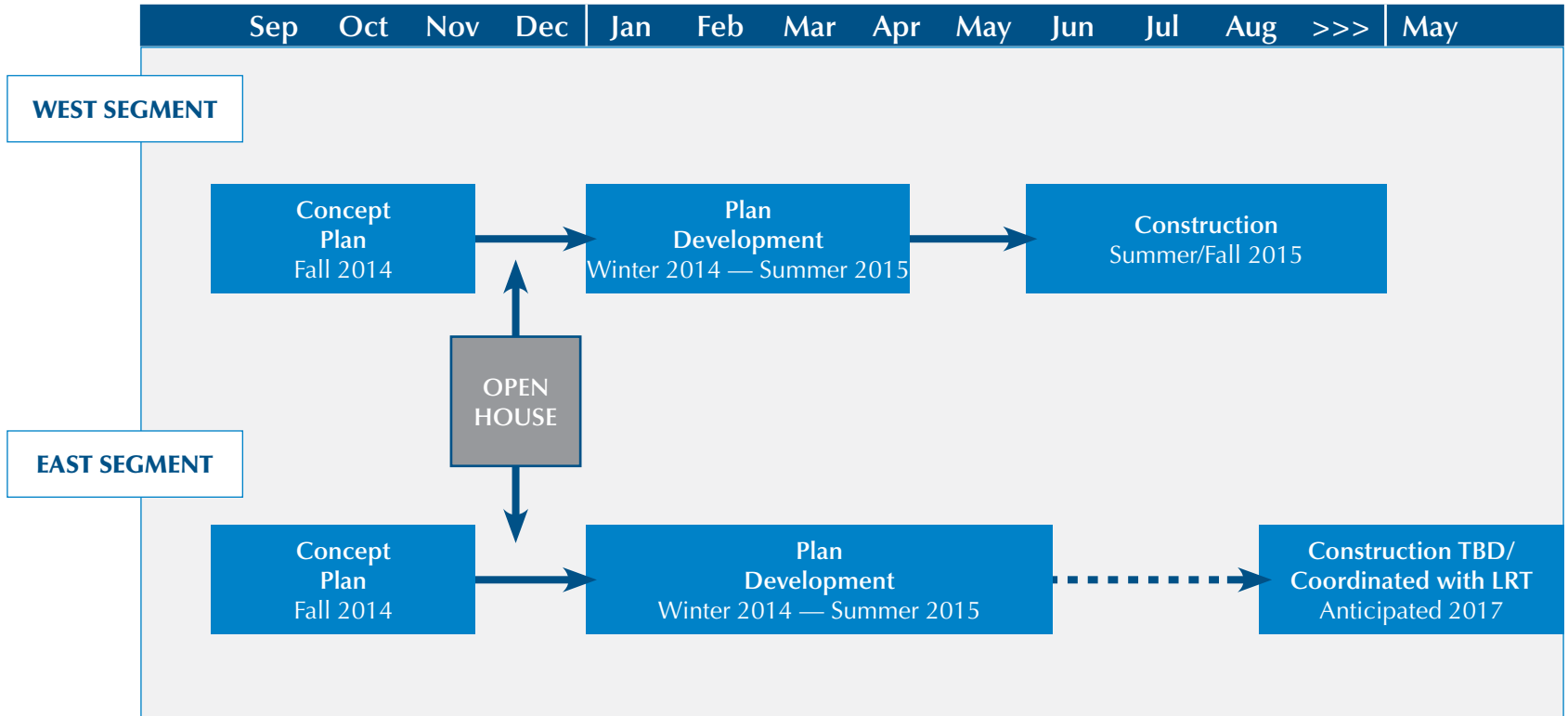


W E L C O M E

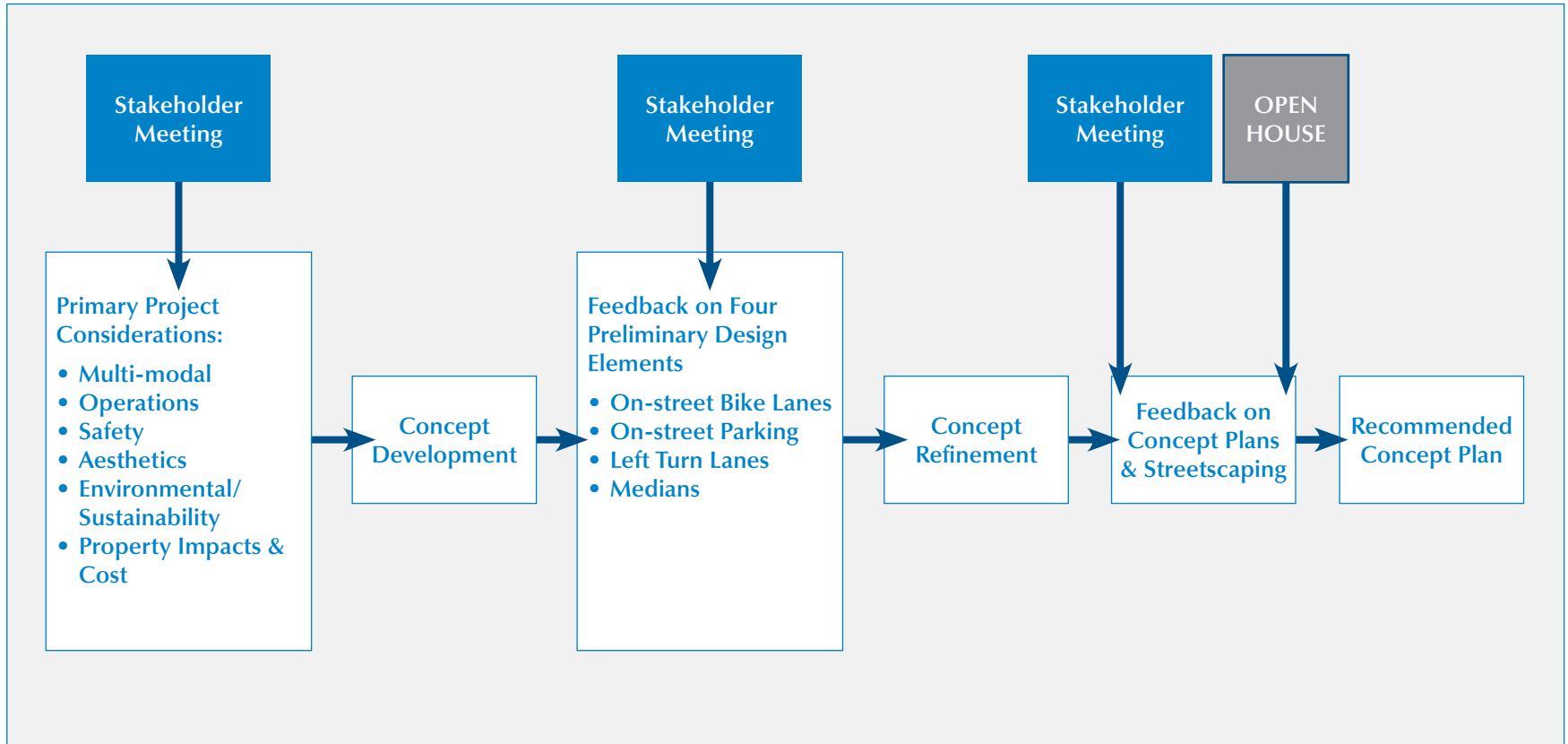
City of Eden Prairie
West 70th Street



Project Schedule



Conceptual Plan Process



On-Street Bike Lanes

- Separates pedestrians and bikes in heavy usage area near LRT station
- Utilizes the additional pavement width needed for large vehicles
- Provides enhanced commuter bike facilities

Recommend providing
on-street bike lanes



On-Street Parking

- Existing land uses do not need or utilize on-street parking
- Design will consider the potential for future on-street parking with redevelopment
- Increases the overall footprint (size) of the roadway

Not recommending providing on-street parking



Left Turn Lanes

- A two-lane roadway provides acceptable operations
- Forecasted traffic volumes are not high enough to warrant left turn lanes (5,000 - 7,000 vehicles per day)
- Left turns will be provided at Flying Cloud Drive and Shady Oak Road for improved intersection operations
- Increases the overall footprint (size) of the roadway

Not recommending left turn lanes along the corridor

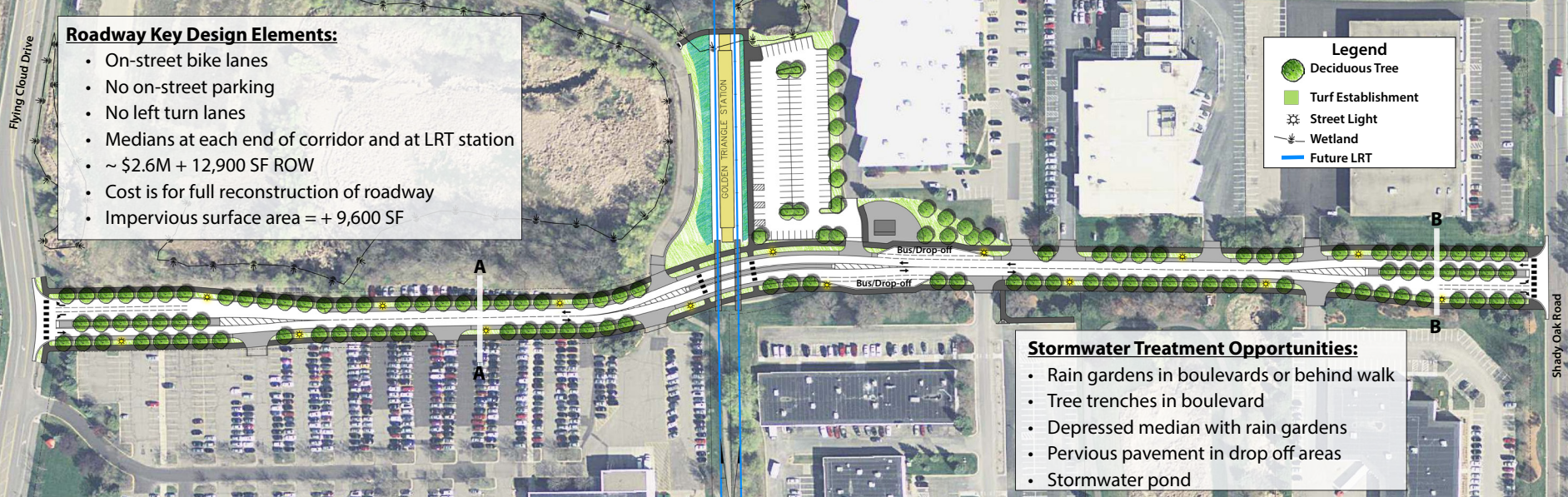


Median

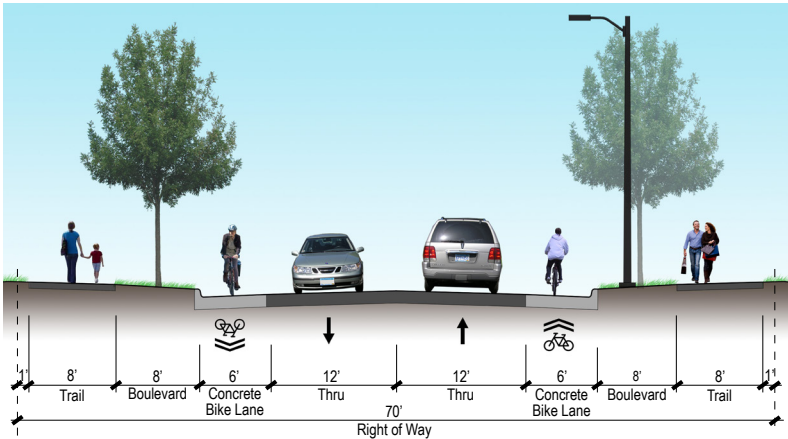
- Provides gateway and aesthetic enhancement
- Allows pedestrian refuge
- Can be designed to accommodate turning movements for large vehicles
- Increases overall footprint (size) of the roadways
- To minimize the overall footprint, could be placed at key locations

Considering medians at each end and at the LRT station, not along the entire corridor

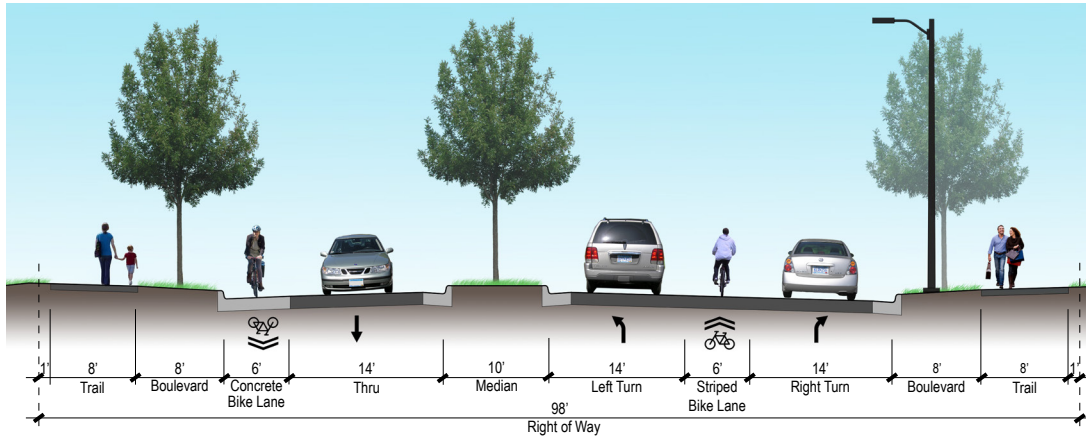




Alternative 1 Layout Plan



Alternative 1 Cross Section A



Alternative 1 Cross Section B

Alternative 1 – Two Lane Roadway with Concrete Bike Lanes, Trails and Medians

Roadway Key Design Elements:

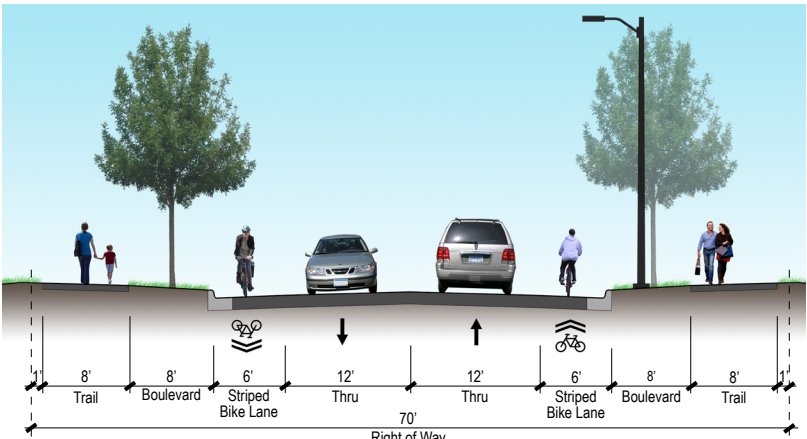
- On-street bike lanes
- No on-street parking
- No left turn lanes
- No medians
- Smallest footprint
- ~ \$2.3M + 5,600 SF ROW
- Cost is for full reconstruction of roadway
- Impervious surface area = + 8,200 SF

Legend

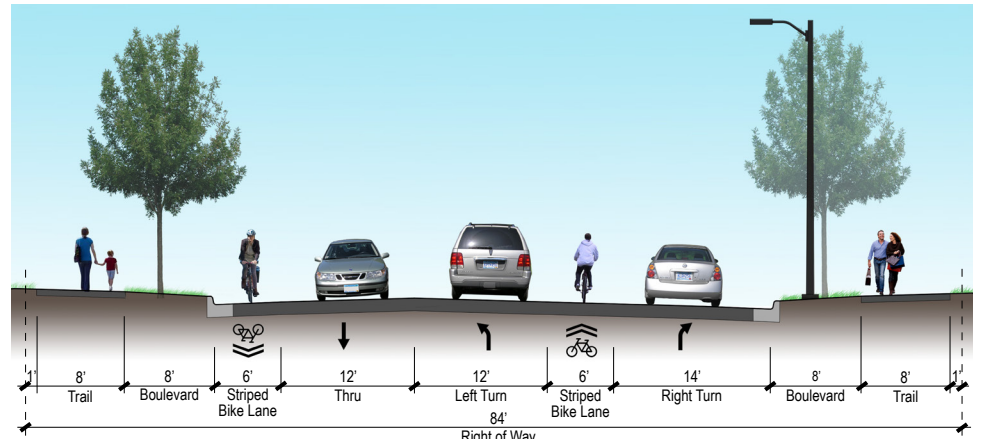
- Deciduous Tree
- Turf Establishment
- ☼ Street Light
- ☁ Wetland
- Future LRT

- Stormwater Treatment Opportunities:**
- Rain gardens in boulevards or behind walk
 - Tree trenches in boulevard
 - Pervious pavement in drop off areas
 - Stormwater pond

Alternative 2 Layout Plan

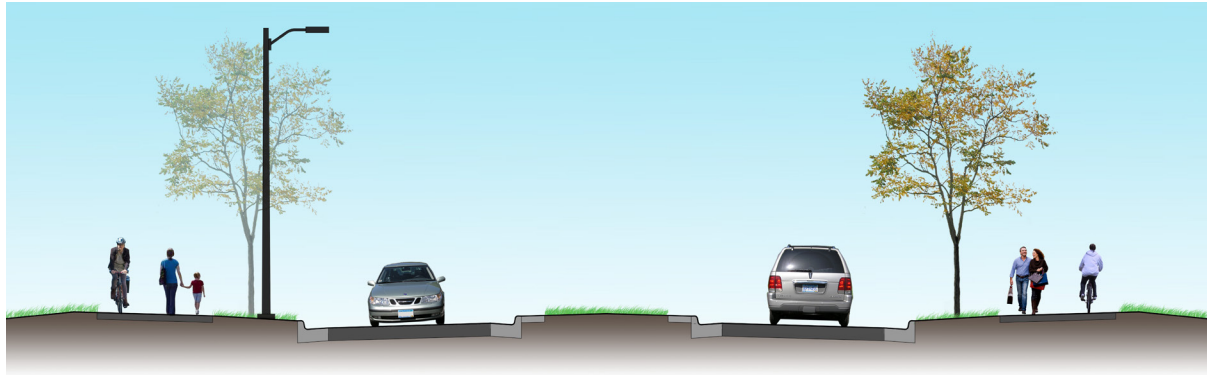


Alternative 2 Cross Section A



Alternative 2 Cross Section B

Alternative 2 – Two Lane Roadway with Striped Bike Lanes and Trails



Base Streetscape Design Elements:

- Turf Grass Boulevards and medians
- Roadway height street lights
- Standard gray concrete
- Basic bench and bike rack



Roadway light (30' height)



Deciduous Trees in Boulevards



Tree box for stormwater treatment in boulevard



Basic Bench

Base Level Streetscape



Moderate Streetscape Design Elements:

- Deciduous trees in boulevards and medians
- Low maintenance plantings in medians
- Ornamental height street lights
- Colored concrete accents in median
- Bollards at median noses
- Simple railing or plantings at parking lot edges



Ornamental light (15' - 20' height)



Bollards at median noses



Tree trench with plantings in boulevard



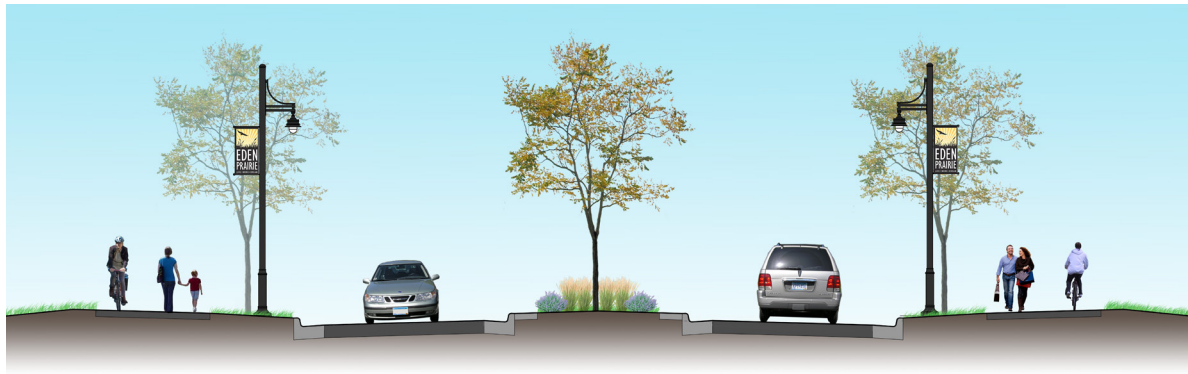
Metal bench and simple plantings



Trees and low maintenance plantings in medians

Moderate Level Streetscape





High Level Streetscape Design Elements:

- Deciduous trees in boulevards and medians
- Ornamental plantings in medians
- Ornamental/Ped height street lights w/ banners
- Enhanced paving such as pavers or colored and textured concrete
- Bollards at median noses
- Banner poles at ends and middle of medians
- Gateway treatments at intersections



Ornamental Light (15'-20' height) with Banners



Rain garden in boulevard



Pedestrian seating plaza with ornamental fence



Decorative concrete and ornamental plantings in median















Ornamental plantings in boulevard and medians



Banner poles and bollards in medians

High Level Streetscape



DESIGN ELEMENT	LEVEL 1 (BASE)	LEVEL 2 (MODERATE)	LEVEL 3 (HIGH)
<p>PAVING</p> <ul style="list-style-type: none"> • Standard gray concrete • Colored concrete • Concrete Pavers • Stamped or textured concrete 			
<p>PLANTING</p> <ul style="list-style-type: none"> • Turf grass • Deciduous trees • Low maintenance plantings • Higher maintenance ornamental plantings 			
<p>LIGHTING</p> <ul style="list-style-type: none"> • Roadway level lights • Ornamental level lights • Pedestrian level lights • Banners, flower baskets 			
<p>FENCING AND FURNISHINGS</p> <ul style="list-style-type: none"> • Bench • Bike Rack • Banner poles • Bollards • Ornamental fencing • Gateway treatment 			
<p>APPROXIMATE COST</p>	<p>5% - 10% of Base Road Cost</p>	<p>15% - 25% of Base Road Cost</p>	<p>30% - 50% of Base Road Cost</p>

Comparison of Streetscape Treatments



Rain garden and screening along parking lot



Tree trench with ornamental plantings in boulevard



Capitol Region Watershed District / www.capitolregionwd.org / RAIN GARDEN



Tree trench with curb inlet in boulevard



Tree trench in paved boulevard



Tree trench in paved boulevard



Infiltration swale along parking lot



Depressed median with infiltration and plantings

Note: Effectiveness and constructibility of various storm water treatment BMP's depends on factors to be determined, including site conditions and final engineering design.

Stormwater Treatment Opportunities