

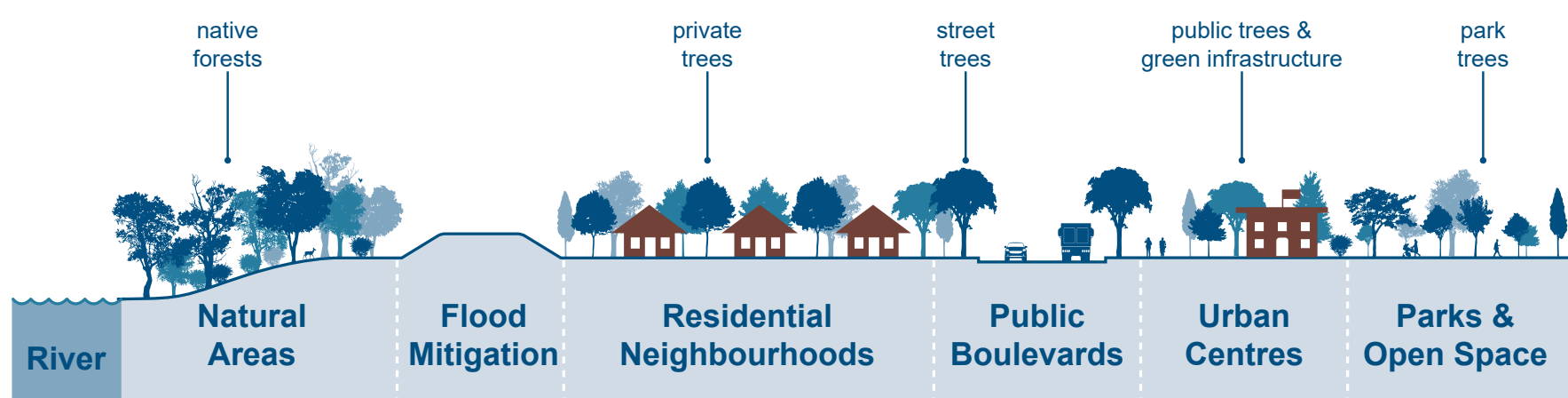
DRUMHELLER RESILIENCY & FLOOD MITIGATION

# **TREE REPLACEMENT & REVEGETATION STRATEGY**

**Downtown Berm | Hospital Extension Berm | Michichi Creek Berm | East Coulee Berm**

## Urban Forest Objectives

- Provide residents opportunity for a pleasant open space experience
- Enhance the aesthetics of public lands
- Encourage the preservation of existing trees and vegetation
- Enhance habitat & support biodiversity
- Provide environmental leadership by creating sustainable landscapes
- Providing a pleasant commuting & tourist experience by screening adjacent properties and roadways while supporting the safe movement of traffic
- Protecting the health, safety & welfare of the general public through air purification, oxygen production, water absorption, noise abatement, reducing glare & heat, and buffering wind
- Support healthy & safe trees
- Plant the right tree, in the right place, with the right care
- Manage public investment prudently & equitably



**COMPONENTS OF THE DRUMHELLER URBAN FOREST**

## Planting Targets



**25-50**  
YEARS

50-year lifespan for trees in groomed parks & roadways, 25-year lifespan for sidewalks



**AGE CLASS**

Plant a mix of long- & short-lived species



**DIVERSITY**

Species diversity should include max. 25% of any one genus, max. 20% of any one species, and max 10% of any one cultivar



**+ 1%**

**PER DECADE**

Increase public urban forest by 1% per decade with an ultimate canopy cover target of 20%



**GROWTH**

Identify & prioritize public planting opportunities to encourage intentional urban forest growth



**5:1**  
**5 x REPLACED**

For all berm projects, 5 trees or shrubs will be planted for each tree removed

Drumheller Valley **Preserving & Enhancing the Urban Forest**  
Standards & Techniques





american elm



amur cherry



trembling aspen



colorado blue spruce



white spruce



coyote willow



golden currant



green ash



balsam poplar



mugo pine



mountain ash



scots pine



laurel leaf willow



lilac



juniper



high bush cranberry



red osier dogwood



saskatoon



lodgepole pine



tree lilac



white spruce



wild rose



wild raspberry



potentilla

## Proposed **Tree & Shrub Species**



## **maintain berm integrity**

avoid planting within the footprint of the berm

## **5:1 replacement ratio**

for each tree removed, replace with 5 trees or shrubs

## **design for biodiversity**

plant a range of species to promote long-term success and resiliency

## **enhance existing plant community**

propose new trees & shrubs that are similar to those that are currently thriving

## **specify appropriate species**

plant only trees & shrubs that are native and/or adapted to the local climate

## **maintain existing resident views**

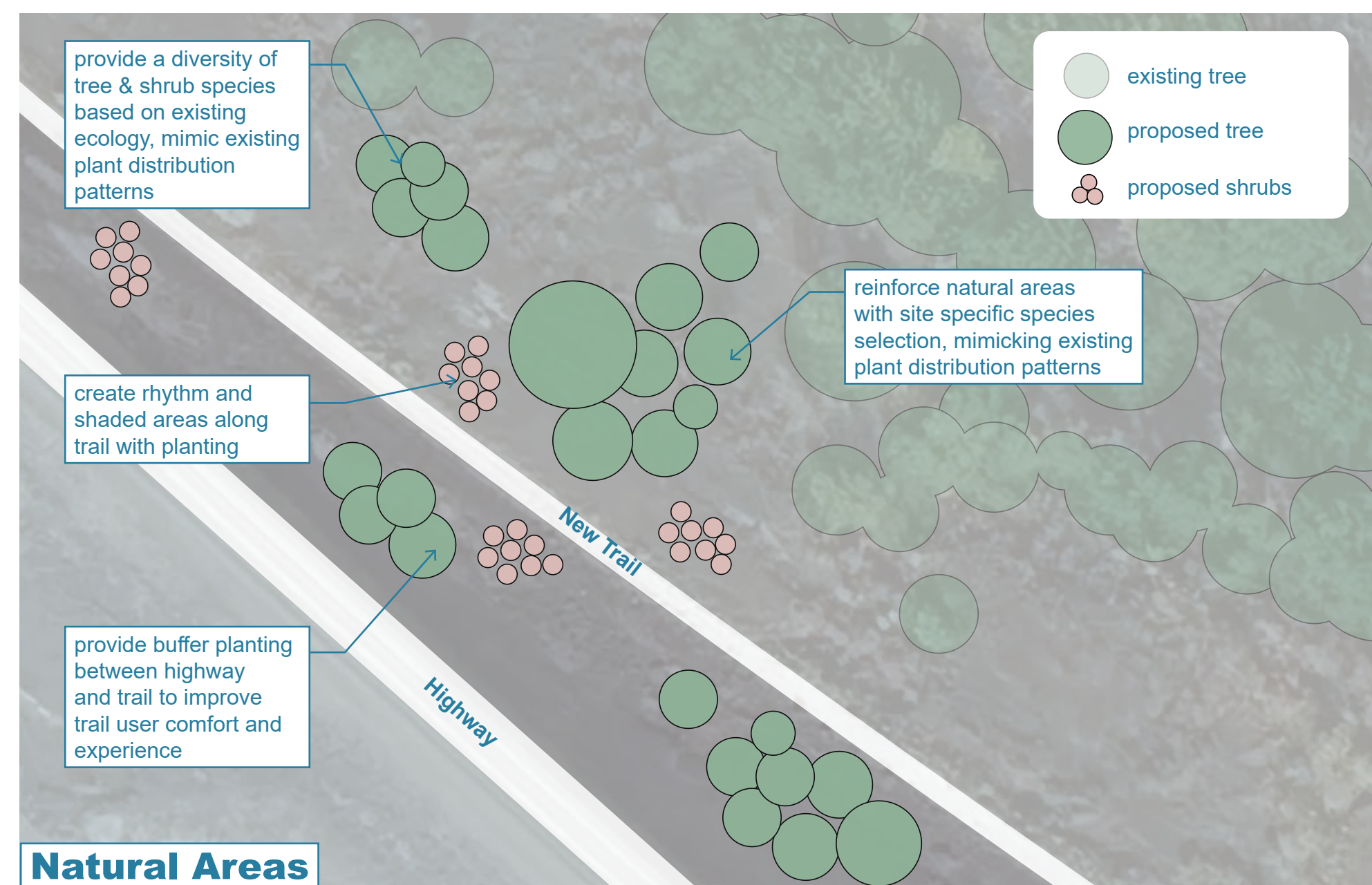
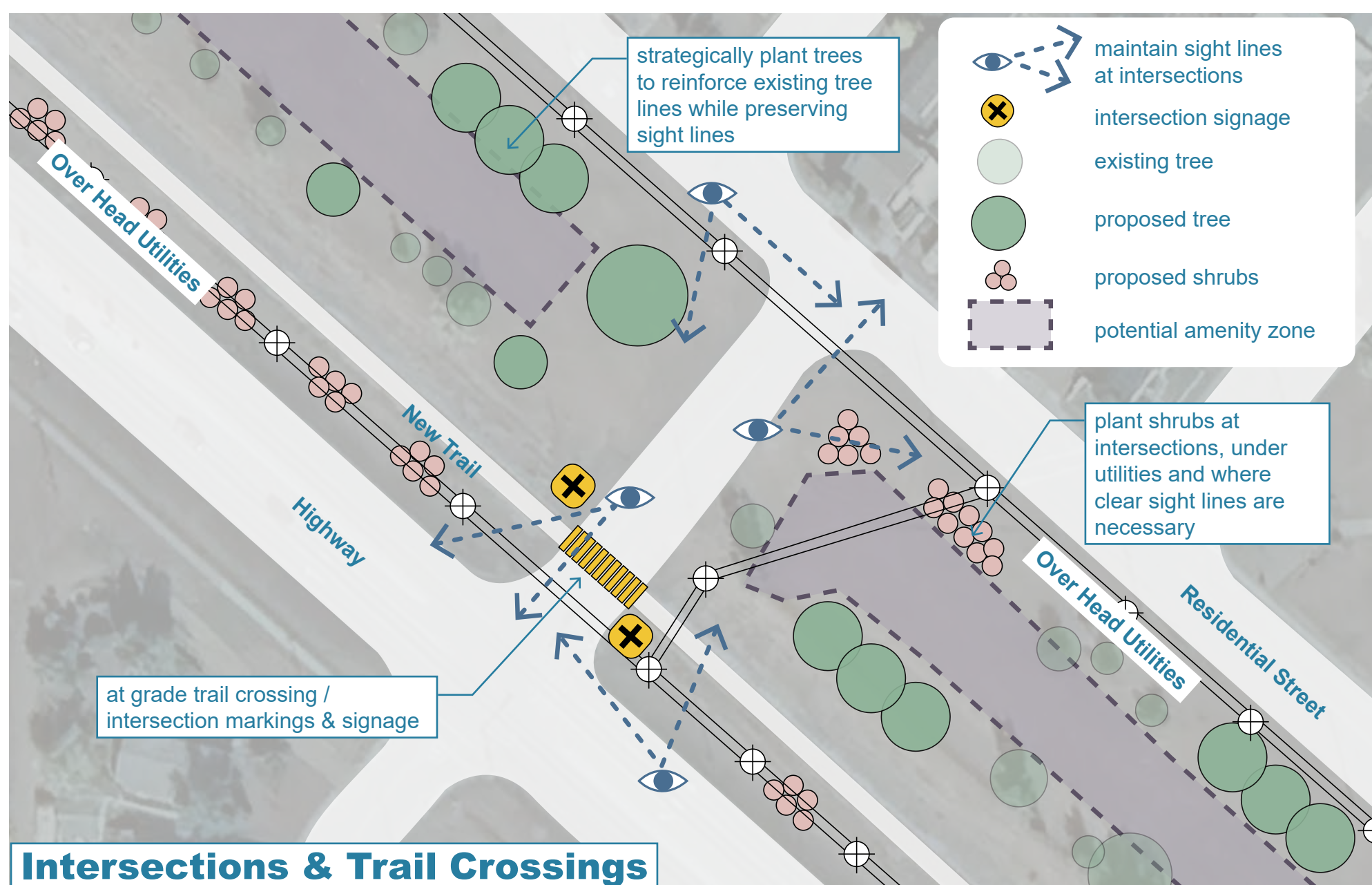
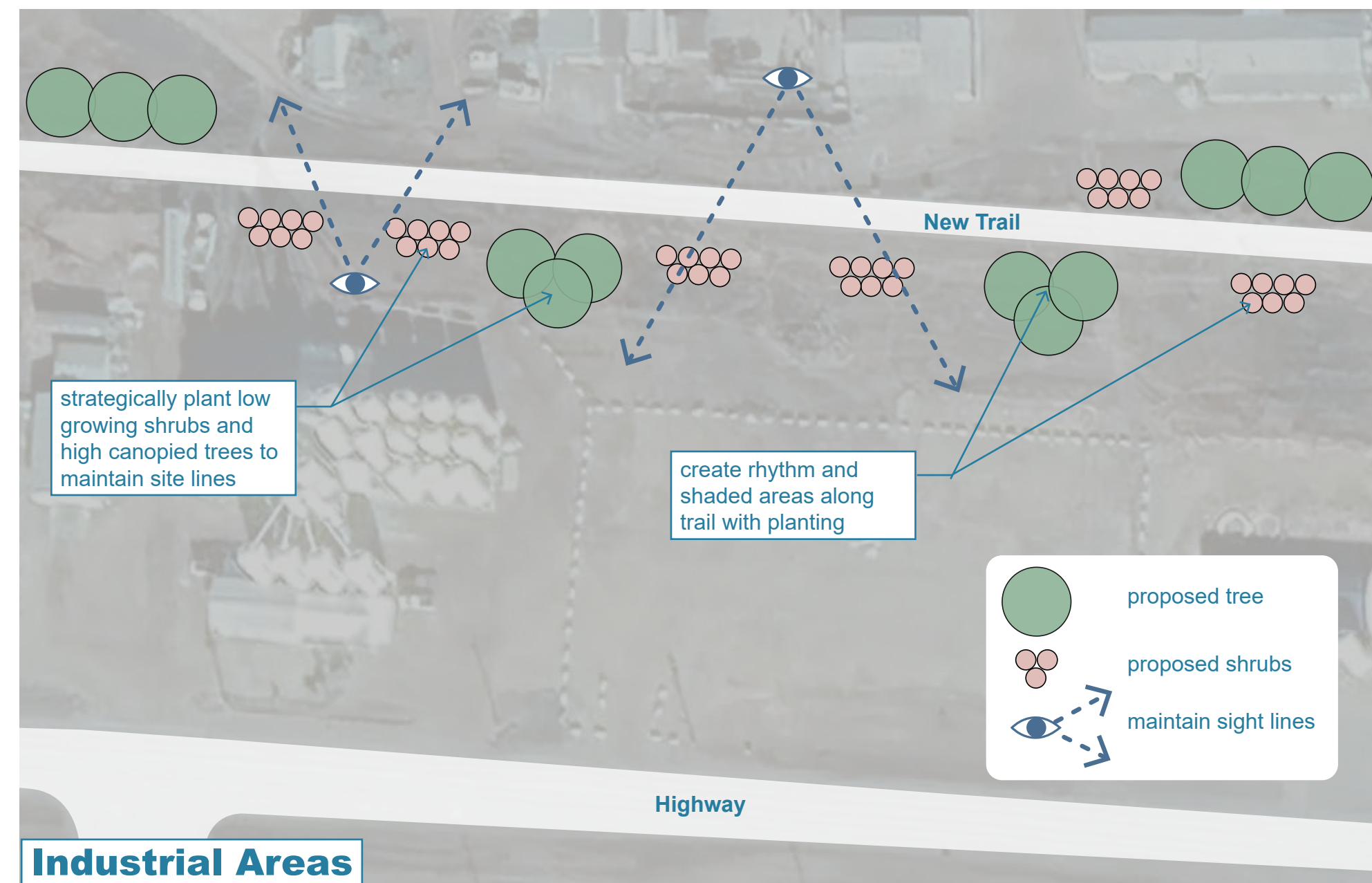
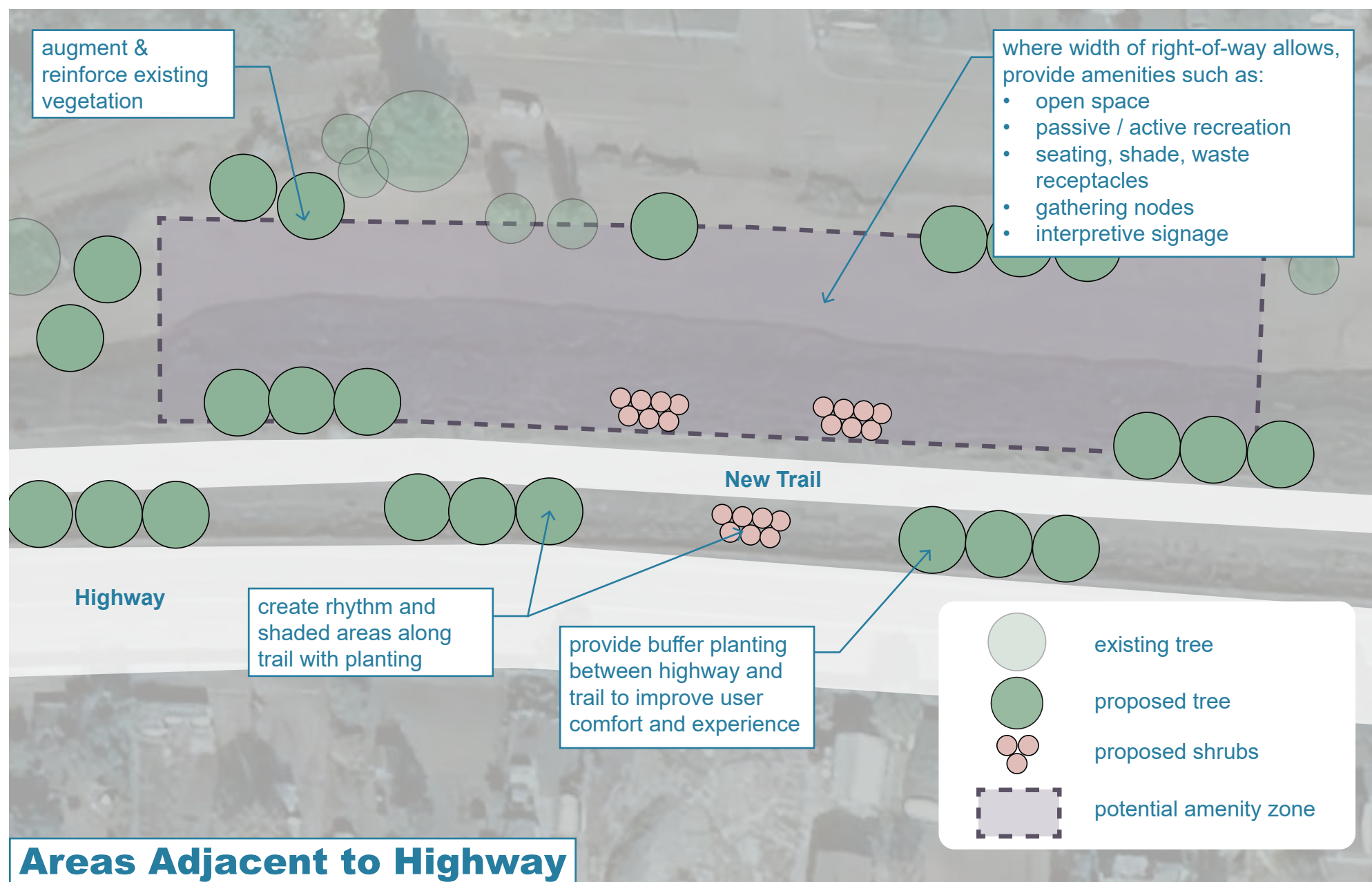
avoid planting large trees directly behind residences with existing views to the Red Deer River

## **improve public spaces**

enhance town green spaces with tree & shrub plantings, where feasible

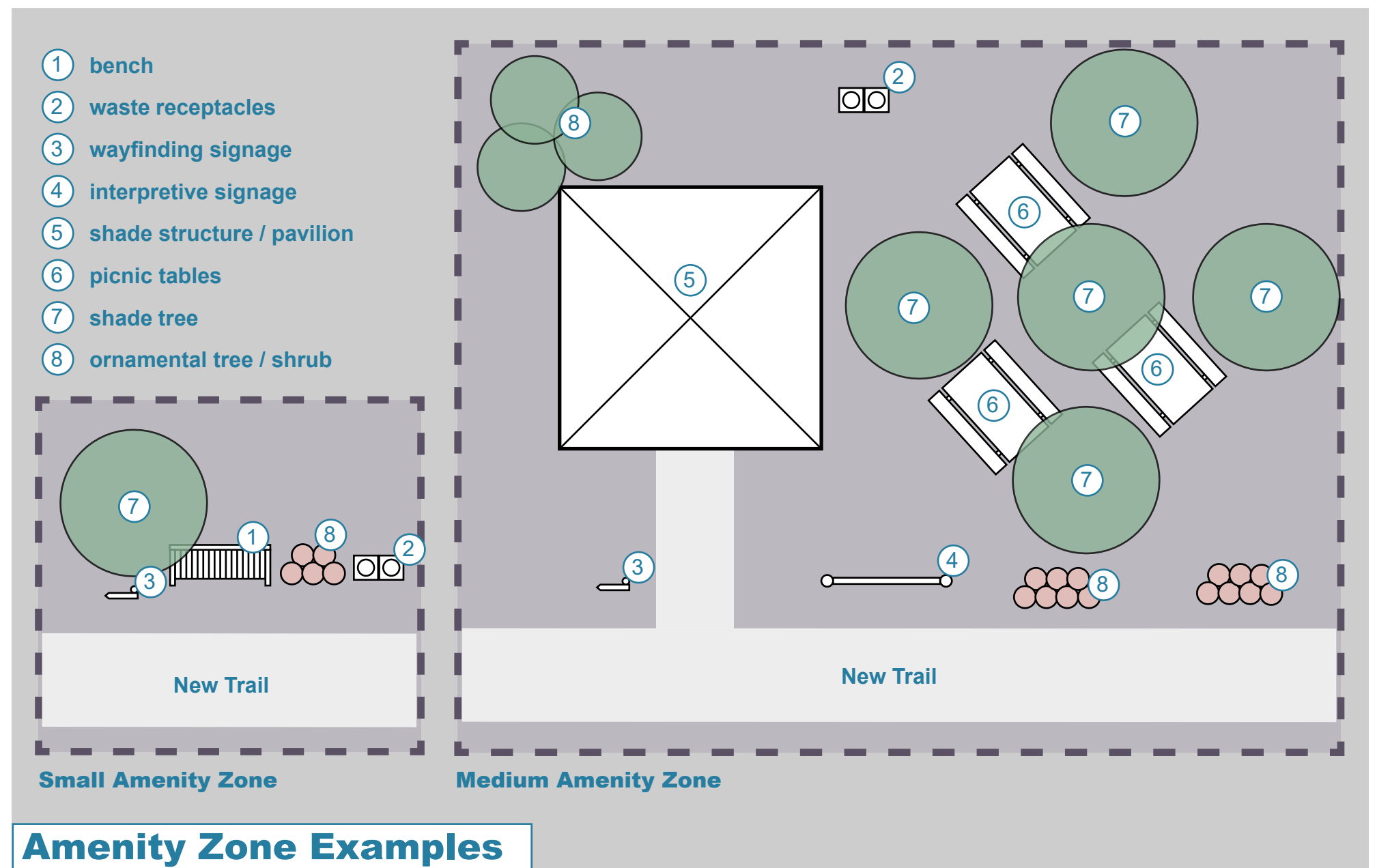
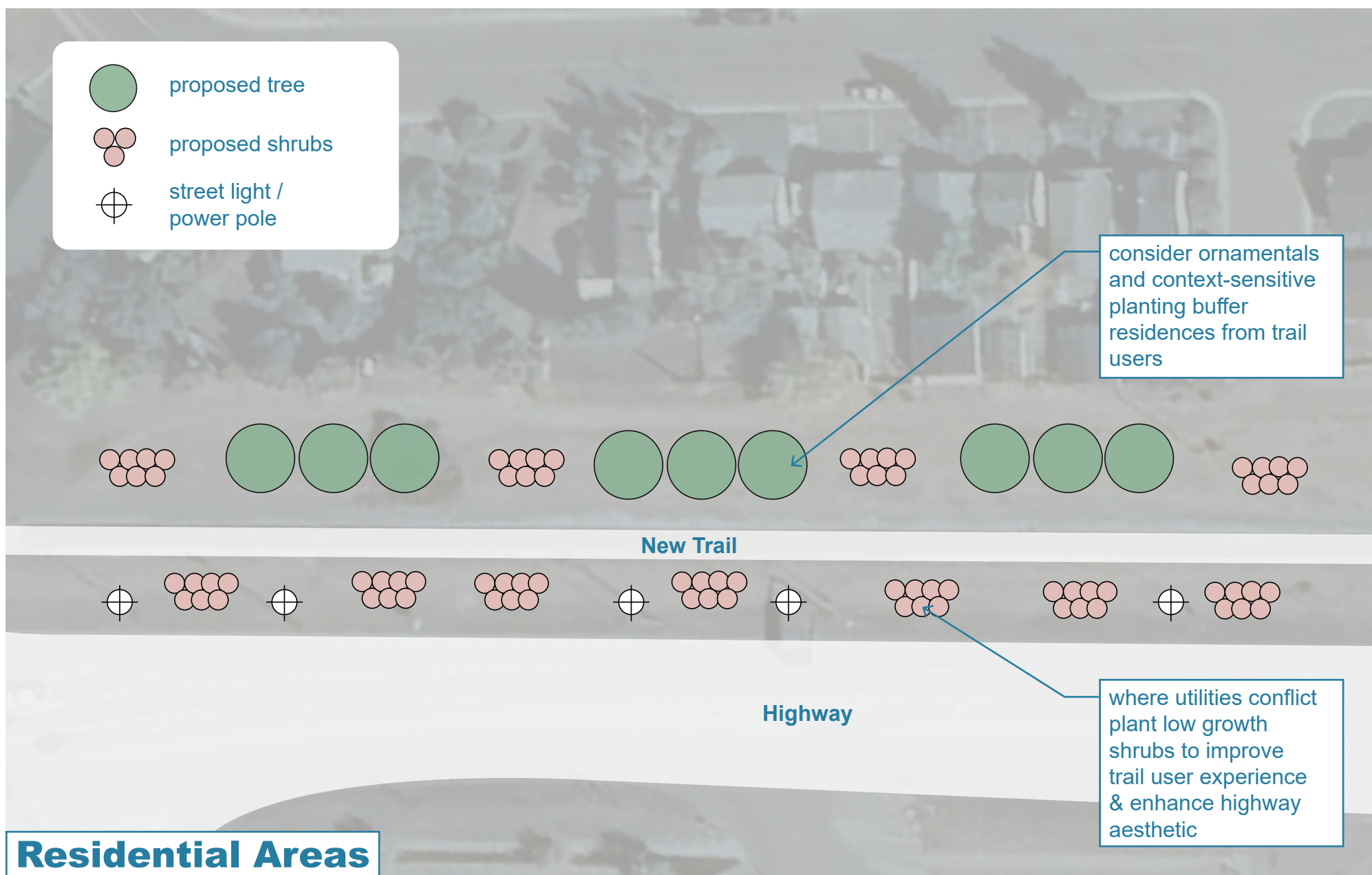
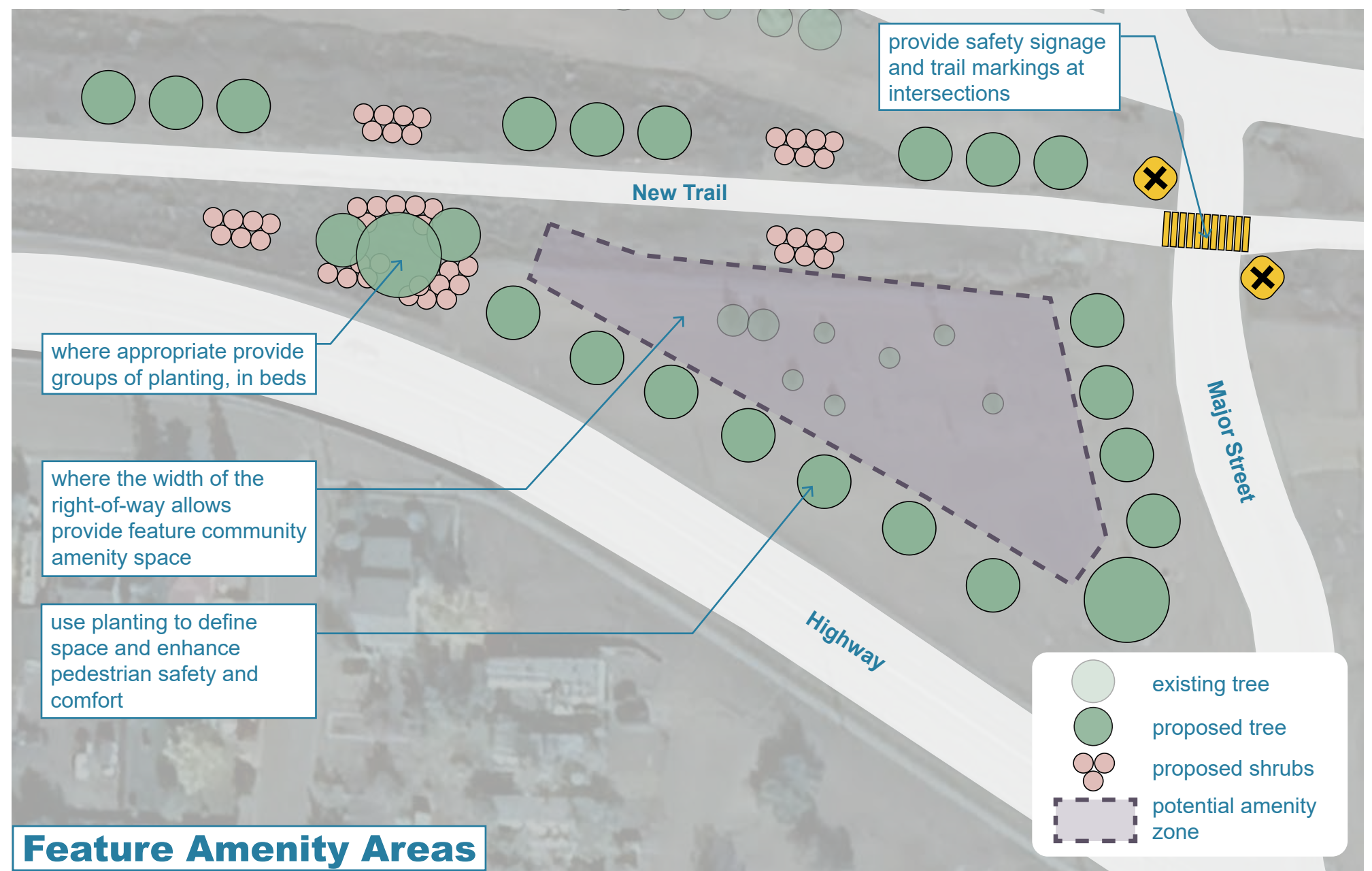
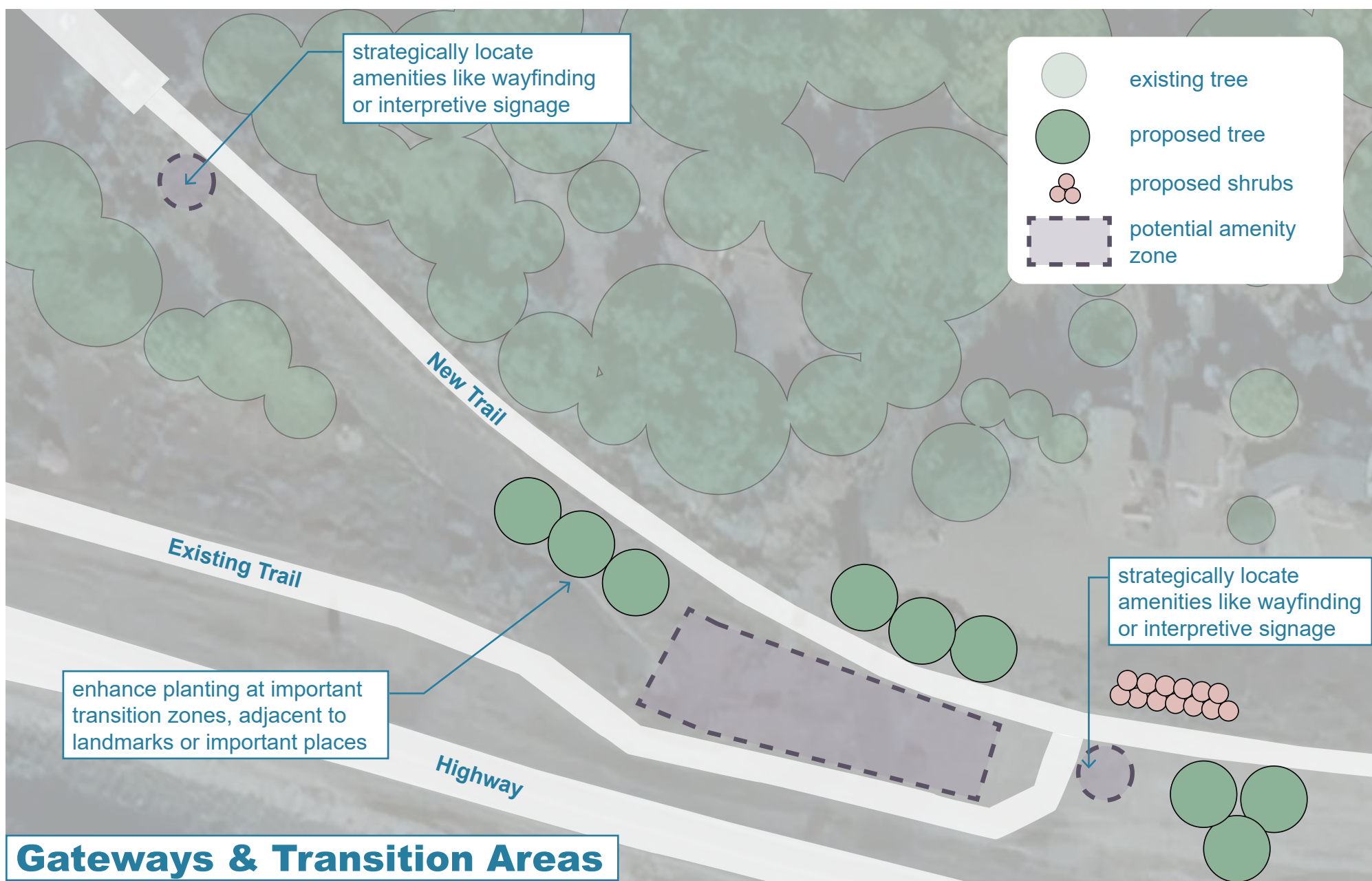
# **Guiding Principles for Berm Revegetation**





## Drumheller Rail Trail Preliminary Strategy





## Drumheller Rail Trail Preliminary Strategy



# **COMMENTS & SUGGESTIONS WELCOME!**

**Downtown Berm | Hospital Extension Berm | Michichi Creek Berm | East Coulee Berm**