. Services shall be completed no later than _____. Time is of the essence. Any extensions of the time limit set forth above must be agreed upon in a writing signed by the parties.

4. Contract Period. [Option 1] This Agreement shall commence upon the date of execution shown on the signature page of this Agreement and shall continue in full force and effect for one (1) year, unless sooner terminated as herein provided. In addition, at the option of the City, the Agreement may be extended for an additional period of one (1) year at the rates provided with written notice to the Professional mailed no later than ninety (90) days prior to contract end.

1C City of Fort Collins Invitation to Bid for Streetscape Maintenance

4. Contract Period. [Option 2] This Agreement shall commence _____, 200__, and shall continue in full force and effect until _____, 200__, unless sooner terminated as herein provided. In addition, at the option of the City, the Agreement may be extended for additional one year periods not to exceed ____ (__) additional one year periods. Renewals and pricing changes shall be negotiated by and agreed to by both parties. The Denver Boulder Greeley CPIU published by the Colorado State Planning and Budget Office will be used as a guide. Written notice of renewal shall be provided to the Service Provider and mailed no later than ninety (90) days prior to contract end.

5. Delay. If either party is prevented in whole or in part from performing its obligations by unforeseeable causes beyond its reasonable control and without its fault or negligence, then the party so prevented shall be excused from whatever performance is prevented by such cause. To the extent that the performance is actually prevented, the Service Provider must provide written notice to the City of such condition within fifteen (15) days from the onset of such condition.

[Early Termination clause here as an option.

6. Early Termination by City/Notice. Notwithstanding the time periods contained herein, the City may terminate this Agreement at any time without cause by providing written notice of termination to the Service Provider. Such notice shall be delivered at least fifteen (15) days prior to the termination date contained in said notice unless otherwise agreed in writing by the parties. All notices provided under this Agreement shall be effective when mailed, postage prepaid and sent to the following addresses:

City: City of Fort Collins Attn: Purchasing PO Box 580 Fort Collins, CO 80522	Copy to: City of Fort Collins Attn: PO Box 580 Fort Collins, CO 80522	Service Provider:
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In the event of early termination by the City, the Service Provider shall be paid for services rendered to the date of termination, subject only to the satisfactory performance of the Service Provider's obligations under this Agreement. Such payment shall be the Service Provider's sole right and remedy for such termination.

1C City of Fort Collins Invitation to Bid for Streetscape Maintenance

7. Contract Sum. The City shall pay the Service provider for the performance of this Contract, subject to additions and deletions provided herein, per the attached Exhibit "A", consisting of _____ pages, and incorporated herein by this reference.

8. City Representative. The City will designate, prior to commencement of the work, its representative who shall make, within the scope of his or her authority, all necessary and proper decisions with reference to the services provided under this agreement. All requests concerning this agreement shall be directed to the City Representative.

9. Independent Service provider. The services to be performed by Service Provider are those of an independent service provider and not of an employee of the City of Fort Collins. The City shall not be responsible for withholding any portion of Service Provider's compensation hereunder for the payment of FICA, Workmen's Compensation or other taxes or benefits or for any other purpose.

10. Personal Services. It is understood that the City enters into the Agreement based on the special abilities of the Service Provider and that this Agreement shall be considered as an agreement for personal services. Accordingly, the Service Provider shall neither assign any responsibilities nor delegate any duties arising under the Agreement without the prior written consent of the City.

11. Acceptance Not Waiver. The City's approval or acceptance of, or payment for any of the services shall not be construed to operate as a waiver of any rights or benefits provided to the City under this Agreement or cause of action arising out of performance of this Agreement.

12. Warranty.

- (a) Service Provider warrants that all work performed hereunder shall be performed with the highest degree of competence and care in accordance with accepted standards for work of a similar nature.
- (b) Unless otherwise provided in the Agreement, all materials and equipment incorporated into any work shall be new and, where not specified, of the most suitable grade of their respective kinds for their intended use, and all workmanship shall be acceptable to City.

- (c) Service Provider warrants all equipment, materials, labor and other work, provided under this Agreement, except City-furnished materials, equipment and labor, against defects and nonconformances in design, materials and workmanship/workwomanship for a period beginning with the start of the work and ending twelve (12) months from and after final acceptance under the Agreement, regardless whether the same were furnished or performed by Service Provider or by any of its subcontractors of any tier. Upon receipt of written notice from City of any such defect or nonconformances, the affected item or part thereof shall be redesigned, repaired or replaced by Service Provider in a manner and at a time acceptable to City.

13. Default. Each and every term and condition hereof shall be deemed to be a material element of this Agreement. In the event either party should fail or refuse to perform according to the terms of this agreement, such party may be declared in default thereof.

14. Remedies. In the event a party has been declared in default, such defaulting party shall be allowed a period of ten (10) days within which to cure said default. In the event the default remains uncorrected, the party declaring default may elect to (a) terminate the Agreement and seek damages; (b) treat the Agreement as continuing and require specific performance; or (c) avail himself of any other remedy at law or equity. If the non-defaulting party commences legal or equitable actions against the defaulting party, the defaulting party shall be liable to the non-defaulting party for the non-defaulting party's reasonable attorney fees and costs incurred because of the default.

15. Binding Effect. This writing, together with the exhibits hereto, constitutes the entire agreement between the parties and shall be binding upon said parties, their officers, employees, agents and assigns and shall inure to the benefit of the respective survivors, heirs, personal representatives, successors and assigns of said parties.

16. Indemnity/Insurance.

a. The Service Provider agrees to indemnify and save harmless the City, its officers, agents and employees against and from any and all actions, suits, claims, demands or liability of any character whatsoever brought or asserted for injuries to or death of any person or persons, or damages to property arising out of, result from or occurring in connection with

the performance of any service hereunder.

b. The Service Provider shall take all necessary precautions in performing the work hereunder to prevent injury to persons and property.

c. Without limiting any of the Service Provider's obligations hereunder, the Service Provider shall provide and maintain insurance coverage naming the City as an additional insured under this Agreement of the type and with the limits specified within Exhibit B, consisting of one (1) page, attached hereto and incorporated herein by this reference. The Service Provider before commencing services hereunder, shall deliver to the City's Director of Purchasing and Risk Management, P. O. Box 580 Fort Collins, Colorado 80522 one copy of a certificate evidencing the insurance coverage required from an insurance company acceptable to the City.

17. Entire Agreement. This Agreement, along with all Exhibits and other documents incorporated herein, shall constitute the entire Agreement of the parties. Covenants or representations not contained in this Agreement shall not be binding on the parties.

18. Law/Severability. The laws of the State of Colorado shall govern the construction interpretation, execution and enforcement of this Agreement. In the event any provision of this Agreement shall be held invalid or unenforceable by any court of competent jurisdiction, such holding shall not invalidate or render unenforceable any other provision of this Agreement.

19. Prohibition Against Employing Illegal Aliens. Pursuant to Section 8-17.5-101, C.R.S., et. seq., Service Provider represents and agrees that:

a. As of the date of this Agreement:

1. Service Provider does not knowingly employ or contract with an illegal alien who will perform work under this Agreement; and

2. Service Provider will participate in either the e-Verify program created in Public Law 208, 104th Congress, as amended, and expanded in Public Law 156, 108th Congress, as amended, administered by the United States Department of Homeland Security (the "e-Verify Program") or the Department Program (the "Department Program"), an employment verification program established pursuant to

Section 8-17.5-102(5)(c) C.R.S. in order to confirm the employment eligibility of all newly hired employees to perform work under this Agreement.

- b. Service Provider shall not knowingly employ or contract with an illegal alien to perform work under this Agreement or knowingly enter into a contract with a subcontractor that knowingly employs or contracts with an illegal alien to perform work under this Agreement.
- c. Service Provider is prohibited from using the e-Verify Program or Department Program procedures to undertake pre-employment screening of job applicants while this Agreement is being performed.
- d. If Service Provider obtains actual knowledge that a subcontractor performing work under this Agreement knowingly employs or contracts with an illegal alien, Service Provider shall:
 - 1. Notify such subcontractor and the City within three days that Service Provider has actual knowledge that the subcontractor is employing or contracting with an illegal alien; and
 - 2. Terminate the subcontract with the subcontractor if within three days of receiving the notice required pursuant to this section the subcontractor does not cease employing or contracting with the illegal alien; except that Service Provider shall not terminate the contract with the subcontractor if during such three days the subcontractor provides information to establish that the subcontractor has not knowingly employed or contracted with an illegal alien.
- e. Service Provider shall comply with any reasonable request by the Colorado Department of Labor and Employment (the "Department") made in the course of an investigation that the Department undertakes or is undertaking pursuant to the authority established in Subsection 8-17.5-102 (5), C.R.S.
- f. If Service Provider violates any provision of this Agreement pertaining to the duties imposed by Subsection 8-17.5-102, C.R.S. the City may terminate this Agreement. If this Agreement is so terminated, Service Provider shall be liable for actual and consequential damages to the City arising out of Service Provider's violation of Subsection 8-17.5-102, C.R.S.
- g. The City will notify the Office of the Secretary of State if Service Provider violates this provision of this Agreement and the City terminates the Agreement for such breach.

1C City of Fort Collins Invitation to Bid for Streetscape Maintenance

20. Special Provisions. [Optional] Special provisions or conditions relating to the services to be performed pursuant to this Agreement are set forth in Exhibit " ", consisting of () pages, attached hereto and incorporated herein by this reference.

CITY OF FORT COLLINS, COLORADO
a municipal corporation

By: _____
James B. O'Neill II, CPPO, FNIGP
Director of Purchasing and Risk Management

Date: _____

ATTEST:

City Clerk

APPROVED AS TO FORM:

Assistant City Attorney

By: _____

PRINT NAME

CORPORATE PRESIDENT OR VICE PRESIDENT

Date: _____
(Corporate Seal)

ATTEST:

CORPORATE SECRETARY

EXHIBIT B

INSURANCE REQUIREMENTS

1. The Service Provider will provide, from insurance companies acceptable to the City, the insurance coverage designated hereinafter and pay all costs. Before commencing work under this bid, the Service Provider shall furnish the City with certificates of insurance showing the type, amount, class of operations covered, effective dates and date of expiration of policies, and containing substantially the following statement:

"The insurance evidenced by this Certificate will not be cancelled or materially altered, except after ten (10) days written notice has been received by the City of Fort Collins."

In case of the breach of any provision of the Insurance Requirements, the City, at its option, may take out and maintain, at the expense of the Service Provider, such insurance as the City may deem proper and may deduct the cost of such insurance from any monies which may be due or become due the Service Provider under this Agreement. The City, its officers, agents and employees shall be named as additional insureds on the Service Provider's general liability and automobile liability insurance policies for any claims arising out of work performed under this Agreement.

2. Insurance coverages shall be as follows:

A. Workers' Compensation & Employer's Liability. The Service Provider shall maintain during the life of this Agreement for all of the Service Provider's employees engaged in work performed under this agreement:

1. Workers' Compensation insurance with statutory limits as required by Colorado law.
2. Employer's Liability insurance with limits of \$100,000 per accident, \$500,000 disease aggregate, and \$100,000 disease each employee.

B. Commercial General & Vehicle Liability. The Service Provider shall maintain during the life of this Agreement such commercial general liability and automobile liability insurance as will provide coverage for damage claims of personal injury, including accidental death, as well as for claims for property damage, which may arise directly or indirectly from the performance of work under this Agreement. Coverage for property damage shall be on a "broad form" basis. The amount of insurance for each coverage, Commercial General and Vehicle, shall not be less than \$500,000 combined single limits for bodily injury and property damage.

In the event any work is performed by a subcontractor, the Service Provider shall be responsible for any liability directly or indirectly arising out of the work performed under this Agreement by a subcontractor, which liability is not covered by the subcontractor's insurance.

2C City of Fort Collins Snow Ordinance

Fort Collins, CO Snow Ordinance

a) The owners or occupants of property abutting sidewalks within the City shall at all times keep the sidewalks abutting the lot or lots owned or occupied by them free and clear of snow and ice. If any such owners or occupants shall fail to remove the snow and ice from the sidewalks abutting their property within twenty-four (24) hours after the accumulation of snow and ice, then the City Manager may at once have the hazard corrected by removal of snow and ice from the sidewalk or by the application of abrasive material; and the cost, including inspection and other incidental costs in connection therewith, including the costs for carrying charges and costs of administration, shall be assessed against the property abutting the snow obstruction and the owner thereof.

(b) If the property owner contests the declaration of nuisance and/or the assessment of costs, he or she shall file a written request for review with the Director of Neighborhood and Building Services, or a written request for a hearing before the Referee, within ten (10) days from the service of a notice of assessment.

(c) Such assessment shall constitute an automatic, perpetual lien in the several amounts assessed against each property from the date the assessment became due until paid. Such liens shall have priority over all other liens except general taxes and prior special assessments. In case any such assessment that has not been set for hearing pursuant to Subsection (b) above is not paid within thirty (30) days after it has been certified by the Director of Neighborhood and Building Services and billed by the Financial Officer or his or her designee to the owner by deposit in the United States mail, addressed to the owner of record at the address as shown on the tax rolls of the County Assessor, or such other, more recent address as may be available to the City, and any agents, representatives or occupants as may be known, the Financial Officer or his or her designee shall be authorized to certify to the County Treasurer the list of delinquent assessments, giving the name of the owner of record, the number of the lot and block and the amount of assessment plus a ten-percent penalty. The certification shall be the same in substance and in the same form as required for the certification of taxes. The County Treasurer, upon the receipt of such certified list, is hereby authorized to place the same upon the delinquent tax list for the current year and to collect the assessment in the same manner as taxes are collected with such charges as may by law be made by the Treasurer, and all the laws of the State for the assessment and collection of the general taxes, including the laws for the sale of property for unpaid taxes, shall apply to and have full force and effect for the collection of all such assessments. Notwithstanding the foregoing, if the offending property is not subject to taxation, the City may elect alternative means to collect the amounts due pursuant to this Article, including the commencement of an action at law or in equity and, after judgment, pursue such remedies as are provided by law.

Package: 104 - Medians

Offer: 1 - Median Maintenance

Pkg/Offer: 104.1

Offer type: Current

Status: Amended

Capital Project: No

Offer Summary

This offer continues the maintenance of more than 300 medians, totaling 63 acres, for 8 months (March through October). No maintenance services are provided November through February. Maintenance includes maintaining irrigation systems, mowing, trimming, weeding, cleaning and renovating medians. The majority of medians are located along major thoroughfares throughout the city. The Parks Division assumes responsibility for median maintenance from Engineering after a two-year, post-construction warranty period is complete. In 2011, Parks will assume responsibility of 3,300 square feet of new medians at an estimated cost of \$528, and 169,599 square feet of new medians in 2012 at a cost of \$27,136. This offer funds contract services for median maintenance, which is outsourced to reduce the need for more City equipment and personnel.

Package: 104 - Medians

This report includes Accepted Offers.

Offer: 1 - Median Maintenance

Offer Description

The Parks Division out sources median maintenance to a contractor. The contractor maintains irrigation systems, mows, trims, weeds, and cleans through the contract period and renovates medians as requested. Parks Division staff manages the contract. Staff determines which medians should be renovated to keep them both attractive sustainable. The Parks Division has chosen to out source the daily maintenance to reduce the need for more City equipment and personnel. With many medians located on main thoroughfares in the City, outsourcing also reduces the City's risk from employees being injured in traffic accidents. The City has an 8 month contract from March through October. Parks partners with the Forestry Division to maintain median trees. No maintenance services are provided on medians and parkways November through February.

The Parks Division working with the Engineering Department has input into the design of new medians to ensure maintenance cost efficiencies with a focus on sustainability. Median maintenance standards are set forth in the City of Fort Collins Streetscape Design Standards and Guidelines – Sec. 10.4 Maintenance Responsibilities. These standards require that mowing and trimming shall occur weekly during the growing season and shrubs shall be trimmed as needed. Visible clippings shall be removed from sidewalks and streets after each mowing and trimming. Wood mulched beds shall be re-mulched every other year with the same type and quality of material. Concrete medians shall be checked for weed growth in expansion joints and weeds shall be removed. Weed control for turf grasses shall be provided to control pests as needed. Trash removal shall be done at the time of mowing and once in the spring before mowing begins. All areas shall have trash removed monthly during the winter months. Water conservation efforts will be maximized by following the plants evapotranspiration rate. Public trees will be managed in such a manner as to promote their general health which may include insect and disease control, fertilization, irrigation, staking, guying, wrapping, bracing and pruning. Continual median and parkway maintenance is necessary to keep shrubs and trees from obstructing views, to control weeds as required by the City's weed ordinance and to enhance the attractiveness of the City.

Currently the Parks Division is not able to support all of these standards. Wood mulch is not replaced every other year, only as renovation funding is available, and no trash removal is provided during winter months.

The Parks Division assumes responsibility for maintenance of newly constructed medians upon the expiration of the two year construction warranty period. In 2011, Parks will assume maintenance of an additional 3,300 square feet of medians at an estimated cost of \$528 and an additional 169,599 square feet in 2012 at an additional cost of \$27,136. These figures are included in the budget for this offer.

Linkage to RFR Purchasing Strategies

Purchasing Strategy #2: Contribute to Smooth and Predictable Traffic Flow

The main purpose of building medians is to improve and direct traffic flow. Medians and parkways should also be attractive, functional and link the public street corridors together through a unified city-wide plan. The purpose of landscape medians is to ensure significant canopy shading to reduce glare and heat build-up, contribute to visual quality and continuity within and between developments and along street corridors, enhance outdoor spaces, reduce erosion and stormwater runoff, and mitigate air pollution.

Package: 104 - Medians

Offer: 1 - Median Maintenance

Purchasing Strategy #3: Quality Roads and Infrastructure

Medians are maintained at a level to keep them clean, attractive and functional. It is important to maintain medians at this level because unattractive medians reduce the overall quality of the City's street system and can reduce functionality if plant growth interferes with the flow of traffic.

Purchasing Strategy #7: Sustainability

The Parks Division has input into the design of new medians and renovations to ensure maintenance cost efficiencies that focus on sustainability. As new medians are built, various sustainable designs are being implemented:

1. No lawn type turf in center medians
2. Reduce the number of plantings in center medians
3. Use native plants or low maintenance plantings when applicable
4. Water conservation efforts led by using state of the art technology equipment: that maximizes distribution of water to plant materials.
5. Native or low use turf in parkways where applicable
6. Better soil preparation for water retention

Renovated medians are also being retrofitted with new irrigation technology for more efficient use of irrigation water and renovated for more sustainable maintenance practices:

1. Rain sensors on all irrigation controllers
2. Replacement of irrigation controllers with ET(evapotranspiration) controllers and soil moisture sensors
3. Replace spray head irrigation systems with xeric drip emitters and sub-surface watering systems.
4. Two wire irrigation systems instead of multiple wire systems.
5. Turf on center medians is being replaced with mulch or rock

The City is also requiring certifications from maintenance contractors for "Best Management Practices" to conserve resources and promote healthy landscape.

All these changes are creating attractive functional medians that are more sustainable financially while reducing the use of precious resources.

Purchasing Strategy #9: Safety

Medians contribute to the safe flow of traffic by creating buffers that reduce accidents and parkways give pedestrians a safe place to walk.

Performance Measures

None

Package: 104 - Medians**Offer: 1 - Median Maintenance****Differences to Prior Budget Cycle (if applicable)**

Parks will assume responsibility of 3,300 sf. of new medians in 2011 and 177,151 sf. of new medians in 2012 from Engineering at a cost of \$528 and \$28,344 in 2011 and 2012 respectively

Summary of Changes Made as a Result of Results Team/BLT Review

7/1 - CPIO edits

Business Unit: 703030 - Medians

Staffing		2011	2012
3244-001	DIRECTOR OF PARKS	0.05	0.05
4158-001	ADMINISTRATIVE CLERK II	0.05	0.05
4360-009	ADMINISTRATIVE SUPPORT SUPV	0.05	0.05
7463-006	CREW CHIEF	0.30	0.30
		0.45	0.45
Expenses		2011	2012
510000 - Personnel Services		\$40,361	\$41,449
530000 - Purchased Property Services		\$362,337	\$391,887
		\$402,698	\$433,336
Funding Sources		2011	2012
100-General	Ongoing	\$395,107	\$425,516
100-Park Fees	Ongoing Restricted	\$7,591	\$7,820
		\$402,698	\$433,336

This report includes Accepted Offers.

Package: 127 - Streets Department Programs

Offer: 5 - Street Maintenance

Pkg/Offer: 127.5	Offer Type: Current	Status: Amended	Capital Project: No
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Offer Summary

This offer provides citywide street maintenance including pothole, bridge and guardrail repairs; patching and crack-sealing; and graffiti removal on streets. This offer provides safe, smooth roadways, and enhances aesthetics and mobility for all modes of transportation including motorists, bicyclists and pedestrians. Every service that this offer provides is with the customer in mind and ultimately protects the City's multi-billion dollar transportation infrastructure.

Package: 127 - Streets Department Programs

This report includes Accepted Offers.

Offer: 5 - Street Maintenance

Offer Description

The Streets Department is entrusted with the responsibility of maintaining quality streets. Providing timely and appropriate street maintenance extends the life of the infrastructure and reduces future maintenance and rehabilitation costs. This offer provides routine and preventative maintenance along the City's 2,142 lane miles of arterial, collector and residential streets.

This offer includes these major components of street maintenance:

ROUTINE MAINTENANCE: Addressing potholes, repairing pavement edge failures, bridge maintenance and cleaning under bridges, guardrail maintenance and cleaning, and smoothing depressions and ruts.

PREVENTATIVE MAINTENANCE: Street patching, crack-sealing, street reconstruction and overlays and concrete repairs.

SAFETY: A safe, predictable transportation network relies on prompt and responsive maintenance. Preventative maintenance also reduces the City's liability for citizen claims of vehicle and bicycle damage. This offer includes a 24 hour on-call emergency response to right-of-way hazards. Traffic control is also utilized in this offer to ensure the safety of motorists, bicyclists and pedestrians in and around street maintenance projects.

ASTHETICS: Graffiti removal on streets, sidewalks, medians and bridges; cleaning trash and debris under bridges.

CUSTOMER SERVICE: Street maintenance is one of the most visible city activities and may influence overall citizen satisfaction with city services. This offer includes prompt responsive measures for maintenance requests including addressing potholes, street repairs and graffiti removal to name a few. The Pothole Hotline provides an outlet where motorists, bicyclists and pedestrians can report potholes or street hazards 24-hours a day through online or phone requests. The Streets Department typically responds to requests the same day, not to exceed 48 hours after the request is received.

Linkage to RFR Purchasing Strategies

Purchasing Strategy 1: Innovation

The Streets Department collaborates and seeks partnerships within and across the city to utilize equipment and personnel more effectively. The success of the Kinnison Bridge Replacement Project resulted in saving thousands of taxpayer dollars, and relied on the partnerships between Engineering, Storm Water and the Streets Department. Another example of collaboration involved Engineering and the Streets Department to repair a roadway using an innovative chip-seal process.

Purchasing Strategies 2 & 5: Smooth, Predictable Traffic Flow and Travel Mode Options

The Streets Department strives to keep the pavements in good condition for a multi-modal system. Reducing potholes and other hazards eliminates the need to do frequent temporary repairs that would disrupt traffic for all modes of transportation.

Purchasing Strategy 3: Quality Roads and Infrastructure

Package: 127 - Streets Department Programs

Offer: 5 - Street Maintenance

Offer Description

The Streets Department is entrusted with the responsibility of maintaining quality streets. Providing timely and appropriate street maintenance extends the life of the infrastructure and reduces future maintenance and rehabilitation costs. This offer provides routine and preventative maintenance along the City's 2,142 lane miles of arterial, collector and residential streets.

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Linkage to RFR Purchasing Strategies

Purchasing Strategy 1: Innovation

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Purchasing Strategies 2 & 5: Smooth, Predictable Traffic Flow and Travel Mode Options

The Streets Department strives to keep the pavements in good condition for a multi-modal system. Reducing potholes and other hazards eliminates the need to do frequent temporary repairs that would disrupt traffic for all modes of transportation.

Purchasing Strategy 3: Quality Roads and Infrastructure

Package: 127 - Streets Department Programs

Offer: 5 - Street Maintenance

Studies indicate \$1 spent on preventative maintenance will cost \$4 more if maintenance is postponed, and proactive maintenance is critical to protect the city's multi-billion dollar transportation infrastructure investment. It is also important to recognize that recent budget cuts resulted in the delay of major pavement management capital projects. Thus, the demand of street maintenance activities is increased, particularly pothole patching.

Purchasing Strategy 7: Sustainability

Prompt and responsive maintenance of the transportation infrastructure enhances multi-modal accessibility. Maintenance activities, as mentioned previously, are vital to protect the city's infrastructure investment by extending the life of asphalt. This offer also provides several environmental benefits. Maintenance crews work four 10-hour shifts during summer months to achieve energy and cost savings. Equipment is also stored on the job site and eliminates the need to transport back and forth. Furthermore, crews attend annual environmental compliance training classes that ensure sound maintenance work.

Purchasing Strategy 9: Safety

A safe, predictable transportation network relies on prompt and responsive maintenance services. Mobility and the safety of citizens rely on the city's ability and liability to address and eliminate roadway hazards. Prompt graffiti removal is also known to deter gang activity and may enhance citizen perception of a safe community.

Performance Measures

Performance measures are:
cost/patch, number of potholes filled within 48 hours after being reported.

Differences to Prior Budget Cycle (if applicable)

Summary of Changes Made as a Result of Results Team/BLT Review

added performance measurements

Package: 127 - Streets Department Programs

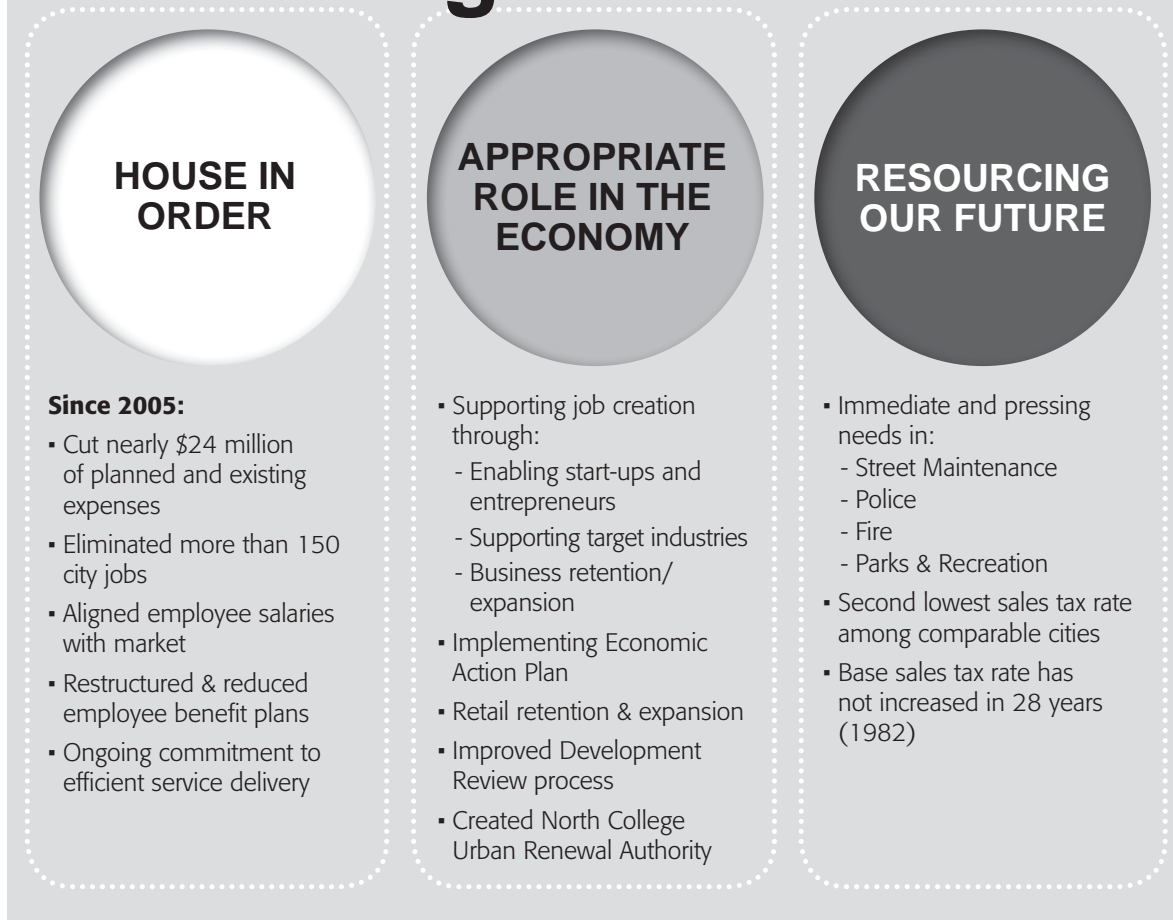
This report includes Accepted Offers.

Offer: 5 - Street Maintenance

Business Unit: 903700 - Street Patching & Maintenance

Staffing		2011	2012
1213-001	SPECIALIZED EQUIP OPERATOR I	1.00	1.00
1213-002	SPECIALIZED EQUIP OPERATOR I	1.00	1.00
1213-007	SPECIALIZED EQUIP OPERATOR I	1.00	1.00
7156-005	STREET'S EQUIPMENT OPERATOR I	1.00	1.00
7156-008	STREET'S EQUIPMENT OPERATOR I	1.00	1.00
7257-002	STREET'S EQUIPMENT OPERATOR II	1.00	1.00
7463-008	CREW CHIEF	1.00	1.00
		7.00	7.00
Expenses		2011	2012
510000 - Personnel Services		\$549,986	\$562,659
520000 - Purchased Prof & Tech Services		\$41,600	\$41,600
530000 - Purchased Property Services		\$63,359	\$66,473
540000 - Other Purchased Services		\$7,165	\$7,808
550000 - Supplies		\$237,403	\$239,924
		\$899,513	\$918,464
Funding Sources		2011	2012
292-Ongoing Revenue	Ongoing Restricted	\$899,513	\$918,464
		\$899,513	\$918,464

Resourcing our Future



The City of Fort Collins has pressing, immediate needs and a long-term vision for a stronger, sustainable community.

Although we have significantly cut costs and are operating more efficiently, City revenues are not keeping pace with the demand for basic City operations and services.

AS A COMMUNITY, WE MUST DETERMINE HOW TO ADDRESS THESE CRITICAL NEEDS:



STREET MAINTENANCE

Need: Additional resources needed to maintain streets, fill potholes and make basic repairs

Cost: Approximately \$6.5 million annually for street maintenance to maintain current pavement quality. *This cost does not include resources to meet other pressing needs: bridge repair and replacement; new roads, interchanges and other capital improvements; improvements in safety at school zones; neighborhood traffic calming; new bike lanes and sidewalks; transit service*

Impact to Community:

- Overall pavement conditions are deteriorating; more potholes are prevalent. Funding for street maintenance has been reduced by more than \$2 million in recent years.
- As conditions deteriorate due to delayed maintenance, replacement and repair costs become significantly more expensive.

Resourcing our Future (continued)



POLICE SERVICES

Need: An additional 48 officers & civilians needed to provide the level of service expected by the community

Cost: Approximately \$4.6 million per year

Impact to Community:

- Maintain appropriate staffing levels for basic police protection and dispatch
 - Shorter response times to emergencies
 - Shorter investigation turnaround times
 - More neighborhood patrolling
 - Increased traffic patrol
 - More party and noise enforcement
 - Safer Downtown during day and evening
 - Reduced overtime expense
-



POUDRE FIRE AUTHORITY

Need: More firefighters and other resources needed to serve growing demands in south Fort Collins, as well as enhanced Emergency Management

Cost: Approximately \$3.2 million per year

Impact to Community:

- Reduced response times to emergencies
 - Maintain appropriate staffing
 - Improved emergency scene management to better protect citizens and their property, and businesses
 - Increased ability to respond to simultaneous alarms
 - Increased preparedness, mitigation, response and recovery for emergencies, threats and disasters
 - Improved firefighter safety through better safety oversight and emergency coordination
-



PARKS AND RECREATION

Need: Additional resources for parks maintenance and to preserve recreation services

Cost: Approximately \$2 million per year (*\$1 million for parks maintenance and \$1 million for recreation*)

Impact to Community:

- City parks are beginning to deteriorate; additional resources are needed to keep our parks clean and well maintained.
- We are currently using \$900,000 of reserves to fund Recreation, which will run out in 2013. If General Fund support for Recreation is not restored, service levels will be severely impacted. Either a major facility, like the Senior Center or the Northside Aztlan Center, will need to close entirely, or staffing and programming will need to be drastically cut and hours of operation at facilities dramatically reduced. Cuts would have to be made to programs for lower-income residents because these programs receive the greatest General Fund support.

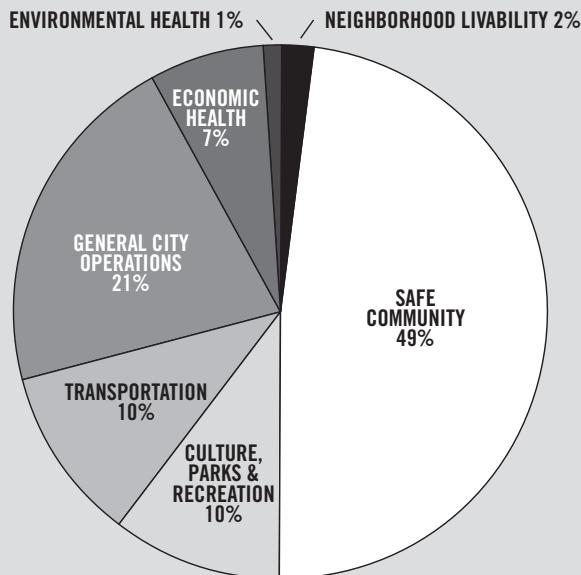
For more information: fcgov.com/resourcingourfuture

Financial Overview

GENERAL FUND REVENUE

In 2010, the City's General Fund revenues are \$102 million. Sixty percent of those revenues come from sales and use tax.

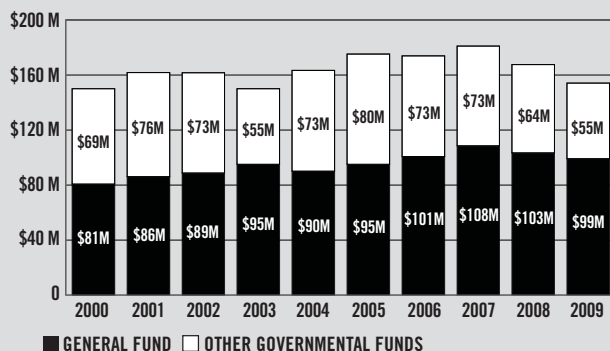
HOW THE GENERAL FUND MONEY IS SPENT



REVENUE

Despite cutting costs and operating more efficiently, City revenues are not keeping pace with the demand for basic City operations and services.

NET CITY REVENUE - GOVERNMENTAL FUNDS



In 2009, net City revenue in the governmental funds (such as general fund, transportation/street oversizing, recreation, cultural services, transit) was down \$14 million, reaching its lowest point since 2003.

BUDGET HISTORY

Over the last five years, the City has eliminated lower-priority services and aggressively pursued ways to make our local government more efficient.

We've cut nearly \$24 million of planned and existing expenses.

Following are a few specific examples of cuts that have been made and efficiencies:

- Eliminated more than 150 jobs: 106 FTE in 2006; 48 FTE in 2010
- Reorganized top management, eliminated top and mid-level management positions and created efficiencies
- Created the one-stop development shop
- Consolidated Information Technology staff into a centralized organization
- Eliminated policy and finance positions within several departments
- Restructured City employee health benefits; employees bear greater out-of-pocket cost burden
- No pay raises in 2004, 2005 (except sworn police) & 2010
- Reduced Street Maintenance by \$2 million
- Using \$900,000 of reserves to fund Recreation; reserves run out in 2013
- Cut \$400,000 from Parks Maintenance
- Reduced night-time paratransit/Dial-a-Ride Service
- Eliminated Human Rights Office
- Automating payroll and paying contractors and vendors electronically to save processing time
- Developing "Open Book" to ease access to financial data
- Raised purchasing thresholds to focus more on higher dollar transactions where more money can be saved
- Dramatically improved financial reporting through automation
- Significantly lowered power costs in city buildings
- Implemented server consolidation to save costs for replacement and power

Revenue Options

The Resourcing our Future community conversation begins with this question:

How does the community want to address the unfunded needs in street maintenance, police, fire, parks and recreation?

There are several options to consider. One option is to make deeper cuts to existing services. Another option is to consider new revenue such as increased sales tax, property tax, or fees.

INCREASE SALES TAX

A 1% sales tax increase is the equivalent of 1 penny on a 1-dollar purchase. A sales tax increase would not apply on groceries and prescription drugs.

IMPACT TO AVERAGE HOUSEHOLD

% SALES TAX INCREASE	REVENUE GENERATED	MONTHLY	ANNUAL
1 %	\$22.2 M	\$11	\$132
.85 %	\$18.9 M	\$9.35	\$112
.75 %	\$16.6 M	\$8.25	\$99
.5 %	\$11.1 M	\$5.50	\$66

INCREASE FEES-

STREET MAINTENANCE ONLY

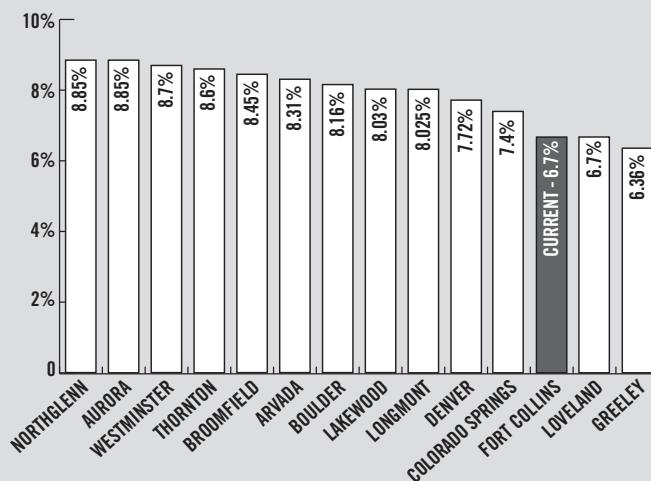
A Street Maintenance Fee has been discussed as a possible revenue source to generate \$6.5 million in revenue for streets maintenance.

INCREASE FEES-

PARK MAINTENANCE ONLY

A Park Maintenance Fee has been discussed as a possible revenue source. Generating \$4 million in revenue would cover the cost of maintenance at community parks and free up resources to help meet other needs.

SALES TAX RATE COMPARISONS



INCREASE PROPERTY TAX

To raise the \$20 million necessary to fund our most basic needs in street maintenance, police, fire, parks and recreation, a mill levy increase of 11.41 mills (more than twice our current rate of 9.797) would be required.

PROPERTY TAX DISTRIBUTION

CITY 11% LARIMER CTY 26% Poudre SCHOOL DISTRICT 59% OTHER 4%*



*Poudre Health Services District & N. Colorado Water Conservancy District

D

APPENDIX D: LINCOLN, NEBRASKA

Appendix D: City of Lincoln, Nebraska

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Chapter 4.20

DESIGN STANDARDS FOR LANDSCAPING STREETSCAPES, MEDIANS, BOULEVARDS, ROUNDABOUTS AND ~~ARTERIAL~~ MAJOR STREETS

The Departments of Public Works and Parks and Recreation are assigned the responsibility of administration of these design standards.

Section 1. GENERAL

(A) Intent

The Design Standards for Landscaping Streetscapes, Medians, Boulevards, Roundabouts and Major streets are intended to promote suitable site preparation and plant material selection, to improve public safety by minimizing sight ~~distance and facility~~ obstructions, to indicate where design elements may or may not warrant additional plant material installation or maintenance costs, and to create an contiguous aesthetic ~~throughout the community image through continuity.~~

(B) Scope

These Design Standards apply to streetscapes where specified and include the design, selection, site preparation, planting and maintenance of suitable landscaping plant materials within or upon designated medians, cul-de-sac circles, boulevards, roundabouts or ~~arterial~~ major streets in the public right-of-way. The requirements of this chapter are in addition to and compliment those set forth in the “Design Standards for Street Trees” and the “Design Standards for Screening and Landscaping” in Titles 2 and 3 of the City of Lincoln Design Standards.

©) Concept

The “**basic**” landscape design concept is a corridor framed by medium or large street trees with low-growing, drought-tolerant turf interspersed with groupings of small, medium and/or large trees in the center median. Site and soil conditions, the desired character of the landscaping and installation and maintenance costs should guide the selection of turf and tree species for this prototypical design. A concrete apron (i.e. “mow strip”) 2' in width/5" thick with a minimum slope of 0.6" per foot draining to the curb, is required around all medians, cul-de-sac circles, boulevards, and roundabouts, for both the “**basic**” and “**enhanced**” design concepts.

The “**enhanced**” landscape design concept includes more intensive landscaping of corridors or portions there of, beyond the “basic” prototypical design of trees and drought-tolerant, low growing turf that requires minimal mowing. Additional groupings of ornamental grasses, shrubs, trees and/or perennial flowers in the center median would be components of an “enhanced” landscape design. The design, installation and maintenance of “enhanced” landscaped corridors would be implemented through a cooperative effort between a developer, neighborhood

1D Design Standards for Landscaping Streetscapes, Medians, Boulevards, Roundabouts and Major Streets (2005)

association and/or business organization and the City. Those desiring an “enhanced” landscape would be required to contribute financially by funding both installation and maintenance costs for installation and maintenance beyond those associated with the prototypical “basic” landscape design.

A required process for approving “Enhanced Landscaping” and/or “Enhanced Streetscaping” within and along Public Right-of-Way Areas has been adopted as Resolution No. A-82058 including the purpose and intent, process and design principles for implementation.

(D) Reference Standards and Ordinances

Where not specified in these Standards, the Director of Public Works and the Director of Parks and Recreation will specify City of Lincoln Design Standards, Lincoln Municipal Code, City of Lincoln Sight Distance Standards for Traffic Safety and City of Lincoln Standard Specifications for Municipal Construction to be applied to the requirements, design, construction and landscaping of streetscapes, medians, cul-de-sac circles, boulevards, roundabouts and major streets within the City of Lincoln public right-of-way.

(E) City Approval Required

All work associated with the design, construction, and landscaping of streetscapes, medians, cul-de-sac circles, boulevards, roundabouts and ~~arterial~~ major streets within or upon any City of Lincoln public right-of-way is subject to City of Lincoln approval as set forth in the City of Lincoln Municipal Code, City of Lincoln Design Standards, and City of Lincoln Standard Specifications for Municipal Construction. See Chapter 2.15, Design Standards for Urban and Public Streets; Chapter 2.35, Design Standards for Street Trees; and Chapter 3.50, Design Standards for Screening and Landscaping.

Section 2. LANDSCAPING PLAN

(A) Landscaping Plan Required

An applicant for development, redevelopment, zoning, rezoning, special use permit or construction approval involving a project or development where the landscaping of streetscapes, medians, cul-de-sac circles, boulevards, roundabouts and/or ~~arterial~~ major streets are required or where prescribed by a City-adopted Community Unit Plan, Planned Unit Development, or special use permit, shall submit a Landscaping Plan for review and approval in compliance with these Standards and other applicable City of Lincoln Design Standards for Land Subdivision Regulations, Zoning Regulations and Titles 12, 14, 26 and 27 of the Lincoln Municipal Code. Any construction activities or enhancements done by the City of Lincoln involving the

1D Design Standards for Landscaping Streetscapes, Medians, Boulevards, Roundabouts and Major Streets (2005)

landscaping of streetscapes, medians, cul-de-sac circles, boulevards, roundabouts and/or ~~arterial~~ major streets shall also be required to have a Landscaping Plan which shall be reviewed and approved by appropriate City departments in compliance with these Standards and other applicable City of Lincoln Design Standards, Lincoln Municipal Code and Standard Specifications for Municipal Construction.

(B) Landscaping Plan Requirements

The Landscaping Plan ~~shall be prepared by a certified Landscape Architect or qualified and experienced Landscape Designer and~~ shall include the following elements:

- (1) Location, type and size of all existing trees and landscaping materials proposed to remain and the construction activity controls, measures, provisions and restrictions recommended to ensure their proper protection.
- (2) Design location, type, number and size of all plant materials proposed to be planted, relocated or removed.
- (3) Botanical and common name/including cultivar of all plant materials listed on plan.
- (4) Location of existing and proposed utilities, streets, medians, cul-de-sac circles, boulevards, roundabouts and public right-of-way boundaries and easements.
- (5) Design specifications and notes for proposed landscaping plant materials, including without limitation, approved plant variety types, number and size of plants to be installed, type of planting stock (i.e. container, balled & burlap, sod, seed, plugs, etc.), location, and installation details illustrating proper planting, mulching, staking, establishment and maintenance techniques.
- (6) Topsoil specifications/qualities for backfill materials and backfill/finish grading specifications in areas to be landscaped.
- (7) ~~Applicable Standard Principal Arterials (i.e. 120', 126', 130', or 136' wide corridor) for designated corridors to be landscaped. See Chapter 2.15, Design Standards for Urban Public Streets.~~

Section 3. SITE PREPARATION

(A) Description

Site preparation includes, without limitation, layout, existing tree and plant materials protection, demolition, clearing, excavation, fill and backfill, top soiling, and finished grading of areas to be

1D Design Standards for Landscaping Streetscapes, Medians, Boulevards, Roundabouts and Major Streets (2005)

landscaped.

(B) Materials

Imported fill for areas of constructed streetscapes, medians, cul-de-sac circles, boulevards, roundabouts and ~~arterial~~ major streets to be landscaped shall be clean, fertile, friable, silty clay loam topsoil that is free from turf, lime, ashes, debris, noxious weeds, plants or roots, stones over 1" in their largest dimension, lumps, clods, salts, soil sterilants or other materials that are detrimental to plant growth. Topsoil shall not be delivered or used while wet, frozen or in a muddy condition. Topsoil shall have an acidity range of pH 6.0 to 7.5 and contain not less than 3 to 5 percent organic matter. Topsoil shall be of a quality to support the growth of landscape plant materials.

©) Excavation

Excavation of existing topsoil shall only be done if specifically required on the approved construction plans to a depth specified in the plans and stockpiled onsite or removed as indicated by the Project Inspector for the City. Excavated topsoil from onsite or that which is required to be hauled in must meet the materials specifications of this Standard for backfill used for constructed streetscapes, medians, cul-de-sac circles, boulevards, roundabouts and ~~arterial~~ major streets that are to be landscaped.

(D) Fill and Backfill Operations

The contractor shall be responsible for obtaining the Project Inspector's approval of the subgrade and finish grade before commencing soil preparation, top soiling, and finish grading or other subsequent operations. The following grading tolerances shall be applied:

- (1) Tolerances shall not exceed 0.1 feet above or below desired subgrade deviation in areas to be landscaped and no tolerance will be allowed on subgrades prepared for paving or site improvements, or subgrades immediately adjacent to curbs, medians, boulevards and/or roundabout pavements.
- (2) Settling of finish grade shall not exceed 0.1 feet.

The contractor shall complete all designated clearing operations before beginning any filling or backfilling.

If sufficient suitable fill or backfill material is not available on the project site, additional topsoil materials shall be furnished and installed in the quantities required and specified in these Standards for backfill used in landscaping constructed streetscape, medians, cul-de-sac circles, boulevards, roundabouts and ~~arterial~~ major streets.

1D Design Standards for Landscaping Streetscapes, Medians, Boulevards, Roundabouts and Major Streets (2005)

Placing fill and backfill in layers not to exceed 6 inches in compacted depth with the following compaction standards:

- (1) Each layer shall be compacted to the specified density. Landscaping fill and backfill shall be compacted to no less than 80 percent and no more than 85 percent density in areas to be planted.
- (2) Compaction shall not occur when soil is wet.

Contractor shall ensure that filling and backfilling shall provide adequate site drainage at all times. Fill or backfill shall not be placed on wet sub soil.

(E) Finish Grading

Finish grading shall consist of cutting, filling, shaping and fine grading work to be done according to the exact lines and elevations indicated on the approved landscaping plans and/or as directed by the Project Engineer/Inspection for the City.

The contractor is responsible for the following:

- (1) Completing all finish grading onsite. The top of the subgrade shall be the depth below the finished grade as required for pavements, walks, seeding, plugging, sodding, landscaping, mulches and other site improvements.
- (2) Protecting the finish grade areas and regrading to correct any irregularities caused by hauling materials or by other operations over the finished grade.
- (3) Repairing any soil erosion or other damage resulting from weathering action before final acceptance.
- (4) Finish and fine grade the project area to establish an even and well matched grade over the entire surface. Positive surface drainage shall be assured and there shall be no depressions, subsequent settling or irregularities in the finished grade.

Excavated and filled sections and adjacent transition areas shall be smooth, properly compacted and free from irregular surface changes, all lumps of soil shall be pulverized, raked out or removed. The degree of finish grading shall be that ordinarily obtained from either blade, grader, or scraper operations. Where finishing cannot be satisfactorily completed with power equipment, hand raked methods shall be used.

Unless otherwise indicated, the subgrade shall be evenly sloped to provide drainage away from site improvements or the centerline of medians. Swales shall be cut as shown on the plans, but shall not reduce the thickness of the topsoil specified.

1D Design Standards for Landscaping Streetscapes, Medians, Boulevards, Roundabouts and Major Streets (2005)

Finish grading shall conform to the grade elevations shown on an approved landscaping plan and the area shall be in a smooth, even condition, free from debris and other materials that would be detrimental to the finished grade. Settling of any finish grade shall not be more than 0.1 feet, and if settling is greater, the contractor shall bring the grade to specified elevations.

Section 4. PLANT SELECTION AND PLACEMENT

(A) Plant Materials

- (1) Specific plant materials designated on the landscape plan to be planted in the public right-of-way shall be selected from the **Approved Lists** contained within these standards, unless an alternate plant selection has been approved by the ~~City~~ Parks and Recreation Department.
- (2) Plant selection and placement shall be designed and based upon the expected mature height and spread of the selected species, to prevent unnecessary competition or overcrowding of plants and to ensure that the selected plants remain within the median strip, cul-de-sac circles, planting strip, public easement, and/or roundabout width when mature without requiring excessive or frequent pruning.
- (3) Plant selection and placement shall be designed to avoid or minimize traffic sight obstructions and be in conformance with the City of Lincoln's Traffic Safety Sight Distance Standards where applicable and practical. Plantings for medians, cul-de-sac circles, ~~arterial~~ major streets, and roundabouts must be designed to allow for visual access between vehicles and pedestrians in the vicinity of intersections and street access drives. Refer to Chapter **12.20 TREES AND SHRUBBERY** section **12.20.070 Height and Spread Limitations for Landscape Plantings Within the Sidewalk Space; Special Assessment for Failure to Maintain**. ~~Thus, a clear zone between 24 30 inches and 6 8 feet above the elevation of the roadway is required for clear lines of sight at intersections, left turn lanes, center medians, and street access drives.~~ In addition, it is recommended that sufficient space be left between individual trees and/or clumps of trees as "windows" for motorists to monitor the locations of vehicles in other traffic lanes. Spacing of street trees planted between the curb and sidewalk/trail along ~~arterial~~ major streets should be done according to the posted speed limit as noted in the city of Lincoln Sight Distance Standards for Traffic Safety.
- (4) Plant selection and placement shall be designed to avoid conflict with street lights, traffic lights, traffic signs, fire hydrants, crosswalks, intersections, sidewalks, bicycle/pedestrian trails, overhead utility wires, utility easements, and take into consideration the depth and location of underground utilities.

1D Design Standards for Landscaping Streetscapes, Medians, Boulevards, Roundabouts and Major Streets (2005)

- (5) Street trees and/or center median trees shall not be planted any closer than 6 feet from back of curbs and no closer than 4 feet from sidewalks/trails; no closer than 15 feet from street lights, utility poles or traffic signal poles; no closer than 10 feet from fire hydrants; no closer than 15 feet from street access drives/alleys; no closer than 25 feet from the property corner adjacent to the street right-of-way intersection; no medium and/or large maturing tree types beneath overhead electrical wires.
- (6) Plant selection and placement of landscape screens for **commercial areas/parking** lots along ~~arterial~~ major streets would be for spaces five feet or wider between the parking lot and the private property lot line within the front yard setback. The expected mature height and spread of plant materials used for such landscape screens should remain within the width of the existing space between the parking lot and the private property line within the front yard setback without requiring excessive or frequent pruning. Such plantings **shall not encroach** onto any public sidewalk or bicycle/pedestrian trail and shall conform to the City of Lincoln's Sight Distance Standards for Traffic Safety for driveways or alleys adjacent to such areas.
- (7) Plant selection and placement of landscaping in the six (6) feet of green space located between the sidewalk and/or bicycle/pedestrian trail and the **right-of-way** line along ~~arterial~~ major streets (~~i.e. 126 feet wide public way corridor~~) will be extremely restrictive due to space limitations and the location of the adjacent sidewalk and trail. Plant materials should not encroach upon sidewalks and/or trails when fully mature and should not be planted any closer than four (4) feet from the sidewalk and/or trail. ~~If trees are planted between sidewalks/trails and the right-of-way line, they need to be an approved species that can eventually be pruned to a clearance of ten (10) feet above the sidewalk/trail if their lateral branching will or does extend into and/or over them.~~

Section 5. PLANTING

(A) Description

Planting includes, without limitation, the placement of specified plant materials, seed, sod and/or plugs, as shown on the approved landscape plan, the placement of materials to protect and enhance plant growth, and the methods applied in planting and maintaining landscape plants.

(B) Specifications

Specified sizes and types (i.e. container, balled & burlapped, etc.) of plant materials (i.e. nursery grown trees, shrubs, ornamental grasses, perennials, wildflower seed mixtures, turf-type seed, sod or plugs, etc.) shall be determined by the City prior to the design of landscaping plans. City of Lincoln Standard Specifications for **Landscape Work** and **Seeding and sodding** shall be used where applicable in the installation and maintenance of landscaping done on the City right-of-way.

Section 6. APPROVED STREET-TREE LIST FOR NON-PAVED PLANTING STRIPS, MEDIANS, CUL-DE-SAC CIRCLES, BOULEVARDS, AND ROUNDABOUTS AND MAJOR STREETS

*Trees listed will do well provided the appropriate species is selected for a particular site and proper care is given (see Section 7. “Tree Characteristics”). The trees on this list offer a wide range of varieties and cultivars. Tree names are followed by acceptable tree varieties that may be used in streetscapes with **restrictions footnoted**. Other available varieties or cultivars of the tree types listed may be used, subject to City Parks and Recreation Department approval. Trees are listed in alphabetical order and are not prioritized according to their suggested use.*

Small Maturing Trees (Under 25' Mature Height) Required Planting Strip Width 4' - 5' Minimum Spacing Between Trees 20' Minimum, 25' Recommended	Medium Maturing Trees (30'-40' Mature Height) Required Planting Strip Width 6'-8' Minimum Spacing Between Trees 30' Minimum, 35' Recommended	Large Maturing Trees (Over 45' Mature Height) Required Planting Strip Width 8' Minimum Spacing Between Trees 40' Minimum, 45' Recommended
Ash - <i>Fraxinus pennsylvanica</i> 'Leprechaun'	Goldenraintree - <i>Koelreuteria paniculata</i>	Ash - <i>Fraxinus pennsylvanica</i> (‘Cimmaron’, ‘Marshall’s Seedless’ 'Patmore')
Crabapple - <i>Malus spp.</i> Disease resistant varieties, ‘Donald Wyman’, ‘Centurion’, ‘Harvest Gold’, ‘Indian Summer’, ‘Prairifire’, ‘Professor Sprenger’, Robinson’, ‘Sugar Tyme’	Honey locust - <i>Gleditsia triacanthos var. inermis</i> (‘Imperial’)	Ash - <i>Fraxinus americana</i> (‘Autumn Purple’)
Lilac, Japanese Tree - <i>Syringa reticulata</i> (‘Ivory Silk’ - tree form)	Linden, Little-leaf - <i>Tilia cordata</i> (‘Greenspire’)	Bald Cypress* - <i>Taxodium distichum</i>
Maple, Amur - <i>Acer ginnala</i> (‘Flame’ - tree form)	Maple, Black - (<i>Acer nigrum</i>) 'Greencolumn'	Coffeetree, Kentucky - <i>Gymnocladus dioica</i>
Maple, Tatarian - <i>Acer tatarium</i> - tree form	Pear - <i>Pyrus calleryana</i> (‘Aristocrat’, ‘Chanticleer’, ‘Capital’, ‘Redspire’)	Elm, American - <i>Ulmus americana</i> (‘Homestead’, ‘Pioneer’)
Redbud - <i>Cercis canadensis</i> - tree form		Ginkgo - <i>Ginkgo biloba</i> (‘Autumn Gold’, ‘Princeton Sentry’, ‘Saratoga’)
Serviceberry - <i>Amelanchier spp.</i> (‘Autumn Brilliance’, ‘Cole Select’ - tree form)		Hackberry, Common - <i>Celtis occidentalis</i>
		Honeylocust - <i>Gleditsia triacanthos var. inermis</i> (‘Skyline’)
		Maple, Norway - <i>Acer platanoides</i> (‘Emerald Lustre’ or ‘Emerald Queen’)
		Maple, Red - <i>Acer rubrum</i> (‘Red Sunset’)

1D Design Standards for Landscaping Streetscapes, Medians, Boulevards, Roundabouts and Major Streets (2005)

		Oak, Bur - <i>Quercus macrocarpa</i>
		Oak, Swamp White - <i>Quercus bicolor</i>
		Pine, Limber * - <i>Pinus flexilis</i> (‘Vanderwolf’s Pyramid’)
		Concolor Fir * - <i>Abies concolor</i>
		Spruce, Black Hills* - <i>Picea glauca densata</i>
Small Maturing Trees (Under 25' Mature Height) Required Planting Strip Width 4' - 5' Minimum Spacing Between Trees 20' Minimum, 25' Recommended	Medium Maturing Trees (30'-40' Mature Height) Required Planting Strip Width 6'-8' Minimum Spacing Between Trees 30' Minimum, 35' Recommended	Large Maturing Trees (Over 45' Mature Height) Required Planting Strip Width 8' Minimum Spacing Between Trees 40' Minimum, 45' Recommended
		Spruce, Colorado* - <i>Picea pungens</i>
		Spruce, Serbian* - <i>Picea omorika</i>

***Coniferous trees are not allowed between the curb and sidewalk, curb and bicycle/pedestrian trail, or certain other locations within the City right-of-way of residential or major streets due to traffic sight clearance requirements.**

Section 7. TREE CHARACTERISTICS

The following table describes the typical characteristics of specific deciduous and coniferous trees (see restrictions footnote) on the **Approved Street Tree List** for Lincoln when planted in non-paved planting strips, medians, boulevards, roundabouts, and major streets located within and/or adjacent to the public right-of-way of city streets. Trees growing in paved areas will typically have an overall mature height of approximately 1/3 less than that of trees in non-paved areas.*

Small Maturing Trees (Under 25' Mature Height)

COMMON & SCIENTIFIC NAME	SIZE AND FORM	CHARACTERISTICS
Ash <i>Fraxinus pennsylvanica</i> (‘Leprechaun’)	18' ht., 16' spread, round	Genetic dwarf form of Green Ash. Small to medium green leaves turn yellow in fall. Dense canopy matures to a compact, rounded shape.
Crabapple <i>Malus</i> (‘Centurion’)	20'-25' ht., 15' spread, upright oval	Adaptable water requirements once established, red buds open to <u>rose red flowers</u> , tolerates acid, alkaline, wet & dry soils, requires full sun, good to excellent disease resistant
Crabapple <i>Malus</i> (‘Donald Wyman’)	20' ht., 20' spread, broad globe	Adaptable water requirements once established, red to pink buds open to <u>white flowers</u> , tolerates acid, alkaline, wet & dry soils, requires full sun, good disease resistance

1D Design Standards for Landscaping Streetscapes, Medians, Boulevards, Roundabouts and Major Streets (2005)

Crabapple <i>Malus</i> ('Harvest Gold')	20' ht., 15' spread, upright to vase-shaped	Adaptable water requirements once established, red to pink buds open to <u>white flowers</u> , tolerates acid, alkaline, wet & dry soils, requires full sun, good disease resistant.
Crabapple <i>Malus</i> ('Indian Summer')	18' ht., 20' spread, rounded	Adaptable water requirements once established, red buds open to <u>rose red</u> to deep pink flowers, tolerates acid, alkaline, wet & dry soils, requires full sun, good to excellent disease resistance
Crabapple <i>Malus</i> ('Prairifire')	20' ht., 15' spread, moderate upright to rounded	Adaptable water requirements once established, red buds open to <u>purplish red</u> flowers, tolerates acid, alkaline, wet & dry soils, requires full sun, excellent disease resistant
COMMON & SCIENTIFIC NAME	SIZE AND FORM	CHARACTERISTICS
Crabapple <i>Malus</i> ('Professor Sprenger')	20' ht., 20' spread, upright spreading	Adaptable water requirements once established, red to pink buds open to <u>white flowers</u> , tolerates acid, alkaline, wet & dry soils, requires full sun, excellent disease resistant
Crabapple <i>Malus</i> ('Robinson')	25' ht., 25' spread, upright spreading to rounded	Adaptable water requirements once established, crimson buds open to <u>deep pink flowers</u> , tolerates acid, alkaline, wet & dry soils, requires full sun, good to excellent disease resistant
Crabapple <i>Malus</i> ('Sugar Tyme')	18' ht., 15' spread, upright oval	Adaptable water requirements once established, pale pink buds open to <u>sugar white flowers</u> , tolerates acid, alkaline, wet & dry soils, requires full sun, fair to good disease resistance
Lilac, Japanese Tree <i>Syringa reticulata</i> ('Ivory Silk')	20' ht., 15' spread, moderate globe, plant tree form only	Adaptable water requirements once established, attractive <u>white flowers</u> in June, requires full sun, tolerant of road salt spray
Maple, Amur <i>Acer ginnala</i> ('Flame')	20' ht., 20' spread, moderate, upright, plant tree form only	Drought tolerant once established, can become chlorotic in alkaline soils, brilliant red-orange fall color, requires full sun, tolerant of road salt spray
Maple, Tatarian <i>Acer tataricum</i>	20'-25' ht., 15'-20' spread, oval to rounded, plant tree form only	Drought tolerant once established, seeds are a rosy-red color, yellow to orange fall color, requires full sun, tolerant of road salt spray
Redbud <i>Cercis canadensis</i>	20-25'ht., 20-25'spread, moderately globe-shaped, plant tree form only	Moist to adaptable water requirements, needs protected location, <u>pink to lavender blossoms</u> in early spring, yellow fall color, prefers filtered shade to shade
Serviceberry <i>Amelanchier x grandiflora</i> ('Autumn Brilliance' or 'Cole Select')	25' ht., 15' spread, round, plant tree form only	Adaptable water requirements once established, tolerates acid, wet & dry soils, <u>white flowers</u> in spring, red-orange fall color, grows in sun or shade, tolerant of road salt spray

1D Design Standards for Landscaping Streetscapes, Medians, Boulevards, Roundabouts and Major Streets (2005)

Medium Maturing Trees (30'-40' Mature Height)

COMMON & SCIENTIFIC NAME	SIZE AND FORM	CHARACTERISTICS
Goldenraintree <i>Koelreuteria paniculata</i>	30' ht., 25' spread, round	Drought tolerant once established, tolerates acid, alkaline & dry soil, <u>attractive yellow flowers</u> in mid-summer, yellow fall color, grows in full sun or partial shade
Honey locust <i>Gleditsia triacanthos</i> var. <i>inermis</i> ('Imperial')	35' ht., 35' spread, round	Drought tolerant once established, tolerates acid, alkaline, wet & dry soils, full sun to light shade, yellow fall color, cankers can be a problem, tolerant of road salt spray
Linden, Little-leaf <i>Tilia cordata</i> ('Greenspire')	40' ht., 30' spread, moderately pyramidal	Tolerates alkaline soil, withstands compaction, adaptable water requirements once established, salt sensitive, suckers, yellow fall color, grows in full sun or partial shade
COMMON & SCIENTIFIC NAME	SIZE AND FORM	CHARACTERISTICS
Maple, Black <i>Acer nigrum</i> ('Greencolumn')	40' ht., 25' spread, columnar to moderately oval	Adaptable water requirements once established, susceptible to leaf scorch and sun scald thus limited use, yellow fall color, requires full sun
Pear <i>Pyrus calleryana</i> ('Aristocrat')	40' ht., 35' spread, pyramidal	Adaptable water requirements once established, tolerates salt & alkaline soils, attractive white flowers in spring, purple-red fall color, requires full sun or partial shade
Pear <i>Pyrus calleryana</i> ('Chanticleer' or 'Capital')	35'- 40' ht., 15' spread, narrow pyramidal	Adaptable water requirements once established, tolerates salt & alkaline soils, attractive white flowers in spring, reddish-purple fall color, requires full sun to partial shade
Pear <i>Pyrus calleryana</i> ('Redspire')	35' ht, 25' spread, pyramidal	Adaptable water requirements once established, tolerates salt & alkaline soils, attractive white flowers in spring, yellow to red fall color, requires full sun or partial shade, slight fireblight susceptibility

Large Maturing Trees (Over 40' Mature Height)

COMMON & SCIENTIFIC NAME	SIZE AND FORM	CHARACTERISTICS
Ash <i>Fraxinus pennsylvanica</i> ('Cimmaron', 'Marshall's Seedless' or 'Patmore')	45' - 50' ht., 30' - 40' spread, upright oval to broadly ovate	Adaptable water requirements once established, tolerates salt and alkaline soils, yellow fall color, tolerant of road salt spray, requires full sun
Ash <i>Fraxinus americana</i> ('Autumn Purple')	45' ht., 40' spread, rounded	Adaptable water requirements once established, requires some supplemental water during prolonged dry periods, tolerant of road salt spray, reddish-purple fall color, requires full sun

1D Design Standards for Landscaping Streetscapes, Medians, Boulevards, Roundabouts and Major Streets (2005)

Bald Cypress* <i>Taxodium distichum</i>	50' ht., 20' - 30' spread, moderately pyramidal	Deciduous conifer, good on both wet and dry sites once established, golden yellow fall color, tolerant of road salt spray, requires full sun
Coffeetree, Kentucky <i>Gymnocladus dioica</i>	50' ht., 40' - 50' spread, moderately globe	Drought tolerant once established, tolerant of alkaline soils, tolerant of road salt spray, free from insect and disease problems, may have seed pods, requires full sun
Elm, American <i>Ulmus americana</i> ('Homestead' or 'Pioneer')	50' ht., 35' - 50' spread, upright oval to rounded	Highly resistant to Dutch Elm Disease, good drought tolerance once established, tolerant of road salt spray, yellow fall color
Ginkgo <i>Ginkgo biloba</i> ('Autumn Gold' or 'Princeton Sentry' or 'Saratoga')	50' ht., 25' - 35' spread, narrow to broad pyramidal	Good drought tolerance once established, tolerant of road salt spray, yellow fall color, requires full sun, free from insect and disease problems
Hackberry, Common <i>Celtis occidentalis</i>	50' ht., 40' spread, moderately globe	Drought tolerant once established, tolerant of salt and wide range of soil conditions, yellow fall color, requires full sun
COMMON & SCIENTIFIC NAME	SIZE AND FORM	CHARACTERISTICS
Honey locust <i>Gleditsia triacanthos</i> var. <i>inermis</i> ('Skyline' or 'Shademaster')	45' ht., 35' spread, broad pyramidal	Drought tolerant once established, tolerant of salt and alkaline soils, tolerant of road salt spray, yellow fall color, susceptible to insect & disease problems, requires full sun
Maple, Norway <i>Acer platanoides</i> ('Emerald Lustre' or 'Emerald Queen')	45'-50' ht., 40' spread, broad oval to globe-shaped	Adaptable water requirements once established, susceptible to leaf scorch and sun scald thus limited use, yellow fall color, requires full sun
Maple, Red <i>Acer rubrum</i> ('Red Sunset')	45' ht., 35' spread, upright oval	Adaptable water requirements once established, may develop chlorosis when grown in highly alkaline soils, salt sensitive, susceptible to sun scald and leaf scorch thus limited use, red-orange fall color, requires full sun
Oak, Bur <i>Quercus macrocarpa</i>	55' ht., 45' spread, broad oval	Drought tolerant once established, tolerant of a wide range of soil types, yellow to brown fall color, requires full sun
Oak, Swamp White <i>Quercus bicolor</i>	50' ht., 50' spread, round	Drought tolerant once established, good or poorly drained or compacted soils, can become chlorotic in alkaline soils, yellow fall color, requires full sun
Pine, Limber* <i>Pinus flexilis</i> ('Vanderwolf's Pyramid')	40' ht., 25' spread, pyramidal, upright	Does best on well drained soils, adaptable to dry clay soils, blue-green needles, requires full sun.
Concolor Fir* <i>Abies concolor</i>	40' ht., 20' spread, pyramidal, upright	Does best on well drained soils, adaptable to dry clay soils, blue-green needles, requires full sun.
Spruce, Black Hills* <i>Picea glauca densata</i>	45' ht., 25' - 35' spread, pyramidal	Adaptable to environmental extremes once established, good tolerance to road salt spray, best in full sun, but tolerant of some shade
Spruce, Colorado* <i>Picea pungens</i>	45' ht., 25' - 35' spread, pyramidal	Does best on moist to average soils, most tolerant spruce for dry sites, tolerant of road salt spray, requires full sun
Spruce Serbian* <i>Picea omorika</i>	45' ht., 8' - 12' spread, narrow nrvamidal	Tolerates acid, alkaline and dry soils, prefers moist and well-drained soils. requires full sun

1D Design Standards for Landscaping Streetscapes, Medians, Boulevards, Roundabouts and Major Streets (2005)

***Coniferous trees are not allowed between the curb and sidewalk, curb and bicycle/pedestrian trail, or certain other locations within the City right-of-way of residential or arterial streets due to traffic sight clearance requirements.**

Section 8. SHRUB CHARACTERISTICS

*The following table describes the typical characteristics of specific shrubs on the **Approved Shrub List** for Lincoln when planted in **enhanced** non-paved medians, roundabouts, boulevards and parking strips located within and/or adjacent to the public right-of-way of city streets.*

COMMON & SCIENTIFIC NAME	SIZE AND FORM	CHARACTERISTICS
Genista spp. (<i>Common Woadwaxen or Dyer's Greenwood</i>)	2'-3' ht., 2'-3' spread	Prefers hot, sunny locations in relatively infertile soils which are dry and loamy. Thrives in limestone soil. No serious diseases. Low growing plants for poor dry soils.
Hypericum supp. (<i>St. Johnswort</i>) Recommendations: fronosum (<i>Golden St. Johnswort</i>) kalmianum "Kalm St. Johnwort	3'-4' ht., 3'-4' spread	
Juniperus spp. Recommendations: horizontalis (<i>Creeping Juniper</i>) sabina (<i>Savin Juniper</i>) (<i>Broadmore</i>) (<i>Buffalo</i>)	Trees and shrubs variable height and spread.	Tolerates limestone soils, full sun, pH adaptable.
Lonicera japonica, (Honeysuckle, Japanese) Recommendations: L. x xylosteadies (<i>Emerald Mound</i>)	A twining vine growing 15'-30'.	Full sun to part shade. Tolerant of clay soils and dry conditions.
Polygonum japonicum var. compactum	2' ht., spreading	Low growing Fleece Flower has greenish white flowers, small reddish fruit. Full sun or shade, does well in dry soil, vigorous habit.
Ribes, (Current) Recommendations: alpinum (<i>Alpine Currant</i>) odoratum (<i>Clove Currant</i>)	3'-6'ht., 3'-6' spread	Works well in high pH soil.
Rhus spp. (Sumac) Recommendations: aromatica, (<i>Gro-low Sumac</i>) glabra, (<i>Smooth Sumac</i>)	2'-2.5'ht., 6'-40' spread	Adapted to many soil types from clay to sterile soil. Tolerates very dry soil conditions. Performs well along road-sides.
Rosa spp.	Variable	New low maintenance roses tend to be pest and disease free.

1D Design Standards for Landscaping Streetscapes, Medians, Boulevards, Roundabouts and Major Streets (2005)

COMMON & SCIENTIFIC NAME	SIZE AND FORM	CHARACTERISTICS
Spirea spp. Recommendations: S. x bumalda S. x japonica		
Symphoricarpos, (Coralberry) x. chenultii	3'-6' ht., 6'-8' spread, low arching, spreading	Small, dark blue-green ovate leaves, foliage holds on late in fall. Full sun to partial-shade tolerant. Tolerant of any soil type, native on limestone and clay.

Section 9. ORNAMENTAL GRASS CHARACTERISTICS

The following table describes the typical characteristics of specific ornamental grasses on the **Approved Ornamental Grass List** for Lincoln when planted in **enhanced** non-paved medians, roundabouts, boulevards and parking strips located within and/or adjacent to the public right-of-way of city streets. This plant list will be updated administratively on a regular basis. This list is not meant to be inclusive, site conditions and design intent need to be taken into consideration while using the following list.

COMMON & SCIENTIFIC NAME	SIZE AND FORM	CHARACTERISTICS
Bouteloua curtipendula, (Grama, sideoats) Recommendations: 'Trailways'	2'-3' ht., 1.5' spread, upright clump	Graceful foliage, flowers dangle one-sided on flowering stems like bells. Clumping, warm-season grass. Drought tolerant.
Bouteloua gracilis, (Blue Grama)	1'-2' ht., .5'-1' spread, upright clump	Fine textured, curly, narrow leaves. One sided seed spikes with eyelash-like inflorescence. Warm season grass. Tolerant of extreme heat or cold.
Buchloe dactyloides, (Buffalo grass)	4"-6" ht., 6"+ spread, spreading	Gray-green fine textured, low sod-forming warm season grass, tolerates poor soils, drought conditions, but not wet soils, needs well drained soil.
Calamagrostis acutiflora, (Feather reed grass) Recommendations: acutiflora (x) 'Karl Foerster' acutiflora (x) 'Overdam'	2'-6' ht., 2'-4' spread, upright clump	Slender, wiry leaves with taller flower stalks, turning golden brown in late summer.
Chasmanthium latifolium, (Northern Sea Oats)	2'-3'ht., clumping	Attractive drooping seed heads. Drought resistant, tolerates a variety of soil conditions. Prefers moist loamy soil.
Elymus arenarius Recommendations: glaucous, 'Blue Lyme Grass'	1'-3'ht., spreads by rhizomes.	Blue-green foliage. Tough plant, salt tolerant. Can become invasive.
Eragrostis trichoides., (Sand Lovegrass)	3' ht., upright clumping.	Cool, grass with arching seed heads. Prefers moist, well drained sandy, fertile soils.

1D Design Standards for Landscaping Streetscapes, Medians, Boulevards, Roundabouts and Major Streets (2005)

Miscanthus sinensis , (<i>Eulalia grass</i>)	3'-12'ht., 3'+ spread, upright clump	Leaves grow up then out to cascade, turns various shades of tan or gold in fall, many cultivars.
Panicum virgatum (<i>Switch Grass</i>) Recommendations: 'Heavy Metal'	3'-3.5'ht., upright clumping	Stiff, powder blue leaves. Turns bright yellow in the fall.
Pennisetum alopecuroides , (<i>Chinese pennisetum</i>) Recommendations: 'Hamlin'	3'-4' ht., 3'-4' spread, upright clump	Fine textured green foliage in summer, light brown in fall, silver-purple flower spikes. Prefers moist well drained soil.
Sporobolus heterolepis , (<i>Prairie Dropseed Grass</i>)	2' ht., 1.5'-2' spread, upright arching	Narrow leaved, fragrant native grass, emerald in summer, gold in fall, panicles of small flowers.
Schizachyrium scoparium (<i>Little bluestem</i>)	1'-2' ht., 1' spread, upright clump	Green leaves with a hint of blue at the base, red throughout fall and winter, blue cultivars available, native

Section 10. PERENNIAL CHARACTERISTICS

The following table describes the typical characteristics of specific perennials on the **Approved Perennial List** for Lincoln when planted in **enhanced** non-paved medians, roundabouts, boulevards and parking strips located within and/or adjacent to the public right-of-way of city streets.

COMMON & SCIENTIFIC NAME	SIZE AND FORM	CHARACTERISTICS
Achillea spp. (<i>Yarrow, Milifol</i>) Recommendations: 'Coronation Gold' 'Moonshine'	2' ht., 2' spread, compact.	Fern-like gray-green foliage. Narrow leaves, white to yellow, red to purple flowers, full sun. Well drained soil. Some invasive varieties will tolerate drought conditions.
Amsonia spp. (<i>Threadleaf Blue Star</i>) Recommendations:--- ciliata hubrichtii	2 ½'-3' mounds	Blue flowers, thread-like leaves, nice yellow color in fall.
Artemisia spp. Recommendations: abrotanum 'Southernwood'	1'-5'ht., 1.5'-3' spread, can be variable	Grey to silver leaves, range from tall erect to low mounding plants. Thrive in ordinary soil. Prefers poor, well drained soil.
Asclepias spp. (<i>Silkweed</i>) Recommendations: tuberosa, 'Butterfly Milkweed'	2'-3' ht.	Wildflower. Native wet-land plant. Tough durable plant once established.

1D Design Standards for Landscaping Streetscapes, Medians, Boulevards, Roundabouts and Major Streets (2005)

COMMON & SCIENTIFIC NAME	SIZE AND FORM	CHARACTERISTICS
Aster spp. Recommendations: fendleri <i>[rock aster]</i> novae-angliae 'Purple Dome' novi-belgii 'Snowball'	2'-3' ht., 1.5' spread, can be variable.	Stout hairless stems, many different colors and sizes of flowers available. Prefers full sun, high organic well drained soil. Some varieties are stoloniferous.
Callirhoe spp., (<i>Wine cups, Purple poppy mallow</i>) Recommendations: alcaeoides 'Logan Calhoun' bushii, 'Bush's Poppy Mallow' involucrata, 'Wine Cup'	8"-12"ht., 1' spread, spreading.	Low growing with cut leaves, pink , purple or white cup shaped flowers, flowering all summer, native, full sun.
Coreopsis spp. Recommendations: auriculata, 'Nana' grandiflora, 'Early Sunrise' palmata, 'Stiff Coreopsis' verticillata, 'Moon Beam & Zagre'	9"-2' ht., 1'-3' spread.	Dark green leaves to feathery leaves. Bright yellow flowers, thrives in full sun, well drained soil. Drought tolerant.
Euphorbia spp. Recommendations: myrsinites, polychroma, nicaeensis	1'-3'ht., 1-3' spread.	Tolerates dry, well drained, poor soils. Bushy erect with blue green, glaucous fleshy leaves. Clusters of yellow flowers.
Gaillardia spp. (Blanket Flower) Recommendations: grandiflora 'Baby Cole, Goblin & Monarch'	18"-25"ht., 12" spread.	Seeding wild flower. Daisy-like flower with many shades of yellow, scarlet and bronze. Heat and drought tolerant. Needs well drained soil.
Geranium spp. (Cranesbill) Recommendations: endressii, 'Wargrave Pine' 'Johnson Blue' macrorrhizum, sanguineum	1'ht., 1.5'spread. Moundy	Very hardy and durable, full sun, ordinary soil, long blooming, essentially pest and disease free. Require well drained soil. Good fall red color.
Hemerocallis spp. (Daylily) Recommendations: many varieties	1'-4' ht., 2'-3' spread, arching leaves.	Wide color range of trumpet flowers blooming from early summer to early autumn. Prefers high organic soil-well drained soil. Fairly heat and drought tolerant.
Knautia macedonica, Recommendations: 'Scabiosa rumelica'	2'ht., 2'spread.	Many tiny dark purple to dark red scabiosa like flowers. Prefers warm, sunny, dry sites including sloping landscapes.
Lespedeza spp. (Bush Clover) Recommendations: bicolor, 'Bush Clover' capitata, 'Round-headed L.' virginica, 'Slender Bush Clover'	2'-3'ht., 2'-3'spread.	Native, warm-season, deep-rooted hardy perennial legume. Clusters of small purple, white or pink flowers in August and September.

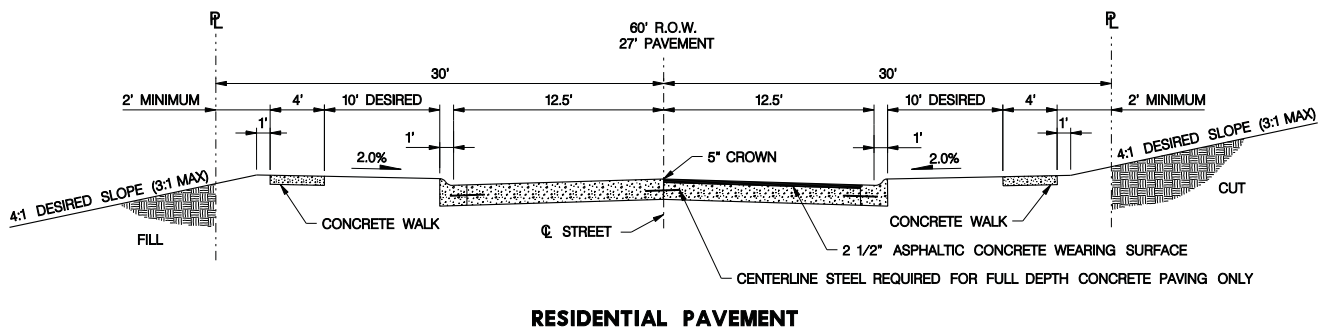
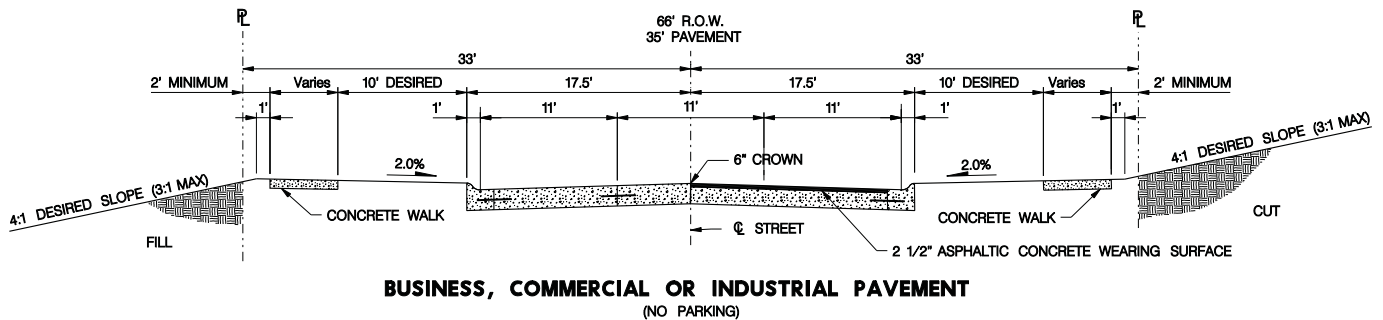
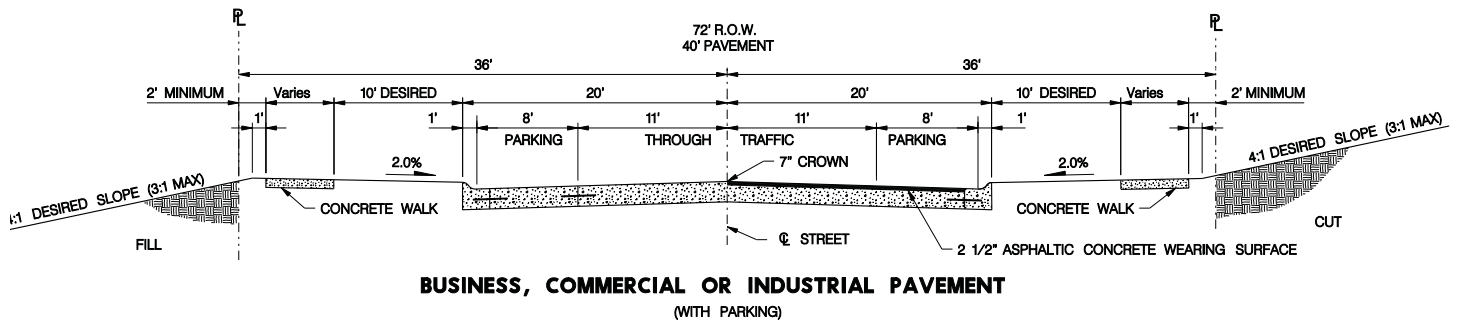
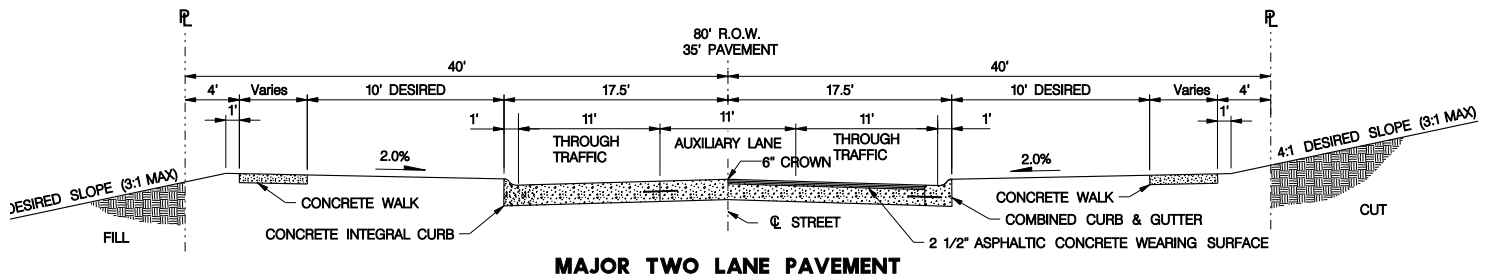
1D Design Standards for Landscaping Streetscapes, Medians, Boulevards, Roundabouts and Major Streets (2005)

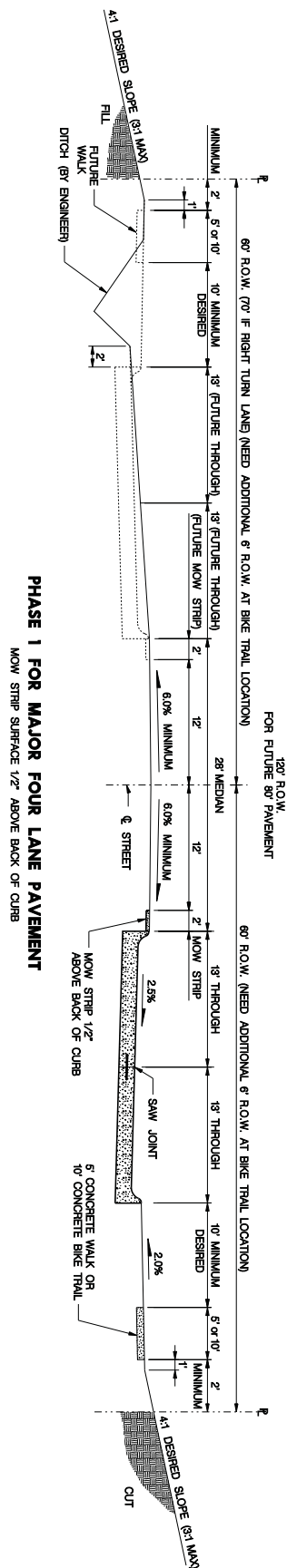
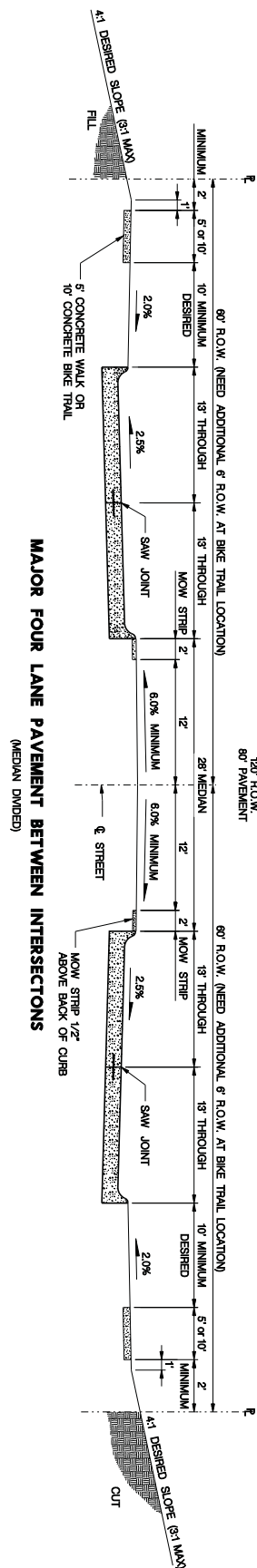
COMMON & SCIENTIFIC NAME	SIZE AND FORM	CHARACTERISTICS
Liatris spp. (<i>Blazing Star or Gayfeather</i>) Recommendations: aspera, 'Rough Blazing Star' punctata spicata, "Floristan Violet"	2'-4' ht., 1.5' spread, erect.	Glabrous stems with sessile flower heads, purple florets with purple bracts, native, drought resistant, full sun, well drained soils.
Linaria spp. Recommendations: purpurea, 'Purple Toad Flax'	3' ht.	Attractive grey-green narrow leaves. Snapdragon like flowers of pink and purple
Linum spp. (<i>Flax</i>) Recommendations: perenne, 'Lewisii'	10"-18"ht.	Pretty-blue flowers-native
Nepeta spp. (<i>Catmint</i>) Recommendations: x faassenii, 'Faassen's Catnip' x faassenii, 'Walker's Low'	8"-3'ht., 2'-3' spread.	Aromatic plants with small gray-green foliage. Thrive in hot, sunny areas in well drained soil. Drought tolerant.
Oenothera spp. (<i>Evening Primrose or Sundrops</i>) Recommendations: fruticosa subsp. glauca macrocarpa, 'Silver Blade' m., 'Comanche Campfire'	9"-2' ht., 2' spread, sprawling.	Large lemon-yellow flowers, native plant with narrow dark green or silvery leaves, requires full sun and fertile soil with free drainage but tolerates poor, dry soil.
Origanum laevigatum (<i>Herrenhausen</i>)	2'ht., and equal spread	Sub-shrub with small aromatic leaves. Small pink flowers and red-purple bracts. Late summer to fall color.
Penstemon spp. (<i>Beard Tongue</i>) Recommendations: barbatus, 'Praecox Nanus' grandiflorus, 'Shell-Leaf P.'	8"-3' ht., 2'-3' spread, erect stem.	Showy flowers, full sun, well drained, non-fertile soil with little to no organic matter.
Petalostemon spp. (<i>Prairie Clover</i>) Recommendations: candidum, 'White Prairie Clover' purpureum, 'Purple Prairie Clover'	2'-3' ht., 2"-3' spread.	Erect prairie legume with cylindrical heads of flowers, whites, and purples. Native to U.S.
Persicaria spp. (Formerly Polygonum) Recommendations: affinis, 'Himalayan Border Jewel' amplexicaulis, 'Rosea'	4"-30"ht. Spreading.	Creeping ground-cover. Glossy green leaves with light pink flowers. Heat and drought tolerant.

1D Design Standards for Landscaping Streetscapes, Medians, Boulevards, Roundabouts and Major Streets (2005)

COMMON & SCIENTIFIC NAME	SIZE AND FORM	CHARACTERISTICS
Perovskia atriplicifolia , (<i>Russian Sage</i>) Recommendations: dwarf variety	3'-4' ht., 1.5'-2' spread up-right habit.	Silvery Gray stems and fine foliage, erect and stiff. Spikes of lavender blue flowers. Drought tolerant but requires good drainage.
Pycnanthemum muticum (<i>Mountain Mint</i>)	12"-30" ht.	Fragrant purple to lavender flower color in tufts of silver foliage.
Rudbeckia spp. (<i>Black-eyed Susan</i>) Recommendations: fulgida, 'Goldstrum' nitida, 'Hersestonne'	18"-30"ht., 3' spread, erect.	Lanceolate leaves on long petioles, smaller stem leaves are sessile, flowers are bright orange yellow rays with brownish purple blunt disks, full sun.
Salvia spp. Recommendations: nemorosa, 'Blauhugel' n. x 'Mainacht' verticillata 'Purple Rain'	18"ht., 24" spread.	Drought tolerant, requires good drainage and regular soil. Violet-blue flowers with oblong green leaves.
Sedum spp. (<i>Stonecrops</i>) Recommendations: 'Herbstfreude' [Autumn Joy]	1'-2' ht., 1' spread, spreading to upright.	Simple stems with fleshy sessile leaves, dense clusters of pink to red to purple flowers, winter interest, full sun. Prefers well drained soil. Drought tolerant.
Senecio doria Recommendations: plattenensis, "Prairie Ragwort"	16-18" ht.	Yellow flowers with orange centers blooming from May to June. Basal leaves have maroon undersides. Native to dry prairies
Solidago spp. (<i>Golden Rod</i>) Recommendations: sphacelata, 'Golden Fleece' 'Wichita Mountains'	10"-30"ht.	Spike-like racemes of golden flowers in late summer and fall. Drought resistant. Native species can spread rapidly.
Stachys spp. (<i>Betony, Lambs Ears, Woundwort</i>) Recommendations: byzantina, 'Helen von Stein' byzantina, 'Silver Carpet'	1' ht., 1.5' spread.	Silvery foliage spreads to form a thick mat of white-wooly leaves. Tolerates hot conditions, poor soils but requires good drainage.
Yucca spp. (<i>Adam's needle or Soap Weed</i>)	3'-6' ht., 2'-3' spread, clumping.	Gray-green leaves tipped with spines, tall stalks of bell-shaped flowers, spines may be a safety hazard, full sun.

2D Lancaster County Street Sections







03R-98

Introduce: 4-14-03

RESOLUTION NO. A- 82058

WHEREAS, basic streetscape treatment of Lincoln rights-of-way include concrete sidewalks, wooden streetlight poles and lights selected by LES, turf "parking" areas, and street trees per city design standards, and landscape medians within arterial street right-of-ways planted with low maintenance, drought-tolerant turf accented with groupings of ornamental trees and/or ornamental grasses; and

WHEREAS, in certain, limited areas within the community enhanced streetscape may be appropriate within and along arterial streets and other high profile locations beyond the basic streetscape type as proposed and developed by staff in consultation with interested citizens and reviewed by Urban Design Committee; and

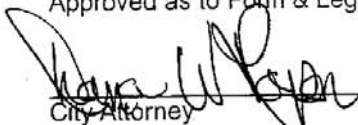
WHEREAS, the Department of Parks and Recreation has prepared a Process for Approving "Enhanced Landscaping" and/or "Enhanced Streetscaping" within and along Public Right-of-Way Areas, which is attached hereto, marked as Attachment "A"; and

WHEREAS, the City Council desires that a standard process for approving enhanced landscaping and/or enhanced streetscaping within and along public right-of-way areas be adopted.

BE IT RESOLVED by the City Council of the City of Lincoln, Nebraska:

That the Process for Approving "Enhanced Landscaping" and or "Enhanced Streetscaping" within and along Public Right-of-Way Areas which is attached hereto, marked as Attachment "A" and made a part hereof by reference, under which a process and criteria is set out for review and approval of enhanced landscaping and improvements in the public right-of-way, is hereby accepted and approved.

Approved as to Form & Legality:

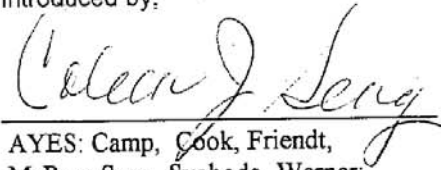

City Attorney

ADOPTED

APR 21 2003

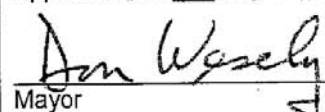
BY CITY COUNCIL

Introduced by:



AYES: Camp, Cook, Friendt,
McRoy, Seng, Svoboda, Werner;
NAYS: None.

Approved this 15 day of April, 2003:


Mayor

ATTACHMENT "A"

**Process for Approving "Enhanced Landscaping" and "Enhanced Streetscaping"
within and along Public Right-of-Way Areas**

Purpose and Intent

Basic streetscape treatment of Lincoln rights-of-way includes concrete sidewalks, wooden streetlight poles and lights selected by LES, turf "parking" areas, and street trees per city design standards. Landscape medians within arterial streets will generally be planted with low maintenance, drought-tolerant turf accented with groupings of ornamental trees and/or ornamental grasses ("basic landscape type").

In certain, limited areas within the community landscaping within and along arterial streets and other high-profile locations may be enhanced beyond the basic streetscape type, as proposed and developed by staff in consultation with interested citizens, and reviewed by Urban Design Committee. In each proposal to Urban Design Committee, staff will identify and describe the rationale for enhancing this specific location, and the Committee review and advice to City Council will include endorsement or discussion of this rationale, from an urban design perspective.

This "enhanced streetscape" may be appropriate

- within certain commercial districts,
- at entrances to and gateways within the community,
- in locations associated with the Capitol or other very prominent community assets,
- and other high profile transportation corridors.

The purpose of this resolution is to provide direction in identifying and selecting transportation corridors where "enhanced streetscapes" will be established and maintained.

Process

Prior to implementation of enhanced streetscapes within and/or along arterial streets or other prominent rights-of-way, the City Council shall approve a resolution authorizing such improvements. Department staff will provide information regarding the proposed landscape design, accompanied by a recommendation from the Urban Design Committee to the City Council for their consideration.

Review of enhanced streetscapes shall consider their value in enhancing the identity and character of the community, placement within the community as an entrance or gateway feature, and significance of the corridor or location within the overall urban fabric of the community. It is understood that enhanced landscape improvements will be reserved for special places and corridors within the community due to ongoing costs associated with maintenance.

The resolution authorizing enhanced streetscapes shall identify the source of funds for establishment of landscape plantings and other features, and for their ongoing maintenance. The resolution will direct funds for ongoing contractual maintenance of landscape plantings, replacement plants, water costs, and repair and maintenance of the irrigation system, and other improvements into an account created for this purpose and managed by the Finance Department. It is generally understood that enhanced landscaping benefits surrounding properties. Therefore, surrounding properties will typically participate financially in ongoing maintenance of enhanced streetscapes through an assessment process. The resolution will establish the method of participation by surrounding property owners, and cost shares between benefited properties and the City.

Design Principles

Enhanced streetscapes within public right-of-way areas should be guided by the following principles:

- 1) Low water consumptive plants should be selected. Use of native prairie plants and selected varieties of native plant species should be emphasized.
- 2) Plants should be selected for low maintenance requirements and durability over time to minimize the need for landscape maintenance activities within center medians of heavily trafficked arterial streets.
- 3) Planting design should take into consideration the need for snow storage on center medians during winter months.
- 4) It is understood that supplemental irrigation will be required during plant establishment and during periods of seasonally dry weather to keep the plants in healthy, viable condition. Durable, commercial-grade irrigation systems with automated controllers will be required. Irrigation heads should be set back from the perimeter of the planting where possible to minimize the potential of damage by vehicles travelling over the curb and returning to the travel lane.
- 5) Streetscape elements such as lights, special pavements, benches, and other "furniture" should be selected for durability, ease of maintenance and replacement, and design quality.

Median Maintenance Matrix 2008

LOCATION	APPROX. SQ. FT.	DESIGNED BY	INSTALLED BY	CONST. COST	MAINTAINED BY	EXPIRATION DATE	ANNUAL MAINT. COST	B or E*	IRRIG. (YES/NO)	BUDGETED BY	CONTRACT ADMINISTERED BY
S 40 th , Hwy 2 to Old Cheney Spec # 03-093	17,282	Kim Todd	Campbell's Nurseries	\$40,000	Earl May Spec # 07-061	November 2008	+/- \$3,688/yr	E	No	Street Operations	Parks Department
Cornhusker Hwy., W. Adams to 1 st St. Spec # 03-093	16,030	Kim Todd	Finke Gardens	\$53,500	Earl May Spec # 07-061	November 2008	+/- \$2,709/yr	E	No	Street Operations	Parks Department
S. 70 th , LaSalle to Old Cheney Rd. Spec # 04-070	22,800	Olsson Assoc.	Miner/ redone by Angel's Natives	\$59,000	Earl May Spec # 07-061	November 2008	+/- \$3,805.40/yr	E	No	Street Operations	Parks Department
S. 70 th Center Medians Old Cheney to Pine Lake Spec #01-152	28,649	Olsson Assoc.	Ray's Lawn & Home Care	\$48,423.36	Earl May Spec # 07-061	November 2008	+/- \$2370/yr	E	No	Street Operations	Parks Department
N 33rd St. & Fletcher Ave. Spec # 01-200	28,315	Olsson Assoc.	Nemaha Nursery	\$63,944	Earl May Spec # 07-061	November 2008	\$5,000/yr for 2 years	B	No	Street Operations	Parks Department
N 27 th , 'O' to Leighton Spec # 04-068	19,761	Erickson, Sullivan/Kim Todd	Ray's Lawn Care/redone by Angel's Natives	\$31,418	Campbells Spec #	March 2009	+/- \$3,358.10/yr	E	Yes (installed in April 2004)	Urban Development/BID	Parks Department
N 48 th Street University Place Spec #	N/A	Sinclair Hille	Nemaha Nursery	N/A	Urban Trail Gardens Spec #	March 2009	N/A	E	Yes (quick coplers)	Urban Development/BID	Parks Department
East 'O' Street, 48 th Street to Wedgewood Dr. Spec # 03-289	39,153	Schemmer Associates	Nemaha Nursery & Rain Pro Irrigation	N/A	Campbells Spec # 07-058	March 2009	N/A	E	Yes (installed in April 2004)	Street Operations	Parks Department
Vine Street N 27 th - N 20 th Street Spec #	N/A	Erickson Sullivan/Kim Todd	Jensen Gardens	TBD	Campbells Unit Price Spec.	December 2007	TBD	E	Yes (quick coplers)	Street Operations	Parks Department
12 th & Military Rd Spec #	N/A	Olsson Assoc.	Roberts Lawn Care	TBD	Campbells Unit Price Spec.	August 2007	TBD	E	Yes	Engr. Services/Street Operations	Parks Department
Big T Spec #	N/A	Olsson Assoc.	Roberts Lawn Care	TBD	Campbells Unit Price Spec.	July 2008	TBD	E	Yes	Engr. Services/Street Operations	Parks Department
S. 84th Street, South St. to South of Montello Spec # 03-271	32,845	Clark Emersen	Ray's Lawn Service	N/A	Campbells Unit Price Spec.	July 2008	N/A	B	No	Eng. Services/Street Operations	Parks Department
South St., 15 th to 18 th		Clark Emersen	Nebraska Nursery	N/A	Under Original Contract	Fall 2009	N/A	B	Yes	Urban Development/BID	Urban Development








September 2008

Median Maintenance Matrix 2008

LOCATION	APPROX. SQ. FT.	DESIGNED BY	INSTALLED BY	CONST. COST	MAINTAINED BY	EXPIRATION DATE	ANNUAL MAINT. COST	B or E*	IRRIG. (YES/NO)	BUDGETED BY	CONTRACT ADMINISTERED BY
W. Highlands Blvd., NW 1 st to NW 12 th Spec #03-093	53,795	Richard Sutton	Breaking Ground	\$32,000	Park Department		+/- \$2,428/yr	E	No	Street Operations	Parks Department
Capitol Pkwy., 27 th to Randolph		Parks Department	Parks Dept.	N/A	Parks Dept.	N/A	No added cost	B	No	Parks Dept.	Parks Department
S 15 th Street Mall A' to H'		Sinclair Hille	Judson Irrigation	\$59,533	Parks Department	N/A	N/A	E	Yes	Parks Department	Parks Department
Centennial Mall		Clark Emerser	Nebaska Nurseries	Unknown	Parks Department	N/A	N/A	E	Yes	Parks Department	Parks Department
33 rd & Sheridan Roundabout		HWS	Ray's	N/A	Parks Department	N/A	N/A	E	Yes	Street Operations (Irrigation/Water)	Parks Department
40 th & Sheridan Roundabout		Olsson's	Nemaha	N/A	Parks Department	N/A	N/A	E	Yes	Street Operations (Irrigation/Water)	Parks Department
F' St. @ 3 rd St. RR Underpass	11,120	Clark Emerser	Finke Gardens	\$39,000	Parks Department	7/2/2002	TBD	E	No	Parks Dept.	Parks Dept.
A', 19 th to 20 th (Breta Park)		Parks Department	Neighborhood Self-Help	Unknown	Near South Neighborhood Assoc./Parks Dept.	N/A	N/A	B	No	Parks Department	Parks Department
3 rd , A' to H'	23,135	Clark Emerser	Nemaha	\$83,788	Parks Department	N/A	TBD	E	No	Parks Dept.	Parks Dept.
Downtown Lincoln, 7 th to 17 th , R' to H'		Clark Emerser, Tom Laging of Sinclair/Hille	Piedmont Const., Lanoha, Campbell, Nemaha	\$15,000 per blk.	BID/P. W. Maint	N/A	\$130,720 \$664 Brlace	E	Yes (some)	DLA	DLA
S, 11 th & G'		Sinclair Hille	Campbell's Nurseries	\$4,903	none	7/ 2001		E		Urban Development	Urban Development
Country Club Area	644,688	Parks Department	Earl May/Lanoha	\$30,000	All Care	Oct-2004	\$10,920/yr.	E	No	Parks Department (Mowing Only)	Parks Department

* Basic Landscape (B) or Enhanced Landscape (E)

Median Maintenance Matrix 2008

	Project with Maintenance Contract administered by Parks & Recreation funded by Street Maint. Operations.
	Project out to bid for Maintenance Contract administered by Parks & Recreation, funded by Street Maint. Operations.
	Project maintained by Lincoln Parks & Recreation
	Project with no maintenance plan.
	Project with Mowing Contract administered by Parks & Recreation
	Project under the original Installation/Maintenance Contract funded by Engineering Services or Urban Dev.
	Future Project

**IT IS THE VENDOR'S RESPONSIBILITY TO
CHECK FOR ADDENDUM PRIOR TO SUBMITTING PROPOSALS**

**NOTICE TO BIDDERS
SPECIFICATION NO. 10-**

The City of Lincoln, Nebraska intends to purchase and invites you to submit a sealed bid for:

**REQUIREMENTS
FOR
LANDSCAPE MAINTENANCE SERVICES
SOUTH STREET
BEING 9th STREET TO 19th STREET**

Sealed bids will be received by the city of Lincoln, Nebraska on or before 12:00 noon Wednesday, , 2010, in the office of the Purchasing Agent, Suite 200, K Street Complex, 440 South 8th Street, Southwest Wing, Lincoln, Nebraska 68508. Bids will be publicly opened and read at the K Street Complex.

5D Requirements for Landscape Maintenance Services South Street being 9th Street to 19th Street

SPECIFICATION NO. 10-
BID OPENING TIME: 12:00 NOON
DATE:

The undersigned bidder, having full knowledge of the requirements of the City of Lincoln for the below listed items and the contract documents (which include Notice to Bidders, Instructions to Bidders, this Proposal, specifications, Contract, and any and all addenda) and all other conditions of the Proposal, agrees to sell to the City below the listed items for the performance of this Specification, complete in every respect, in strict accordance with the contract documents at and for unit prices listed below.

ADDENDA RECEIPT: The receipt of addenda to the specifications numbers _____ through _____ are hereby acknowledged. Failure of any bidder to receive any addendum or any interpretation of the specifications shall not relieve the bidder from obligations specified in the bid request. All addenda shall become part of the final contract document.

BIDDING SCHEDULE

REQUIREMENTS FOR LANDSCAPE MAINTENANCE SERVICES
(SOUTH STREET BEING 9th STREET TO 19th STREET)

WORK REQUIREMENTS	PRICE
Annual Spring Maintenance	Total Lump Sum Price \$ _____
Annual Fall Maintenance	Total Lump Sum Price \$ _____
Monthly Maintenance	Lump Sum Price Per Month (Excluding Annual Spring & Fall Maintenance) \$ _____/Month
Pesticide Application*	Hourly Price \$ _____/Hour
Irrigation Spring Start Up	Total Lump Sum Price \$ _____
Irrigation Annual Winterization	Total Lump Sum Price \$ _____
Irrigation Monthly Maintenance	Lump Sum Price Per Month (Excluding Annual Spring Start Up and Winterization) \$ _____/Month
Service Call**	Hourly Price \$ _____/Hour

***NOTE:** Any pesticide application treatment for an insect/disease infestation identified by the Contractor must be approved by the City before being done by the Contractor. The Contractor must also provide to the City the amount of time it will take to do the pesticide application treatment that is being recommended by the Contractor and this will be the basis for the actual amount that the Contractor can invoice the City if given approval to do the treatment.

**** NOTE:** Any service call for a site visit, inspection or repair outside the specifications outlined herein must be approved by the City before being prior to being performed by the Contractor. The Contractor must also provide to the City the amount of time it will take to do the site visit, inspection or repair that is being recommended by the Contractor and this will be the basis for the actual amount that the Contractor can invoice the City if given approval to perform such task.

5D Requirements for Landscape Maintenance Services South Street being 9th Street to 19th Street

YES _____ NO _____

TERM PRICE CLAUSE: **BIDDER MUST STATE**

- A. Bid prices firm for the full contract period: _____; or
- B. Bid prices subject to escalation/de-escalation: _____.
- C. If (b), state period for which bid prices will remain firm through _____.

AFFIRMATIVE ACTION PROGRAM: Successful bidders will be required to comply with the provisions of the City's Affirmative Action Policy (Contract Compliance, Sec. 1.16). The Equal Opportunity Officer will determine compliance or non-compliance, upon a complete and substantial review of successful bidder's equal opportunity policies, procedures, and practices.

The undersigned signatory for the bidder represents and warrants that he has full and complete authority to submit this proposal to the City, and to enter into a contract if this proposal is accepted.

**RETURN TWO (2) COMPLETE COPIES OF PROPOSAL AND SUPPORT MATERIAL.
MARK OUTSIDE OF BID ENVELOPE AS FOLLOWS: SEALED BID FOR SPEC.**

COMPANY NAME

SIGNATURE

STREET ADDRESS OR P.O. BOX

PRINT NAME

CITY, STATE ZIP CODE

TITLE

TELEPHONE

DATE

EMPLOYER'S FEDERAL I.D. NO. OR
SOCIAL SECURITY NUMBER

TERMS OF PAYMENT

BIDS MAY BE INSPECTED IN THE PURCHASING DIVISION OFFICES DURING NORMAL BUSINESS HOURS, AFTER TABULATIONS BY THE PURCHASING AGENT. IF YOU DESIRE A COPY OF THE BID TABULATION TO BE MAILED TO YOU, A SELF-ADDRESSED STAMPED ENVELOPE MUST BE ENCLOSED WITH YOUR BIDDING DOCUMENTS.

**SPECIFICATIONS
FOR
LANDSCAPE MAINTENANCE SERVICES**

1. SCOPE

- 1.1 These services shall be performed for the City of Lincoln's Urban Development and the Parks and Recreation Department on a regularly scheduled basis, except where noted.
- 1.2 Contractor shall provide all labor, tools, and materials necessary to perform specified landscape maintenance services at designated location(s) for the term of the service agreement.
- 1.3 Contractor shall provide all labor, tools, and materials necessary to perform specified irrigation repairs and maintenance services at designated location(s) for the term of the service agreement.
- 1.4 Landscape maintenance to include all litter and refuse removal from sidewalks, planting areas, and beautification areas within the public right-of-way (back of sidewalk to back of sidewalk) on South Street from 9th Street to 19th Street. **NOTE Does not include the maintenance of the turf areas.**
- 1.5 Care and maintenance, including replacement, of all landscaping, including watering, fertilizing, weeding, pruning, spraying, and removal and replacement of dead plantings.
- 1.6 Irrigation maintenance services are for the center island medians and adjacent planting beds located on South Street from 9th Street to 19th Street).
- 1.7 The attached sample service agreement shall be executed with each Contractor selected for award of bid. Work shall be performed in accordance with the Specifications for Landscape Maintenance Services and Irrigation Maintenance Services and requirements stated in the service agreement.
- 1.8 The term of the initial service agreement is from May 1, 2010, with an option to renew on an annual basis for one (1) additional one-year term, beginning April 1, 2011.
- 1.9 The City or Contractor may terminate the service agreement at any time providing a thirty (30) day written notice is submitted.
- 1.10 For additional information regarding these specifications, please contact Dave Bomberger, City of Lincoln Parks and Recreation Department, at 440-5560.

2. CONTRACT AND INSURANCE

- 2.1 Within fourteen (14) calendar days after the award of bid, the Contractor shall execute a written service agreement between the Contractor and the City.
- 2.2 Also, within such time period the Contractor shall furnish with the executed service agreement a Certificate of Insurance in accordance with the requirements specified in the attached insurance clause to be used for all City Contracts.
 - 2.2.1 All certificates of insurance shall be filed with the City on the standard Accord Certificate of Insurance form showing specific limits of insurance coverage required and showing the City of Lincoln as an "Additional Insured" as pertains to these services.
 - 2.2.2 Such certificates of insurance shall specifically state that insurance policies are to be endorsed to require the insurer to provide the City thirty (30) days written notice of cancellation or non-renewal, or of any material reduction of insurance coverage.

3. BIDDING PROCEDURE AND AWARD OF CONTRACT

- 3.1 Read attached Instructions to Bidders prior to submitting bid proposal.
- 3.2 Bidders are encouraged to inspect designated location(s) where required landscape maintenance services are to be performed and review plant material/maintenance list in **APPENDIX 2** for such designated location(s) prior to submitting bids.
- 3.3 The following documents must be submitted as part of the bid:
 - 3.3.1 Completed and signed Bid Proposal Form.
 - 3.3.2 Qualifications statement.
 - 3.3.3 Reference list indicating past and current commercial landscape maintenance clients within the last 5 years, applicable service dates, maintenance performed, contact person, company name and telephone number.
 - 3.3.4 Listing of all equipment to be used in performing specified landscape maintenance services.
 - 3.3.5 Listing of all personnel who would be involved in performing specified landscape maintenance services and their related commercial property landscape maintenance

5D Requirements for Landscape Maintenance Services South Street being 9th Street to 19th Street

- experience.
- 3.4 In determining the low responsible bid, consideration may be given to the following factors:
 - 3.4.1 Ability, capacity, and skill of the bidder to comply with the specifications and perform the work required by the service agreement.
 - 3.4.2 Character, integrity, reputation, judgement, work related experience and efficiency of the bidder.
 - 3.4.3 Ability of the bidder to perform the work within the time specified for specified services.
 - 3.4.4 Previous and current compliance of the bidder with laws and regulations relating to the required work to be done.
 - 3.4.5 Quality of the bidder's performance of previous work.
 - 3.4.6 Total annual cost of the Bid Proposal submitted.
 - 3.4.7 Work performance and impact on City personnel and equipment expenses while assisting contractor.
 - 3.4.8 Any other information deemed relevant to the service agreement as determined by the City.
- 3.5 Contracts resulting from bid proposals may be awarded based on price, scheduling, the ability to complete work correctly on time, quality of work, compliance with stated traffic safety standards and pesticide application procedures, and previous inspection and acceptance of past work performed under contract for the City.
- 3.6 The City further reserves the right to analyze bid proposals in detail and to award contracts which the City believes to be in their best interests.
- 3.7 The City may make any investigation deemed necessary to determine the ability of a bidder to perform in accordance with the Specifications for Landscape Maintenance Services and the requirements of the service agreement.
- 3.8 The City reserves the right to reject any bid based on facts resulting from any investigation which indicates that a bidder is not properly qualified to perform the obligations of any resulting service agreement.

4. **BIDDER QUALIFICATIONS**

- 4.1 Bidder must be an experienced landscape contractor who has performed landscape maintenance services similar in material, design and extent to that required for contracted area.
- 4.2 Bidder must be able to correctly identify common annual and perennial herbaceous weeds, grasses and woody plant materials that may require landscape maintenance under this service agreement.
- 4.3 Bidder must have a valid and current Nebraska Certified Pesticide Applicator License for the Ornamental and Turf Pest Control Category and submit proof thereof with Bid Proposal.
 - 4.3.1 Bidder must provide copies of applicators license of those employees applying pesticides on the project.
- 4.4 Bidder must have a valid and current Nebraska Nursery Grower, Dealer or Broker License from the Nebraska Department of Agriculture.
- 4.5 Bidder must currently own necessary and proper tools and equipment needed to perform required landscape maintenance services.
 - 4.5.1 Bids will **not** be awarded to bidders who would purchase such necessary tools and equipment contingent upon their being awarded the bid.
- 4.6 Irrigation maintenance and repairs must be completed by an experienced irrigation contractor who has performed irrigation repairs and maintenance services similar in material, design and extent to that required for the contracted area. Services may be subcontracted but the primary Contractor shall be responsible.

5. **RESPONSIBILITIES OF THE CONTRACTOR**

- 5.1 Provide all equipment, labor, materials, fuel, lubricants, repair, maintenance, etc. to perform required landscape maintenance services to the satisfaction of the City.
- 5.2 All necessary traffic barricading and signing to perform contracted landscape maintenance services in the City right-of-way of streets shall be done in conformance with the "Manual on Uniform Traffic Control Devices" and the City of Lincoln "Traffic Control Guidelines for Street Construction, Maintenance and Utility Construction".
- 5.3 Provide landscape maintenance services and submit required inspection reports (see **APPENDIX 3**) in a timely and efficient manner as stipulated in the service agreement.
- 5.4 Protect all existing plant materials listed in **APPENDIX 2** that are at the designated location(s) and replace any or all damaged landscape at no cost to City resulting from landscape maintenance work done by contractor.

5D Requirements for Landscape Maintenance Services South Street being 9th Street to 19th Street

- 5.5 Protect all existing water boxes/hookups at designated location(s) and repair or replace any or all that are damaged during landscape maintenance work at no cost to the City.
- 5.6 Provide (2) aluminum signs with information including the contractor name and phone number.
 - 5.6.1 Sign shall be new, dice cut (or equal), aluminum meeting A.S. T.M. Specification B209, Alloy 5052-H38 of 080 gauge.
 - 5.6.2 Size and shape must be exactly the same size and shape with all angles and corner radius uniform and exactly as specified.
 - 5.6.3 The edges of all signs must be smooth and free of sharp edges, rough edges or burrs which would harm the hands of a person handling the signs.
 - 5.6.4 All signs must conform to the MUTCD FHWA Standard Highways Sign Manual, 2002 Edition, standards in shape, size, corner, radius, hole location and have 3/8" holes.
 - 5.6.5 Signs designated as City Specification shall conform to the following details in shape, size, corner radius, hole location, color, and font.
 - 5.6.5.1 Rectangular, 080 gauge, 6" high x 12" long, green background with white Arial font.
 - 5.6.6 Sign information to include the contractor name and phone number (No logos allowed).
 - 5.6.7 Location to be identified by the Parks Department in conjunction with Public Works.
 - 5.6.8 Contractor responsible for sign installation and replacement if removed under any circumstance.
- 5.7 Any application of pre-emergent/post-emergent herbicides and/or pesticides must be approved by the City of Lincoln Parks Department, Dave Bomberger at 440-5560, prior to being done.
 - 5.7.1 Contractor must provide name, target for application and MSDS information of chemical(s) to be applied.
 - 5.7.2 Such information must be faxed to City of Lincoln Parks Department, attention Dave Bomberger at 440-5560 or delivered to the Administrative Office at 2740 'A' Street **before approval by the City can be given to apply such chemical(s).**
- 5.8 Submit to the City of Lincoln Parks and Recreation Department, Dave Bomberger, any itemized invoices for landscape maintenance or irrigation maintenance services performed.
- 5.9 Initiating, maintaining, supervising, observing and complying with all safety precautions and programs in connection with the work done in accordance with all applicable federal, state and local laws, regulations and ordinances.

6. **RESPONSIBILITIES OF THE CITY**

- 6.1 Contract administration shall be done by Dave Bombeger, with the City of Lincoln Parks and Recreation Department at 440-5560.
- 6.2 Payment of invoices for landscape maintenance services performed by Contractor shall be made by the City of Lincoln Urban Development Department and/or the Business Improvement District.
- 6.3 Any existing water boxes/hookups located on-site at designated landscape maintenance locations shall be clearly marked and are available upon request.

7. **BASIS OF PAYMENT**

- 7.1 Payment shall be based on the lump sum prices and hourly rates indicated on the Bid Proposal Form for work actually done.
- 7.2 All invoices and landscape maintenance services performed pursuant to the service agreement shall be submitted to Dave Bomberger of the Lincoln Parks and Recreation Department.
- 7.3 The contractor shall submit invoices for payment of services performed as follows:
 - 7.3.1 One (1) invoice submitted for entire Spring Cleanup when all stipulated work has been done to the satisfaction of the City; this includes Irrigation Charge Up
 - 7.3.2 One (1) invoice submitted quarterly for Monthly Maintenance done to the satisfaction of the City; schedule to follow (does not include Spring Cleanup and Fall Cleanup):
 - Period 1: Work performed during April, May, June, to be billed after June 30, 2010.
 - Period 2: Work performed during July, August, September to be billed after September 30, 2010.
 - Period 3: Work performed during October, November, December, to be billed after December 31, 2010.
 - Period 4: Work performed during January, February, March, to be billed after March 31, 2010.
 - 7.3.4 One (1) invoice submitted for any additional plant material installed in the Spring, that may be requested by the City of Lincoln Parks and Recreation Department.
 - 7.3.5 One (1) invoice submitted for entire Fall Cleanup when all stipulated work has been done to the satisfaction of the City; including Winterization of Irrigation system.

5D Requirements for Landscape Maintenance Services South Street being 9th Street to 19th Street

- 7.5 The Contractor's invoices shall include company name, address and telephone number, the job site location, date(s) and description of all work done and list of charges as established for such work in the Contractor's Bid Price Proposal (see **APPENDIX 1**)
- 7.6 All costs associated with labor, materials, equipment strip and preparation, equipment operation, equipment maintenance and repair costs shall be included in the lump sum bid price and hourly rates submitted on the Bid Proposal Form.
- 7.7 Landscape Maintenance Inspection Reports, (see **APPENDIX 3**) must be completed and submitted as required in service agreement in order for payment of invoices to be made by the City to the Contractor for services performed.

5D Requirements for Landscape Maintenance Services South Street being 9th Street to 19th Street

LANDSCAPE MAINTENANCE SERVICES AGREEMENT FOR SOUTH STREET - 9TH STREET TO 19TH STREET

THIS AGREEMENT, made this _____ day of _____, 2010 by and between _____, hereinafter referred to as Contractor and the City of Lincoln, Nebraska, a body corporate and politic, hereinafter referred to as City.

WHEREAS, the City wishes to engage a Contractor in accordance with terms and conditions herein to provide landscape maintenance services for the City at the designated location(s);

NOW, THEREFORE, WITNESSETH, that the parties hereto mutually agree as follows:

1. **TERM**

The Contractor hereby agrees to perform center medians landscape maintenance services as hereinafter set forth during the term of the Agreement beginning with date of executed agreement, through June 15, 2011, with option to renew for one (1) additional one-year term upon providing thirty (30) days written notice to Contractor prior to expiration of the Agreement.

2. **RATES**

- 2.1 The Contractor agrees to provide services in accordance with this Agreement at the lump sum prices and hourly rates set forth in the Contractor's Bid Proposal, attached hereto and incorporated herein.
- 2.2 The Contractor further agrees that the lump sum prices and hourly rates set forth in their submitted Bid Proposal shall remain in effect during the term of this Agreement.

3. **MAINTENANCE REQUIREMENTS**

- 3.1 Landscaped center median areas from curb to curb, including planted areas and mowing strip adjacent to planted areas, and beautification areas within the public right-of-way will receive scheduled maintenance and inspections by the Contractor as stipulated in this Agreement and in **APPENDIX 2, APPENDIX 3**, attached here to and incorporated herein (Landscape Plans available at Parks and Recreation, 441-8248).
- 3.2 **ANNUAL SPRING MAINTENANCE** (completed during March - April of the year)
 - 3.2.1 Cut and remove dead vegetation from perennials and prune shrubs and trees as needed according to maintenance instructions in **APPENDIX 2**.
 - 3.2.2 Rake out and remove dead leaves and litter from designated landscaped areas.
 - 3.2.3 Re-establish edge of landscaped areas (i.e. plant materials that are growing over mowstrips need to be pruned back to the **inside back edge** of mowstrips).
 - 3.2.4 Re-establish wood chip mulch edge of landscaped areas next to back of mowstrips (i.e. any spillage of wood chips onto top of curbs needs to be removed and a "V" groove edge established by machine next to back of mowstrips to allow wood chip mulch to settle into groove to a height no greater than top of mowstrips).
 - 3.2.5 Apply pre-emergence herbicide if applicable, for weed control which is approved for use in landscaped areas having established perennials, shrubs and trees (i.e. Preen or others).
 - 3.2.6 Apply wood chip mulch to landscaped areas, three inches (3") thick minimum.
 - 3.2.7 Apply post-emergence herbicides if applicable and necessary and don't allow them to come in contact with existing landscape plant materials listed in **APPENDIX 2**.
 - 3.2.8 Removal of all debris from designated landscape maintenance areas.
 - 3.2.9 Control weedy grasses and weedy broad leaves in all pavement areas adjacent to planted areas, back of sidewalk to back of sidewalk.
- 3.3 **MONTHLY MAINTENANCE**
 - 3.3.1 Removal of plant material **not** included in **APPENDIX 2** from planted areas and paved areas adjacent to planted areas of the median(s), from back of sidewalk to back of sidewalk.
 - 3.3.2 Removal of volunteer trees; removal and/or treatment of weedy grasses and weedy broad leaves from the planted areas and paved areas adjacent to planted areas of the median(s), back of sidewalk to back of sidewalk.
 - 3.3.3 Removal of litter and debris from the planted and paved areas from back of sidewalk to back of sidewalk on a weekly basis.
 - 3.3.4 All weedy grasses and weedy broad leaves chemically treated must be removed within two (2) weeks of application.

5D Requirements for Landscape Maintenance Services South Street being 9th Street to 19th Street

- 3.3.5 Emptying of trash receptacles (1) located on the east side of South Street at 14th Street in the pedestrian plaza. Trash bags and removals shall be provided as part of the contract. **NOTE: Trash removal shall occur on a weekly basis as this receptacle location.**
- 3.4 **ANNUAL FALL MAINTENANCE** (completed during October 1st - November 1st of the year)
- 3.4.1 Cut and remove dead vegetation from perennials and prune shrubs and trees as needed according to maintenance instructions in **APPENDIX 2**.
- 3.4.2 Rake out and remove dead leaves and litter from designated landscaped areas.
- 3.4.3 Re-establish edge of landscaped areas (i.e. plant materials that are growing over mowstrips need to be pruned back to the **inside back edge** of mowstrips).
- 3.4.4 Re-establish wood chip mulch edge of landscaped areas next to back of mowstrips (i.e. any spillage of wood chips onto top of mowstrips needs to be removed and a "V" grove edge established by machine next to back of mowstrips to allow wood chip mulch to settle into grove to a height no greater than top of mowstrips).
- 3.4.5 Apply pre-emergence herbicide if applicable, for weed control which is approved for use in landscaped areas having established perennials, shrubs and trees (i.e. Preen or others).
- 3.4.6 Apply wood chip mulch to landscaped areas, two inches (2") thick minimum.
- 3.4.7 Apply post-emergence herbicides if applicable and necessary and don't allow them to come in contact with existing landscape plant materials listed in **APPENDIX 2**.
- 3.4.8 Removal of all debris from designated landscape maintenance areas.
- 3.4.9 Control weedy grasses and weedy broad leaves in all pavement areas adjacent to planted areas, back of sidewalk to back of sidewalk.
- 3.5 **IRRIGATION SYSTEM ANNUAL SPRING START UP** (Performed by the 4th week fo April)
- 3.5.1 Activate irrigation system.
- 3.5.2 Flush out the entire system to clear of debris.
- 3.5.3 Operate and observe the entire system and check for clogged nozzles and emitters. Remove any calcium buildup that may have occurred over the previous season.
- 3.5.4 Identify broken or damaged nozzles, heads and emitters, if any.
- 3.5.5 Inspect for leaking valves and identify those which need repair.
- 3.5.6 Check the controller for each station in the system(s). Replace batteries annually.
- 3.5.7 Update wireless valve programmer. Replace batteries annually.
- 3.5.8 Inventory broken and damaged systems, if any. Provide itemized list and cost estimate for repairs. Submit to Dave Bomberger at the Parks Office 440-5560.
- 3.5.9 Program sprinkler system operating schedule. Hours of operation to occur between 2:00 a.m and 5:00 a.m.
- NOTE: Irrigation system under warranty of the original contract for the first season of this contract. Contractor shall be responsible for all maintenance of the system including winterization at the end of the growing season in 2010.**
- 3.6 **IRRIGATION SYSTEM WINTERIZATION** (Performed by the last week of October or before freezing temperatures.)
- 3.6.1 Turn off water supply to the irrigation system, this includes turning off the main shut off valve(s).
- 3.6.2 Automatic systems need to have the controller (timer) shut down.
- 3.6.3 Backflow preventers need to be removed where applicable.
- 3.6.4 All water needs to be removed from the pipes and sprinklers.
- 3.6.5 Blow-out the irrigation system. Allow air to run until all the water is blown out and only air is exiting through the sprinkler heads and turn off the valve. Continue process onto the next valve until all valve circuits have been blown out. **NOTE: Never turn off all of the valves while the air compressor is running.**
- 3.6.6 Once all valves have been blown out, repeat the process beginning with the first valve.
- 3.6.7 Turn the automatic controller onto "rain mode" or turn o ff when blowing out the system has finished. Install threaded caps over the open ends of the Backflow preventer rises, anit-siphon valve risers, and any blow out fittings until spring.
- 3.7 **IRRIGATION SYSTEM MONTHLY MAINTENANCE**
- 3.7.1 Contractor shall consistently maintain all components of the irrigation system in proper working order, as per manufacturer's specifications, by inspecting the entire system on an ongoing basis.

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- 3.7.2 Spray heads, drip lines and quick couplers shall be checked on an ongoing basis such that the entire system is checked each month. Malfunctioning systems will be corrected immediately. Methods of detection include: visual sightings of water on hardscape and property, soil probing, meter monitoring and specific line observations.
- 3.7.3 Weekly or bimonthly reprogramming of the irrigation controller may occur at the request of the City. All run times should take into account valve precipitation rates, soil conditions, microclimate conditions, and consideration of slope. Before scheduling run times the site should be walked and planted areas inspected to observe plant stress and health. Soil moisture levels should be inspected through planted areas, and appropriate adjustments made to the irrigation schedule.
- 3.7.4 Irrigation scheduling will be performed to encourage deep roots, including deep watering through use of multiple repeat cycles. Soil probing shall be used to determine soil moisture depth, overall moisture levels and the need to adjust irrigation schedules. Soils will be allowed to dry to a 50% moisture depletion level between irrigation in order to avoid root-rot and allow adequate air to be present in the soil.
- 3.7.5 Monthly activation of all irrigation valves. Each valve should be operated individual to inspect for and correct the following conditions: misaligned irrigation heads, clogged or obstructed heads, missing or vandalized heads, low-head drainage conditions, overspray onto hardscaped areas, poor coverage or uniformity, stuck valves, and broken risers, laterals or mains. Contractor shall list and report all irrigation system damages to the City of Lincoln Parks Department, Dave Bomberger at 440-5560 with a cost estimate of repair/replacement.
- 3.7.6 Irrigation system pressure shall be checked and adjusted at least monthly to insure efficient operation of irrigation system.
- 3.7.7 Irrigation scheduling will be coordinated with all other maintenance activities.

3.8 LANDSCAPE MAINTENANCE INSPECTION REPORT

- 3.8.1 Walk through inspections of the landscape maintenance areas will be required of the Contractor on the first and third Tuesday of each month upon request of the City's Representative.
- 3.8.2 Contractor shall complete and submit Landscape Maintenance Inspection Report (see **APPENDIX 3**) within two (2) days from date of inspection to:
City of Lincoln Parks and Recreation Dept
Planning Department Attn: Dave Bomberger
2740 'A' Street
Lincoln, NE 68502
- 3.5.3 Such reports may also be faxed to 441-3861.

3.9 PESTICIDE APPLICATION

- 3.9.1 Pesticide applications will only be done by Contractor if alternative treatment methods are not effective or if tolerable insect/disease thresholds have been exceeded and chemical treatment is necessary to prevent permanent damage or death of plant materials.
- 3.9.2 Any proposed pesticide application(s) must be approved by the City before being done by the Contractor.

4. ADDITIONAL SERVICES

- 4.1 The addition and/or replacement of plant materials (i.e. trees, shrubs, perennials and turf) may be requested of the contractor by the City of Lincoln Parks Department. Any cost associated with the installation of additional plant material, including labor and establishment period maintenance shall be submitted to the City of Lincoln Parks Department, Mark Canney 441-8248 prior to installation.
- 4.2. Any plant material replaced shall include a one year warranty. This includes trees, shrubs and perennials.
- 4.3 Additional plant material installed by the contractor shall comply with the City of Lincoln installation standards and requirements and **SPECIAL PROVISIONS**.
- 4.4 Payment for additional services shall be consistent with the procedure(s) outlined in item 7 (**BASIS OF PAYMENT**).

5. TERMINATION

- 5.1 The City reserves the right to terminate this agreement for cause at any time during the term of the Agreement upon default of the Contractor in providing landscape maintenance services in

5D Requirements for Landscape Maintenance Services South Street being 9th Street to 19th Street

- accordance with the terms and conditions contained herein.
- 5.2 The City shall provide ten (10) days written notice to Contractor to correct any deficiencies prior to the termination of Agreement.
- 5.3 The City reserves the right to terminate this agreement in the event that the City does not appropriate sufficient funds for the continuation of the agreement into the succeeding fiscal year.

6. **INSURANCE**

The Contractor shall provide insurance in accordance with the City of Lincoln's standard insurance clause to be used for all City contracts/agreements which is hereby made a part of this agreement.

7. **INDEMNIFICATION**

- 7.1 The Contractor agrees to indemnify and hold harmless and defend the City and any of their officers, agents, servants and employees from any and all claims resulting from injuries, including death, bodily injury, property damage, or any other losses arising out of or in connection with or in any way associated with the performance of the terms and conditions of this agreement.
- 7.2 The Contractor shall not be required to indemnify the City for any damage resulting from the sole negligence of the City or its employees.

8. **NON-DISCRIMINATION**

- 8.1 The parties agree that in connection with the carrying out of this agreement the Contractor shall not discriminate against any employee or applicant for employment because of race, color, religion, sex, national origin, ancestry, disability, age, or marital status.
- 8.2 The Contractor will take affirmative action to ensure that applicants are employed and that employees are treated during employment without regard to their race, color, religion, sex, national origin, ancestry, disability, age, or marital status. Such actions shall include, but not be limited to, the following: employment upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other compensation; and selection for training, including apprenticeship.
- 8.3 Any breach of this provision of the Agreement shall be regarded as a material breach.

9. **DRUG FREE WORKPLACE**

- 9.1 The Contractor agrees that in the performance of this Agreement, neither the Contractor nor any employee of the Contractor shall engage in the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance in conducting any activity covered by this Agreement.
- 9.2 The City reserves the right to request a copy of the Contractor's drug free workplace policy.

10. **INDEPENDENT CONTRACTOR**

The parties understand that this contractual agreement shall not create an employer/employee relationship and the Contractor, his employees, and any person acting on behalf of the Contractor shall be deemed to be an independent contractor during the term of this Contract.

11. **INVOICES**

- 11.1 All invoices for landscape maintenance services performed pursuant to this Agreement shall be submitted to the City of Lincoln Parks & Recreation Department, Planning Department, Attn: Dave Bomberger.
- 11.2 Invoices shall be submitted according to the guidelines outlined in the **SPECIFICATIONS FOR LANDSCAPE MAINTENANCE SERVICES** item No. 7. **BASIS FOR PAYMENT**
- 11.3 The Contractor's invoices shall include the job site location, date of work done, and a fully itemized list of landscape maintenance services performed.

12. **ASSIGNMENT**

This Agreement shall not be assigned by Contractor to any other party without first obtaining the written consent of the City.

13. **GOVERNING LAW**

This Agreement shall be governed by and interpreted in accordance with the laws of the State of Nebraska.

Dated this _____ day of _____, 2010.

City of Lincoln, Nebraska

5D Requirements for Landscape Maintenance Services South Street being 9th Street to 19th Street

Attest

City Clerk

Mayor

Contractor

Company Name

By:

Street Address

Name (Print)

City State Zip Code

Signature

Telephone Number(s)

Title

5D Requirements for Landscape Maintenance Services South Street being 9th Street to 19th Street

APPENDIX 1: CONTRACTOR INVOICE

Contractor Name
Contractor Address
Contractor Phone Number

Date of Invoice

Job Site Location

Invoice Number	Billing Period/Quarter

Date of work performed	Itemized description of the work performed	List of charges as established by contract
		Total Amount due

APPENDIX 2
SOUTH STREET - 9th STREET TO 19th STREET
PLANT LIST

PLANT LIST	MAINTENANCE CONSIDERATIONS
Ivory Silk Japanese Tree Lilac (<i>Syringa reticulata</i> 'Ivory Silk')	Prune broken, twisted, multidirectional branches and suckers.
Corinthian Linden (<i>Tilia cordata</i> 'Corzam')	Prune broken, twisted, multidirectional branches and suckers.
Gro-low Fragrant Sumac (<i>Rhus aromatica</i> 'Gro-low')	Prune broken, twisted, damaged multidirectional or dead branches.
Purple Pavement Shrubrose (<i>Rosa</i> 'Pink Knockout Rose')	Prune to 12" in the spring; maintain to 30"
Dwarf Fountaingrass (<i>Pennisetum alopecuroides</i> 'Hamelin')	Cut back in Spring to 6".
Happy Returns Dwarf Daylily (<i>Symphoricarpos</i> x 'Hancocki')	Cut back in Spring and remove dead foliage.
Walker's Low Catmint (<i>Nepeta</i> x <i>faassenii</i> 'Walker's Low')	Cut back in Spring and remove dead foliage.
Little Spire Russian Sage (<i>Perovskia atriplicifolia</i> 'Little Spire')	Cut back to the ground in Spring.

NOTE: Any shrub that exceeds 30" must be pruned back regardless of time of year. This does not include ornamental grasses or trees.

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APPENDIX 3

SOUTH STREET LANDSCAPE MAINTENANCE INSPECTION REPORT

DATE:

PREPARER’S NAME (PRINT):

COMPANY NAME:

SIGNATURE:

LOCATION OF INSPECTION:

TELEPHONE:

Note: Please circle best response to questions.

1. Current growing condition of plant materials?

Dormant

Bud Stage

Active Growth

2. Current health condition of plant materials

Ivory Silk Japanese Tree Lilac (<i>Syringa reticulata</i> ‘Ivory Silk’)	POOR	FAIR	GOOD	EXCELLENT
Corinthian Linden (<i>Tilia cordata</i> ‘Corzam’)	POOR	FAIR	GOOD	EXCELLENT
Gro-low Fragrant Sumac (<i>Rhus aromatica</i> ‘Gro-low’)	POOR	FAIR	GOOD	EXCELLENT
Pink Knockout Rose (<i>Rosa</i> x ‘Radcon’)	POOR	FAIR	GOOD	EXCELLENT
Dwarf Fountaingrass (<i>Pennisetum alopecuroides</i> ‘Hamelin’)	POOR	FAIR	GOOD	EXCELLENT
Happy Returns Dwarf Daylily (<i>Heemerocallis</i> x ‘Happy Returns’)	POOR	FAIR	GOOD	EXCELLENT
Walker’s Low Catmint (<i>Nepeta</i> x <i>faassenii</i> ‘Walker’s Low’)	POOR	FAIR	GOOD	EXCELLENT
Little Spire Russian Sage (<i>Perovska atriplicifolia</i> ‘Little Spire’)	POOR	FAIR	GOOD	EXCELLENT

3. Current soil moisture?

SATURATED

MOIST

DRY

DROUGHT

4. Landscape maintenance work needing to be done:

Removal of volunteer trees, weedy grasses and/or weedy broad leaves?

YES

NO

Application of pre-emergent herbicide for weed control

YES

NO

Name of chemical(s) applied: _____

Application of post emergent herbicide for weed control?

YES

NO

5D Requirements for Landscape Maintenance Services South Street being 9th Street to 19th Street

5. Describe in detail any landscape maintenance work done since last inspection (Use back of this sheet).

6. Insect, disease and/or animal damage observed? YES NO

PLANT NAME	INSECT	DISEASE	ANIMAL
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—

Contractor to do inspections on the 1st and 3rd Tuesday of each month while under contract with the City unless otherwise scheduled by City. Completed inspection reports must be received by the City of Lincoln Parks Department by fax (441-8706) or mailed (City of Lincoln Parks Department, 2740 "A" Street, Lincoln, NE 68502) within two (2) days from the date of the inspection .

Chapter 2.35

DESIGN STANDARDS FOR STREET TREES

The Department of Parks and Recreation is assigned responsibility for administration of these design standards.

Section 1. GENERAL REQUIREMENTS

The selection, planting, maintenance and removal of trees, shrubs and hedges along the public ways within the City of Lincoln substantially affect such matters as pedestrians and vehicle safety, the location and maintenance of utility services, tree maintenance costs, the incidence of tree diseases, and the general appearance of the cityscape; therefore, it is hereby found and determined that such selection, planting, maintenance and removal are matters of city-wide concern over which the city must exercise the control set forth in the following standards and specifications.

1. Street trees planted on City right-of-way (i. e. between the curb and sidewalk, behind the sidewalk, behind the curb with no sidewalk) shall generally be located as follows to avoid conflicts with traffic control signs, sight triangles, above- and below-ground utilities, and existing trees:
 - a. Street trees on corner lots shall be located 25 feet from the property corner adjacent to the street intersection.
 - b. Twenty-five (25) feet from stop signs.
 - c. Fifteen (15) feet from street light poles.
 - d. Ten (10) feet from fire hydrants.
 - e. Five (5) feet from driveways.
 - f. Five (5) feet from storm sewer inlets
 - g. Five (5) feet from manholes
 - h. Four (4) feet from water shut-off boxes
 - i. Three (3) feet from gas shut-off valves
 - j. Five (5) feet from underground utility service lines going from utility mains to homes/buildings. The location of the service lines shall be considered, for distance purposes, to be the surface of the ground above the service line.
 - k. Five (5) feet from traffic control signs
 - l. Four (4) feet from sidewalks where parking areas are greater than eight (8) feet wide.

If the street tree cannot be planted in compliance with the above requirements, an alternate location for the street tree may be approved by the Parks and Recreation Department.

Spacing between street trees to be determined by the Parks and Recreation Department.

6D City of Lincoln Design Standards for Street Trees

2. Planting locations will be marked by the City. Installation of street trees shall be coordinated with the City Arborist prior to any street tree being planted.
3. The subdivider shall contact the Parks and Recreation Department Forestry Division for the species of street trees for each street.
4. All street trees, when planted, shall not be less than one inch in caliper.
5. There shall be at least one (1) street tree per lot unless the lot is less than 50 feet in width in which case the trees would be spaced for major streets according to Traffic Sight Distance Standards and Street Design Speed as follows:

Major Street Design Speed	Tree Spacing Feet
25 mph	35-40
30 mph	40-45
35 mph	45-50
40 mph	55-60
45 mph	60-70
50 mph	70-75
55 mph	80+

For non-major streets, the trees would be spaced as follows:

- a. Small Trees: Thirty (30) to thirty-five (35) feet from the nearest existing trees, public or private and spaced forty (40) feet from each other, unless otherwise approved by the City Arborist.
- b. Medium Trees: Forty (40) to forty-five (45) feet from the nearest existing trees, public or private, and spaced forty (40) to forty-five (45) feet from each other, unless otherwise approved by the City Arborist.
- c. Large Trees: Forty-Five (45) to fifty-five (55) feet from nearest existing trees, public or private, and spaced fifty (50) to fifty-five (55) feet from each other, unless otherwise approved by the City Arborist.

Corner lots shall require two or more street trees depending on the length of frontage on each street for such lots.

Lots with 100 to 150 feet of frontage shall require two (2) street trees and for each additional 50 feet of frontage one (1) additional street tree.

6. The same species of tree should not be used on streets which are generally parallel and within five (5) blocks apart, unless otherwise approved by the City Arborist.

7. If a species of tree has been approved on a temporary dead end street, the same species of tree should be used on the extension of the street into the new subdivision.
8. More than one species of tree may be allowed to be planted on the same street provided the designated street tree for that same street is according to the Master Street Tree Plan and other compatible species are those identified as an approved grouping of street trees from the most current approved trees for streets for Lincoln, NE.
9. In order to encourage solar access, where subdivision or community unit plans have easements, covenants, or other controlling regulatory measure to protect solar access to building envelopes then the design standards may be modified to allow approved smaller or dwarf variety trees of the same genus on the north side of east-west streets, provided however that trees of the same species be used if possible.
10. Plants shall be nursery grown, first class material, straight single stemmed and must meet the standards set forth in "American Standard for Nursery Stock" (ANSI Z60.1-2004 or most current edition) and as further specified herein. Plant Material shall be obtained from established commercial licensed nursery growers and installed by licensed nursery and/or landscape contractors.

(Resolution A-84549, September 24, 2007).

Chapter 3.100

DESIGN STANDARDS FOR OUTDOOR LIGHTING

The Building and Safety Department is assigned responsibility for administration of these design standards.

Section 1. GENERAL PROVISIONS

All outdoor luminaires installed after the date Resolution (Misc. No. 08009) is adopted shall be installed in conformance with the provisions of this chapter and the applicable provisions of the City of Lincoln regulating the installation of such fixtures.

No illumination source shall exceed initial output of 4050 lumens unless it is within a cutoff or full cutoff luminaire, except for luminous tube lighting such as neon, cold cathode and fiber optic cable, or as specified for Class II or Class III lighting, or as otherwise provided in this chapter.

All fixtures greater than 4050 lumens, except as specifically provided for in this chapter, shall be cutoff or full cutoff and mounted level in the horizontal and vertical axis with the central part of the beam directed vertically downward.

The installation of any mercury vapor luminaires for use as outdoor lighting is prohibited.

Section 2. MATERIALS AND METHODS OF INSTALLATION

The City of Lincoln encourages the use of quality materials, methods and designs. It is not the intent of this chapter to prevent the use of any design, material or method of installation not specifically forbidden; provided, any such alternate has been approved. The Building and Safety Department may approve any such proposed alternate if manufacturers' documentation provides satisfactory evidence that the proposed alternate is equivalent to the applicable requirements of this chapter.

Section 3. DEFINITIONS

The following terms and definitions shall apply in the enforcement and interpretation of this chapter:

Class I lighting (General) shall mean all outdoor lighting used to illuminate outdoor areas other than areas described for Classes II through IV.

Class II lighting (Accent/Decorative) shall mean all outdoor lighting used for accent or decorative effects. Examples of Class II lighting include, but are not limited to, the illumination of landscape features, flags, pennants or banners, fountains, statues, art work, and building walls.

Class III lighting (Street Lighting) shall mean all outdoor lighting used to illuminate public streets or highways and private roads subject to public access easement.

Class IV lighting (Outdoor Recreational Facilities) shall mean all outdoor lighting used to illuminate outdoor recreational facilities.

Class V lighting (Salt Creek Tiger Beetle Environs) shall mean all outdoor lighting used to illuminate the area within the Salt Creek Tiger Beetle environs (this is a holding class for anticipated Federal Standards).

Cutoff and Full-Cutoff shall mean outdoor light fixtures shielded or constructed by the manufacturer so as to comply with the Illuminating Engineering Society of North America (IESNA) definition for cutoff and full cut-off outdoor lighting fixtures as found in the IESNA Lighting Handbook, 9th edition.

Display Area shall mean the area used for the outdoor display of merchandise for sale including aisles between the display.

Field Angle shall mean the angle of the cone of light from reflector lamps or flood luminaires encompassing the central part of the beam out to the angle where the intensity is 10 percent of maximum.

Foot-candle (abbreviated fc) shall mean a unit of measure of illumination (number of lumens per area) or how much light is on a surface. A foot-candle is defined as one lumen per square foot.

Glare shall mean the amount of direct or indirect artificial light (measured with the meter vertical at 5 feet above ground level and rotated in a horizontal plane so it is facing the brightest source) in excess of the vertical foot candle limits allowed by Section 9 of this chapter.

IESNA shall mean Illuminating Engineering Society of North America.

Illuminance shall mean the amount of light falling onto a unit area of a horizontal surface (luminous flux per unit area) measured in lumens per square foot (foot-candles) at 3 feet above ground level.

Light trespass shall mean the amount of direct or indirect artificial light (measured with the meter horizontal and facing upwards at 3 feet above ground) in excess of the horizontal foot candle limits allowed by Section 9 of this chapter.

Lumen shall mean a unit of light emitted from a source. Where used in this chapter, lumen shall mean the “initial” manufacturer published amount emitted from the lamp or lamps constituting the source. (Note; 4050 lamp lumens is generally equivalent to one 50 watt high pressure sodium or one 200 watt incandescent lamp.)

Luminaire shall mean a complete manufactured and UL listed lighting unit consisting of a lamp or lamps, together with the parts designed to distribute the light, to position and protect the lamps and to connect the lamps to the power supply.

Mounting height shall mean the distance from finished grade to the bottom most portion of any light emitting source, (e.g. lamp, surface of lens).

Nit is a unit of luminance equal to one candela per square meter.

Outdoor recreational facilities shall mean public, or private facilities designed and equipped for the outdoor conduct of sports, leisure time activities, and other customary and usual recreational activities. Outdoor recreational facilities include, but are not limited to, fields or stadiums for softball, baseball, football, soccer, golf courses, driving ranges and other “field sports,” and courts for tennis, basketball, volleyball, handball and other “court sports.”

Parking area shall mean an area, other than a street, designed or used primarily for parking of vehicles. This includes both “required” and “surplus” parking areas for residential, commercial and industrial uses, and inventory storage areas for automobile dealerships, but not display areas.

Person shall mean any natural person, firm partnership, association, corporation, company, or organization of any kind.

Private shall mean an area, street or facility that is not available for use by the general public.

Public shall mean an area, street or facility, whether publicly or privately owned, that is available for general public use, either free or for remuneration.

Residential shall mean an area or development in which the land use is zoned or used for single family, two-family or multi-family dwelling units. It shall include public streets and private roads within such areas.

Section 4. CLASS I LIGHTING (GENERAL)

4.1 Requirements

- A. Exterior lighting for outdoor vehicle display area shall not exceed an average maintained illuminance of 20 footcandles.

If any portion of the outdoor auto display area is within 500 feet of residential zoning, the average maintained illuminance shall not exceed 20 footcandles and the luminaires shall be full cutoff for the entire outdoor vehicle display area.

- B. Outdoor areas under lighted canopies, such as gas pump islands and ATM bays, shall not exceed an average maintained illuminance of 20 footcandles.

If any portion of the canopy area is within 500 feet of a residential zoning district, the average maintained illuminance shall not exceed 20 footcandles and the luminaires shall be full cutoff or mounted so that the bottom of the lens is recessed or flush with the bottom surface of the canopy for the entire canopy area.

- C. Class I lighting in residential zoning districts shall not exceed an average maintained illuminance of 4 footcandles. All other Class I lighting, including but not limited to lighting of entrance ways, dining areas, display of merchandise other than vehicles and outdoor work areas shall not exceed an average maintained illuminance of 6 footcandles.
- D. All Class I lighting levels shall be reduced to an average maintained illuminance level of 4 footcandles after business hours.
- E. Illuminance level shall not exceed 4 footcandles average maintained on parking surface for off-street parking.

Section 5. CLASS II LIGHTING (ACCENT/DECORATIVE)

5.1 Requirements

- A. Luminaires used to illuminate buildings, flags, artwork or other landscape features may have lamps exceeding an output of 4050 lumens and be non-cutoff in design and aimed upward, but the field of angle of the lamp may not extend beyond the surface to be illuminated, or the luminaire must have shielding to provide the same limiting effect.
- B. All Class II lighting must be selected, installed and aimed so that the amount of light trespass and glare beyond the area intended to be lighted is minimized or eliminated.

Section 6. CLASS III LIGHTING (STREET LIGHTING)

6.1 General Requirements

- A. LES shall prepare or approve all designs for all lighted streets. LES will install and/or operate and maintain City of Lincoln street lighting for all lighted streets. LES shall establish, encourage, promote and employ energy conservation measures in the design, operation and maintenance of these street lighting systems.
- B. Only high-pressure sodium (HPS) sources or an equivalent or higher efficiency source shall be used.
- C. Street lighting may exceed trespass and glare standards.

- D. All luminaires for street lighting shall be mounted level in the horizontal and vertical axis.

6.2 Design Requirements

Street lighting design shall be done in accordance with the IESNA “AMERICAN NATIONAL STANDARD PRACTICE FOR ROADWAY LIGHTING”, 9th edition, except as specifically provided in this section.

6.3 Standard Street Lighting

LES may install/replace and maintain, “standard lighting” in any area where the City Council has not provided for “ornamental street lighting.” Informal petitions signed by affected property owners or requests by the Mayor, City Council, Police Department or Public Works Department will precipitate investigation by LES Street Light Engineering to design and order the installation of justifiable lighting.

The standard street light shall normally consist of a wood pole and bracket with a pendant luminaire. Wiring will be underground in areas with an underground source and overhead in areas with an overhead source. Whenever directed by the Public Works Department, wiring shall be installed underground.

For local residential streets, lamps shall be 70 watt high pressure sodium sources or equivalent efficiency sources. Poles shall generally be twenty feet high mounting height and placed at street intersections and mid-block with normal interval spacing of 240 feet.

For all other streets, the street lights intensity will be designed to 70% or higher of IESNA recommended practices depending on the uniformity.

6.4 Ornamental Street Lighting

Ornamental Lighting shall be constructed in areas designated by the City Council as “Ornamental Lighting Districts” or mayoral “Executive Order” areas and shall be of a design specified to provide illumination in accordance with these standards. Such systems are to be served by underground wiring and design/construction will consist of a metal, concrete or fiberglass Standard (pole).

For local residential streets the standard street lamp/luminaire will be post top with a 70 watt high pressure sodium vapor type light, or an LES approved lamp/luminaire source of equal or greater efficiency, mounted generally 20 feet above grade. The units shall be located at all intersections and at approximate mid-block normal interval spacings of 240 feet.

For all other streets, the street lights intensity will be designed to 70% or higher of IESNA recommended practices depending on uniformity. The City Council authorizes the City Engineer or subdivision developer (in the case of “Executive Order” areas) to advertise for equipment and

installation-construction bids for ornamental lighting. LES is responsible for inspecting and monitoring work done by contractors and maintaining the lighting after its installation.

6.5 Supplemental Streetscape Lighting

Supplemental streetscape lighting shall be for decorative purposes only and are not intended to light the street. No supplemental streetscape light shall exceed 4050 lumens unless it is within a cutoff luminaire.

6.6 Existing Street Lighting (replacement)

LES will replace existing street lighting if it has been determined that maintenance of the existing system is no longer economically feasible. LES will replace the system with standard components equivalent to those currently being installed. Requests for special lighting equipment requires specific action by property owners/developers and approval by the LES Engineering staff.

If an existing wood pole (bracket style) area desires ornamental lighting, the property owners in that area shall pay the difference between such “standard street lighting” and “ornamental residential street lighting.”

6.7 Arterial Street Lighting

“Permanent” arterial lighting consists of metal, concrete or fiberglass poles specifically designed to support bracket mounted pendant street lights, generally served with underground wiring. The street lights intensity will be designed to 70% or higher of IESNA recommended practices depending on uniformity.

“Temporary” arterial lighting may consist of wood utility poles supporting bracket mounted fixtures served overhead. Such systems will be converted to permanent at such time as roadway improvement factors, capital improvement funds and system age priorities permit.

6.8 Street Light Maintenance

LES will responsibly maintain street lighting in a manner recognizing public safety and convenience needs of such systems.

The principal objective is to keep as many lights as possible functioning properly and responding promptly to “light-out” call-ins.

Lighting which becomes unreliable and maintenance prone will be replaced as expeditiously as possible, within budget limitations.

Section 7. CLASS IV LIGHTING (OUTDOOR RECREATIONAL FACILITIES)

7.1 Requirements

- A. Except, as noted in this section hereinafter, recreational facilities shall be lighted in accordance with the IESNA RP-6 standards for “SPORTS AND RECREATIONAL AREA LIGHTING,” latest edition, including standards for illuminance and uniformity ratio.
- B. Glare Control
 - 1. The luminaires shall meet, when installed and aimed, IES “Cutoff” type luminaire designation as defined in the IESNA Lighting Handbook, 9th edition.
 - 2. Sports flood luminaires shall have a maximum aiming angle up from nadir (the point 90 degrees down from horizontal) of seventy-two (72 degrees) above nadir or two times the mounting heights out from the pole the fixture is mounted on, whichever is less.
- C. Time of Operation
 - 1. Outdoor recreational and sports facilities, except golf driving ranges, may remain lighted past 12:00 midnight to complete recreational and sports activities that are in progress and under illumination at 12:00 midnight and still be in conformance with this chapter, i.e., activities in progress may complete after 12:00 midnight, but they cannot start under illumination after 12:00 midnight. However, in no case shall the illumination stay on past 12:30 a.m..

Lighting for golf driving ranges shall be off between 11:00 p.m. and sunrise.

Section 8. CLASS V LIGHTING (SALT CREEK TIGER BEETLE ENVIRONS)

These requirements will be developed by the United States Fish and Wildlife Service and amended into this code when available.

Section 9. LIGHT TRESPASS AND GLARE

- A. All lighting except, Class III (street lighting) or as otherwise exempted elsewhere in this chapter, shall meet the requirements for luminaire, shielding, placement and aiming to minimize light trespass and glare such that:

1. No more than 2.0 foot-candles is measured on a vertical plane located at the property line of the adjacent property.
 2. Light trespass from a non-residential use abutting, or across the alley from, a residential district shall not exceed 0.5 footcandles at the residential property line measured on a horizontal plane.
- B. Exterior building surfaces shall not exceed an average surface brightness of 750 nits.
- C. Signs are regulated for surface brightness by Chapter 27.69 of the LMC. Sign illumination shall be included in the measurement of light trespass.

Section 10. SUBMISSION OF PLANS AND EVIDENCE OF COMPLIANCE

- A. The application for a building permit involving outdoor lamps (except Class III lighting) that exceed 4050 lumens shall include evidence that the proposed work will comply with this chapter. Single-family and two-family dwellings are exempt from the requirements of this section. The submission shall contain, but not be limited to, four complete sets of the following:
1. The location of the site where the outdoor luminaires or outdoor light fixtures will be installed;
 2. Plans showing the location, type and the mounting heights of all fixtures, both existing and proposed, on the premises, including point-by-point lighting level (initial and maintained) printouts with calculation areas delineated and average values and initial horizontal and vertical values at 20 foot intervals across all property lines.
 3. A description of the outdoor light fixtures including, but not limited to, manufacturer's catalog cuts, ITL photometric report with candela distribution, drawings, and shielding information.
 4. Justification for light loss factors (LLF) utilized by the calculations for the light levels submitted.
- B. The above required plans and descriptions shall be sufficiently complete to enable the City to readily determine whether compliance with the requirements of these design standards will be met. At a minimum, the plans shall show point-by-point horizontal foot-candle levels (initial and maintained) for all areas of the project subject to these Design Standards for Outdoor Lighting. The plans shall also include horizontal and vertical foot-candle levels at twenty foot intervals at all property lines. These horizontal and vertical levels shall be taken at the heights required by this code. If such plans and descriptions cannot enable the City to make a determination

of compliance with the requirements of these design standards by reason of the nature or configuration of the devices, fixtures or lamps proposed, the applicant shall submit further evidence of compliance enabling such determination.

- C. Submittal and drawings shall be signed by a professional engineer licensed in Nebraska, a lighting designer certified by the National Council on Qualifications for the Lighting Profession (NCQLP) or by the licensed electrical contractor that is performing the work. This engineer, lighting designer or contractor shall certify that the submitted design meets these design standards. Submittal must contain the name of the company that prepared the drawings and the name, title and telephone number of the person that performed the design work.
- D. All projects resubmitted for approval shall include a written description of all changes and comments keyed and attached to the plan check comments.
- E. Plans and calculations are not required when an electrical contractor submits an application for an electrical permit; however, the contractor or associated engineer or lighting designer shall certify that the intended work meets these design standards.

Section 11. INSTALLATION

The owner or contractor of record (except Class III lighting) shall install the approved outdoor luminaires or outdoor light fixtures in conformance to the listing, manufacturer's installation specifications, and all applicable local and state electrical codes. An electrical permit and inspection by the City of Lincoln Department of Building and Safety is required.

Section 12. PERMANENT EXEMPTIONS

- A. Nonconformance. All outdoor luminaire existing and legally installed prior to the adoption of Resolution (Misc. No. 08009) are exempt from the requirements of this chapter, except that when existing luminaires are reconstructed or replaced, such reconstruction or replacement shall be in compliance with this chapter, unless it is part of a larger set of the same fixtures, being replaced with the same type of fixture, and no other fixture in that set has been replaced in the past 3 months.
- B. Fossil Fuel Light. All outdoor light fixtures producing light directly by combustion of fossil fuels (such as kerosene lanterns and gas lamps) are exempt from the requirements of this chapter.
- C. Holiday Decorations. Lights used for holiday decorations are exempt from the requirements of this chapter.
- D. Other Uses. Airport lighting which is required for the safe and efficient movement of aircraft during flight, take off, landing, taxiing, loading, unloading, and servicing

areas is exempt from the provisions of this chapter. All other outdoor lighting at airport facilities shall comply with the provisions of this chapter. These standards also shall not apply to correctional facilities, heliports, hospital emergency entrances, outdoor workers governed by OSHA standards, or other uses for which lighting standards are preempted by federal or state regulations.

- E. This chapter shall not apply to portable temporary lighting used by law enforcement, utilities or emergency services personnel.

Section 13. TEMPORARY EXEMPTIONS

- A. General. Temporary exemptions are required to be approved for any situation that is not allowed by this chapter where temporary lighting is required including, but not limited to, search lights, construction, parades, special civic or public events, special business events, grand openings of businesses, etc: The exemption shall be permitted on the premises for no more than two occasions and for no more than a combined total of ten days in any calendar year.

(New Chapter 3.100 adopted by Resolution No. A-85012, 9-15-08)

14.80.110 Snow and Ice Removal.

Every owner or occupant of any house or other building, or the owner or proprietor, lessee, or person entitled to the possession of any vacant lot, and any person having charge of any church, jail, or public hall, or public building in the city shall, during the winter season and during the time snow shall continue on the ground, before 9:00 a.m. the morning subsequent to the cessation of any snow storm, clear the sidewalks in front of such lots from snow and ice and keep such sidewalks free from snow and ice during the day; provided, however, all owners or occupants of any properties within the area bounded by 7th Street on the west and 17th Street on the east and "K" Street on the south and "R" Street on the north shall before 9:00 a.m. every morning, clear the sidewalks in front of such lots from snow and ice and keep such sidewalks free from snow and ice throughout the day, or in case the snow and ice are so congealed that they cannot be removed without injury to the sidewalk, shall apply sand or approved de-icing agent in sufficient quantities to cause said walk to be safe for pedestrian traffic. Said owner shall also at all times keep such sidewalks clear and free from all dirt or filth, or other obstructions or encroachments so as to allow pedestrians to use said sidewalks with safety. Failure on the part of any person upon whom a duty is placed by the provisions of this section to perform such duty shall be deemed a misdemeanor and punishable as in this code provided.

In case of non-compliance with the provisions of this section, the Sidewalk Inspector may have the walks cleaned and report the cost thereof to the City Council who shall assess the cost thereof against the abutting real estate in the following manner:

The Sidewalk Inspector shall place a written notice on the front door or other conspicuous place on the property ordering the sidewalks along the same or any portion thereof to be cleared immediately and providing a deadline to complete the same of not less than twelve hours after posting the same. The Sidewalk Inspector shall, not later than May 1 of each year, report to the City Council the location of the sidewalks from which snow and ice has been removed after the required notice, together with the description of the real estate abutting upon such sidewalk, and the cost of the removal of such snow and ice. Whereupon the City Council shall at a regular council meeting, by resolution, assess such cost against such real estate; provided, that notice of the time of such meeting of the City Council for making such assessment and the purpose of such meeting shall be published once in a newspaper published and of general circulation in the city at least five days before said meeting of the council is held; in lieu thereof, notice may be given such owner by personal service thereof five days before such meeting. Such assessment when assessed as provided herein shall be certified by the City Clerk and delivered to the City Treasurer on or before October 1 and shall be collected in the manner provided by law for the collection of general real estate taxes. Such assessment shall be a lien upon such real estate as of October 1 following the date of assessment and shall become delinquent December 1 after the date of assessment, and shall draw interest at the rate of one percent per month from said date until paid. It shall be the duty of the City Treasurer to collect said tax in the same manner and at the same time as general taxes, and the items of said tax shall be receipted for on the same receipt blank as general real estate taxes. (Ord. 18295 §1; January 26, 2004; P.C. §14.80. 140: Ord. 15117 §9; March 6, 1989: Ord. 13391 §7; June 1, 1982: Ord. 3489 §39-113, as amended by Ord. 3644; April 24, 1939).



LINCOLN CARES 2011 PROJECTS

The following projects are made possible with funds from Lincoln Cares donations and our matching project sponsors. Thank you, Lincoln!

- 1. Nebraska's Centennial Mall**
Project Sponsor: Lincoln Parks Foundation
- 2. Sherman Field Support Facilities**
Project Sponsor: Culver's
- 3. Street Trees**
Project Sponsor: Lincoln Community Foundation Ken Good Fund
- 4. Jayne Snyder Trails Center**
Project Sponsor: Great Plains Trails Network
- 5. Pioneers Park Nature Center - Animal Care**
Project Sponsor: Friends of Pioneers Park Nature Center
- 6. Parker's Pals Scholarships**
Project Sponsors: Lincoln Area Retired Teachers, Olsson Associates Community Builders
- 7. Densmore Ball Field Spectator Seating Shade Structure**
Project Sponsor: Michael Sucha Memorial Fund/Annual Memorial Golf Tournament

For a complete list of past projects funded by Lincoln Cares, please visit: LincolnCARES.org



Many, many thanks to our sponsors!

Help keep our parks beautiful with just a buck!



Community donation program for Lincoln Parks & Recreation



It's amazing
what \$1 can do!



For just \$1,
you could buy
a coffee...
a candy bar...
or your favorite soda.

But did you know that for just a buck,
you can help fund projects and programs
that make Lincoln a special place to live?

Lincoln has one of the best park systems in
the nation, with 127 parks and 128 miles of trails
connecting every part of our city. Studies show that
parks and recreation facilities and programs help
make a more healthy, active, and vibrant community.

Since 2003, LES customers have
donated \$1 each month to **Lincoln Cares**,
providing much-needed additional
funds for our Lincoln Parks and Recreation
facilities and programs.

When you pay your LES bill, give a \$1 to **Lincoln Cares**.
You will be surprised at **the benefit of a buck!**

* The Lincoln Cares Program is supported by voluntary contributions to help fund park improvement projects. If you would like to contribute, please include an additional \$1.00 with your utility payment. For more information, please call 441-8264 or visit www.lincoln.ne.gov

THIS PERIOD THIS YEAR		THIS PERIOD LAST YEAR		DUE DATE	AMOUNT DUE TO LES
Total KWH	Average KWH Per Day	Total KWH	Average KWH Per Day		
481	18	454	16	02/15/11	\$53.11

P.O. Box 80869
Lincoln, NE 68501-0869

RETURN THIS PORTION WITH YOUR PAYMENT

It's only a buck!

Total Including Lincoln Cares Donation*

\$54.11

DUE DATE	AMOUNT DUE TO LES

5 Easy Ways to Donate

1. Simply add \$1 to your LES bill payment each month.
2. Add **Lincoln Cares** to your automatic bill payment by calling LES at 475-4211.
3. Pay your LES bill automatically. Log onto www.LES.com and click on the "Pay Your Bill" tab. Then click on the "LES Automatic Bank Billing Form" option. You'll save time, stamps and paper!
4. Send a donation of any amount to Lincoln Parks Foundation, 2740 A St., Box 201, Lincoln, NE 68502. Make the check payable to **Lincoln Cares**.
5. Donate online at **LincolnCARES.org**.

City of Lincoln - Capital Improvement Program

Key to Funding Sources

Athletic Fees: This local funding source is generated from a surcharge applied to registration fees for various athletic program activities. Revenues that exceed expenses are used to make specific improvements to athletic fields and facilities.

Advance Acquisition: This funding source provides resources from sources such as property tax, sales tax or special revenues to be used for the acquisition of real estate or right-of-way for public purposes. This funding source may come from local, state or federal funds.

Bridge Replacement: This federal funding source provides resources to assist the City to replace or rehabilitate deficient highway bridges.

City Wheel Tax, Residual: This local funding source is generated by a City tax on all vehicles registered within the corporate limits. A portion of the City Wheel Tax is specifically dedicated to only fund the construction, design, and right-of-way acquisition of streets, roads, alleys, public ways, or parts thereof, or for the amortization of bonded indebtedness when created for such purposes.

City Wheel Tax, Residential Rehabilitation Fund: A portion of the City Wheel Tax is specifically dedicated to be used only for the purpose of rehabilitating existing residential streets.

City Wheel Tax, New Construction: This local funding source is generated by a City tax on all vehicles registered within the corporate limits. A portion of the City Wheel Tax is dedicated to fund general street improvements and/or new construction in the City.

Community Development Block Grant (CDBG): This federal funding source is from the City's CDBG Entitlement appropriation and used to fund projects recommended by the Comm unity Development Task Force. Federal guidelines require that a minimum of 70% of these funds be spent on projects and programs that benefit low- and moderate-income persons within the community.

Community Improvement Financing: This local funding source is generated from City approved Redevelopment Projects and provides resources through bonds, generated by tax increment financing, as guided by Community Development Law provided in the Nebraska State Statutes.

Congestion Management Air Quality: This federal funding source provides resources to fund projects and programs in air quality non-attainment and maintenance areas for ozone, carbon monoxide (CO), and small particulate matter (PM-10) which reduce transportation related emissions.

Developer Contribution: This funding source is generated from private development to support specific public projects.

Federal Aid: These funds include any Federal subsidy received in aid of a public undertaking.

Federal National Highway System: Provides federal resources for improvements to roads and related infrastructure that are part of the National Highway System.

Federal Urban Area Projects: This federal funding source is designated for urbanized areas with over 200,000 population and provides resources for a variety of eligible transportation projects.

Golf Capital Improvements: This local funding source is generated from golf course revenues that exceed expenses and used to make golf course improvements.

General Obligation Bonds: These bonds are backed by the full faith and credit of the City and require voter approval. The City pays the principal and interest on General Obligation Bonds through a property tax levy.

General Revenues: The general fund provides resources from sources such as property tax and sales tax for general operating functions of City departments. This local funding source represents pay-as-you-go contributions from the general fund for capital projects with or without other funding sources.

Highway Allocation Bonds: These Bonds are payable from a specific source of revenue (State fuel tax, and City Wheel Tax). These funds are designated for projects throughout the City to rehabilitate, construct and improve streets, intersections/ interchanges, sidewalks, bikeways and trails, safety projects, intelligent transportation infrastructure, and landscaping in connection with street improvement projects. These funds are also used in the study, design, acquisition of easements or right-of-way to support public projects.

Highway Allocation Funds: State fuel tax collections allocated to the City via a State funding formula. These funds are designated for projects throughout the City to rehabilitate, construct and improve streets, intersections/ interchanges, sidewalks, bikeways and trails, safety projects, intelligent transportation infrastructure, and landscaping in connection with street improvement projects. These funds are also used in the study, design, acquisition of easements or right-of-way to support public projects.

Impact Fees: This local funding source is dedicated for new infrastructure in the following categories: water, wastewater, parks, and arterial streets. An impact fee charge is levied against new development to generate revenue to support specific public projects. Impact fees are a one-time, up front charge paid by new construction only. The fees can generally be used on public projects within the district that it is collected.

Keno Funds: This local funding source is provided through an agreement between the City and Keno operators within the corporate limits. A percentage of gross receipts from gaming operations are to be used for the purchase, establishment, maintenance or expansion of park and recreational services and library programs and facilities.

Lancaster County: Provided by Lancaster County to support specific projects. This funding source represents pay-as-you-go contributions from general funds for capital projects with or without other funding sources.

Land Sale Proceeds: This local funding source is provided through the sale of City surplus property. The revenues generated are used for specific public projects.

Landfill Revenue: This local funding source is generated from disposal fees levied on commercial refuse haulers and residents. Revenue that exceeds expenses are used to make landfill improvements.

Lease Purchase Financing: Proceeds from a financing agreement in which the City (lessee) purchases a capital item (asset) and agrees to pay rent payments to a lessor over a time period not to exceed the useful life of the asset. The rent payments will include principal and interest and the end of the term of the rent period, the City will own the asset.

Municipal Infrastructure Redevelopment Fund (MIRF): Provided by the State of Nebraska through annual appropriations and must be used for public infrastructure projects.

Other Financing: This revenue refers to sources of funding that are not normally used in the context of the City's CIP program.

Occupation Tax (Solid Waste): This local funding source was implemented in 2003 and levies a tax on the disposal of waste in the municipal landfill to support the City's integrated solid waste management system.

Parks & Recreation Repair and Replacement Fund: Revenue collected from the lease of Parks and Recreation Property for personal wireless facility towers. To be used for

repair and replacement of Parks & Recreation facilities.

Revenue Anticipation Notes: A short-term debt security issued on the premise that future revenues will be sufficient to meet repayment obligations.

Revenue Bonds: These Bonds are payable from a specific source of revenue and do not pledge the full faith and credit of the issuer. Revenue Bonds are payable from sources of revenue that do not affect the property tax rate. The City uses revenue bonds for Lincoln Water System, Lincoln Wastewater and Parking Garage public projects. Lincoln Electric System may also use revenue bonds to fund specific projects.

Railroad Transportation Safety District: This local funding source is generated by a county-wide public entity - the Railroad Transportation Safety District, which has taxing authority to levy a property tax. These funds are designated for projects throughout the City and County to eliminate automobile and railroad conflicts.

Service Charges: Income generated by the City's Parking Garages or other services and facilities. Revenues that exceed expenses are used to make specific improvements or construct facilities.

Special Reserves: Existing fund balances which have accumulated in a particular fund and have not been designated for a specific use.

State/Federal Funds: State and Federal funds received in aid of a public undertaking.

State Revenue or Aid: These funds include any State subsidy received in aid of a public undertaking.

State - Train Mile Tax: State tax on rail traffic passing through the City and used for constructing, rehabilitating, relocating or modifying railroad grade separation facilities.

STPP Hazard Elimination: This federal funding source provides resources for safety improvements on any public road for activities including railroad crossings, public transportation facilities and public pedestrian and bicycle pathways, and trails.

Tennis Fees: This local funding source is generated from tennis program activities. Revenues that exceed expenses are used to make specific improvements to tennis facilities.

Tree Assessment: A dedicated citywide special assessment to fund the cost of replacing public street trees systematically as they are removed due to damage, structural deficiency or disease, and to address replacing the current deficit of street trees in the estimated 12,000 "gaps" along public streets. Assessment also used to maintain and preserve existing public street tree infrastructure. Method of assessment per assessable units within city limits.

Transportation Enhancement: This federal funding source provides resources for transportation-related activities that are designed to strengthen the cultural, aesthetic, and environmental aspects of the transportation system.

User Fees: This local funding source is generated from user fee revenues from City services. Revenues that exceed expenses are used to support specific public projects.

Unknown: Generally used when a specific funding source has not yet been identified.

Utility Revenues: This local funding source is from a specific source of revenue. Utility Revenues are from sources of revenue that do not affect the property tax rate. Lincoln Electric System, Lincoln Water System and Lincoln Wastewater use utility revenues for capital improvement projects.