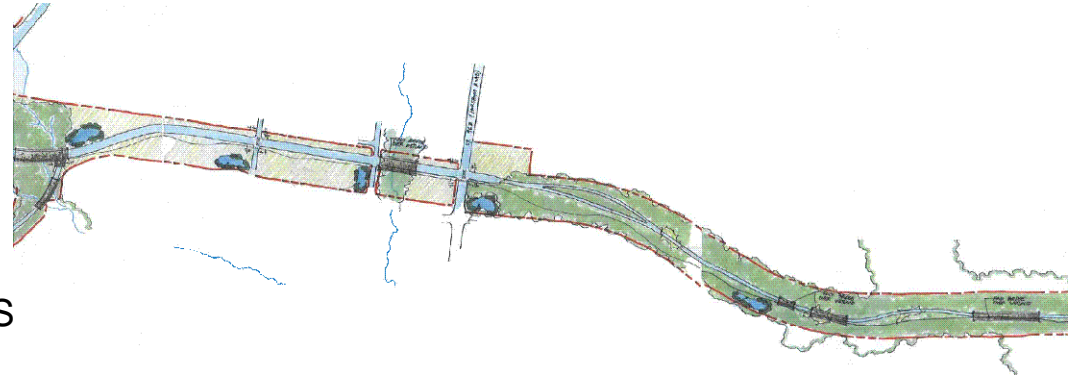


# Landscape Planting



## PENNDOT PLANTING DESIGN GUIDELINES

### ☐ SAFETY

- PLANT TREES OUTSIDE OF THE CLEAR RECOVERY ZONE
- RESTRICT PLANT SIZE IN CLEAR ZONE TO 4 CALIPER INCHES MAX
- IN CLEAR SIGHT TRIANGLES, KEEP PLANTS UNDER 3 FEET HIGH
- AVOID SPECIES THAT WILL INTERFERE WITH ROAD AND TRAIL USERS

### ☐ MAINTENANCE

- USE SALT TOLERANT SPECIES WITHIN SALT-SPRAY ZONES
- GROUP PLANTS IN CURVED AREAS TO FACILITATE MOWING
- SPECIFY NATIVE GRASSES IN SELECT AREAS AND LOW MAINTENANCE SPECIES THROUGHOUT
- GRASS MOWED 8 TIMES A YEAR, NATIVE GRASSES 2 TIMES

## TYPICAL PARKWAY LANDSCAPE AREAS

- ☐ BERMS
- ☐ MEDIANS
- ☐ ROADSIDE
- ☐ DETENTION BASINS
- ☐ BRIDGE EMBANKMENTS
- ☐ INTERSECTIONS
- ☐ WOODLAND EDGE



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# Initial Planting Appearance and Maturation



DAYLILIES AT INSTALLATION AND SEVERAL YEARS LATER SHOW HOW PLANTINGS MATURE AND FILL IN PERENNIAL BEDS



7' Crabapple



8' Austrian Pine



INITIAL PLANTING OF ISLAND BEDS, AND THE FILLING IN SOME YEARS LATER AS PLANTS MATURE



2 1/2" Caliper Maple



Rhododendron



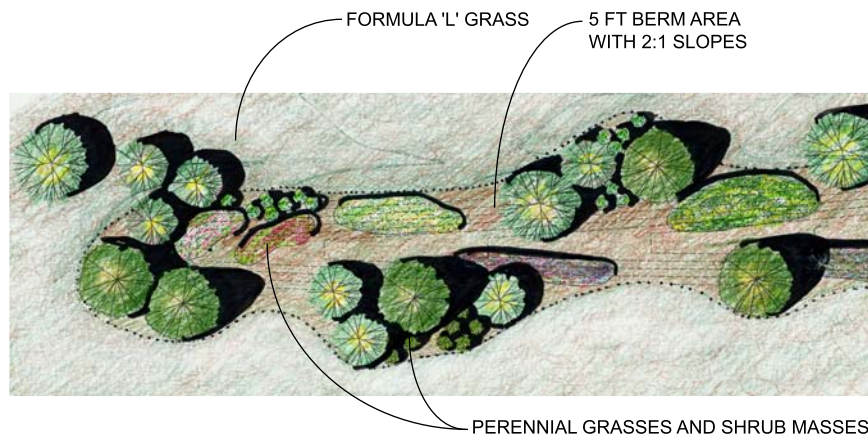
Inkberry



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# Berms 5 foot height



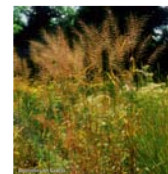
- ❑ 5' - 10' HIGH BERMS FOR STIPULATED LENGTHS IN SPECIFIC AREAS
- ❑ NATURALIZE LANDFORMS & DECREASE SLOPE GRADES WHERE POSSIBLE
- ❑ PLANT BERMS WITH SLOPES THAT ARE STEEPER THAN 4:1
- ❑ PLACE PLANTS FOR MAXIMUM EFFECT WITH MORE PLANTS ON THE RESIDENTIAL SIDE



Sumac



Virginia Sweetspire



Dry Tolerant Grasses



Formula 'L' Grass Area



Catalpa



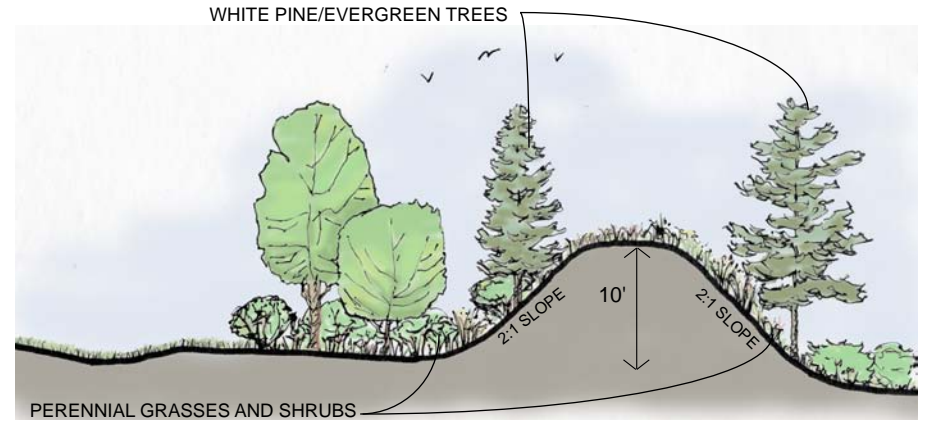
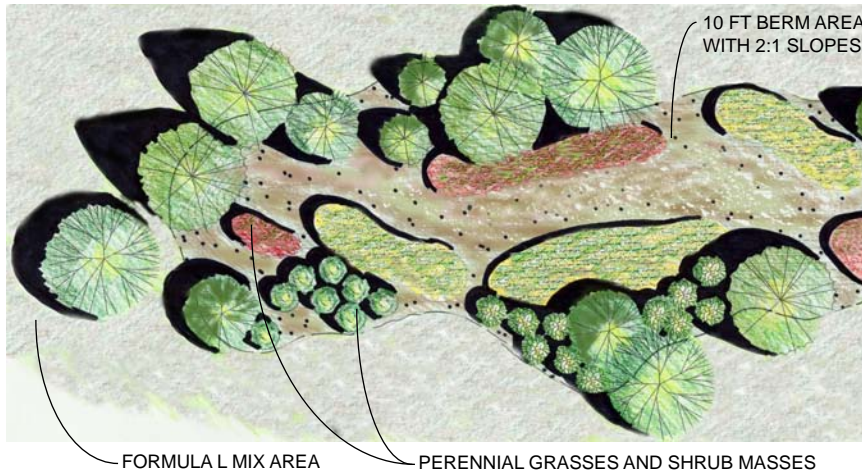
Spruce



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# Berms 10 foot height



- ❑ EMPLOY PLANTINGS TO SOFTEN TRANSITION FROM ADJACENT GRADES TO BERM
- ❑ USE DRY TOLERANT SPECIES WITH A VARIETY OF DECIDUOUS & EVERGREEN PLANTS
- ❑ SPECIFY LOW-MAINTENANCE FORMULA "L" AND NATIVE GRASSES



Maiden Grass



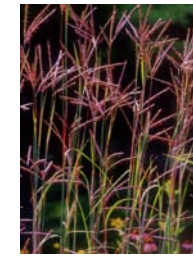
Hawthorn



Viburnum



Sumac



Big Bluestem



Eastern Redcedar



Red Maple

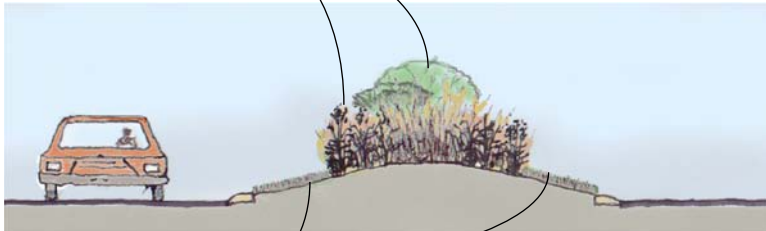


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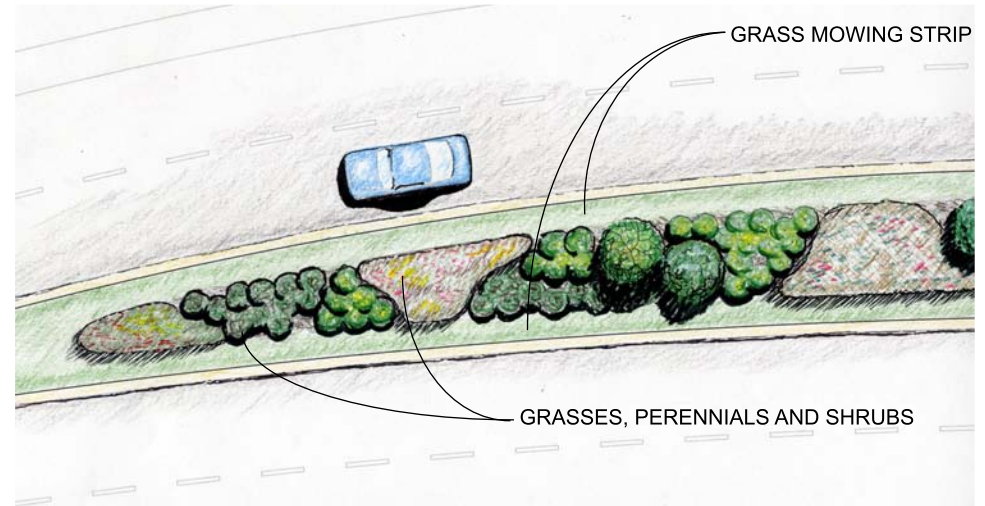


# Median

PERENNIAL GRASSES AND SHRUBS



GRASS MOWING STRIP



GRASS MOWING STRIP

GRASSES, PERENNIALS AND SHRUBS

- ❑ MOUNTABLE CURBS & THE CLEAR ZONE RESTRICTIONS PROHIBIT TREES
- ❑ SITE-SPECIFIC ROADWAY CONDITIONS MAY LIMIT PLANTINGS TO UNDER 3- FEET HIGH
- ❑ PROVIDE A 4 FOOT WIDE MOWING STRIP & FORMULA "D" GRASS
- ❑ PLANT WARM SEASON GRASSES & PERENNIALS
- ❑ ADD SHRUBS UNDER 4 INCHES IN CALIPER AT MATURITY WHERE POSSIBLE
- ❑ SPECIFY SALT-TOLERANT, LOW-MAINTENANCE SPECIES WITH MULTI-SEASONAL INTEREST



Grasses and Perennials



Red Chokeberry



Gray Dogwood



Beebalm



Other Decorative and Native Grasses

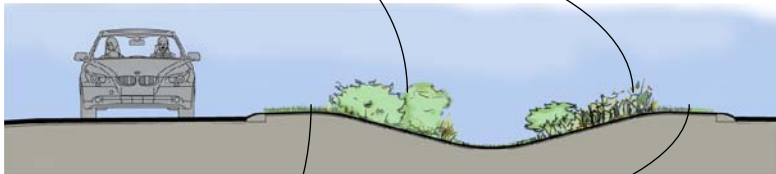


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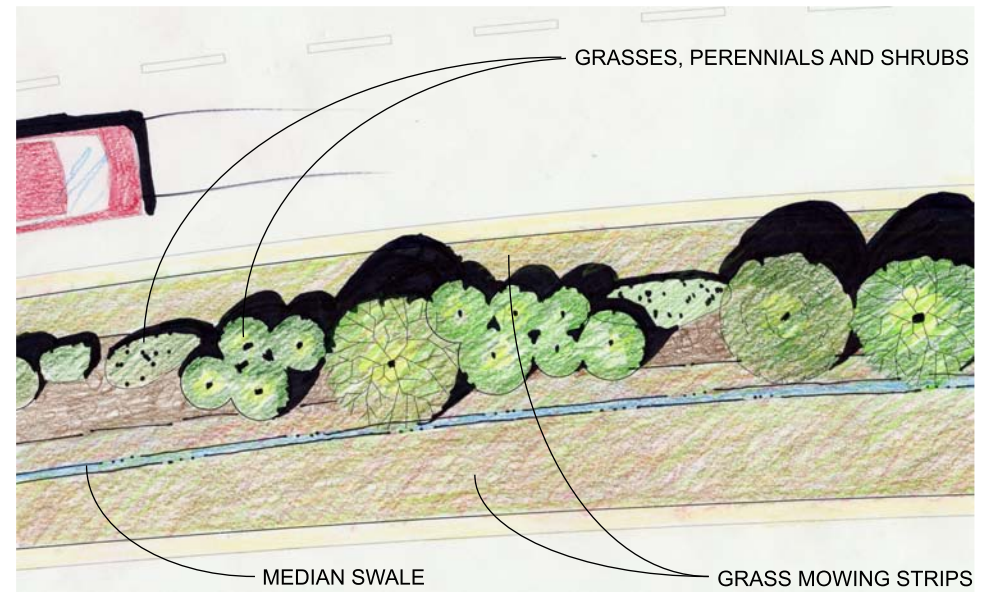


# Median

PERENNIAL GRASSES AND SHRUBS



GRASS MOWING STRIP



GRASSES, PERENNIALS AND SHRUBS

MEDIAN SWALE

GRASS MOWING STRIPS

- ❑ MOUNTABLE CURBS & THE CLEAR ZONE RESTRICTIONS PROHIBIT TREES
- ❑ SITE-SPECIFIC ROADWAY CONDITIONS MAY LIMIT PLANTINGS TO UNDER 3-FEET HIGH
- ❑ PROVIDE A 4 FT MOWING STRIP & FORMULA "D" GRASS
- ❑ PLANT WARM SEASON GRASSES & PERENNIALS
- ❑ ADD SHRUBS UNDER 4 INCHES IN CALIPER AT MATURITY WHERE POSSIBLE
- ❑ SPECIFY SALT-TOLERANT, LOW-MAINTENANCE SPECIES WITH MULTI-SEASONAL INTEREST



Gray Dogwood



Potential Plant Grouping



Other Decorative Native Grasses



Grasses and Perennials



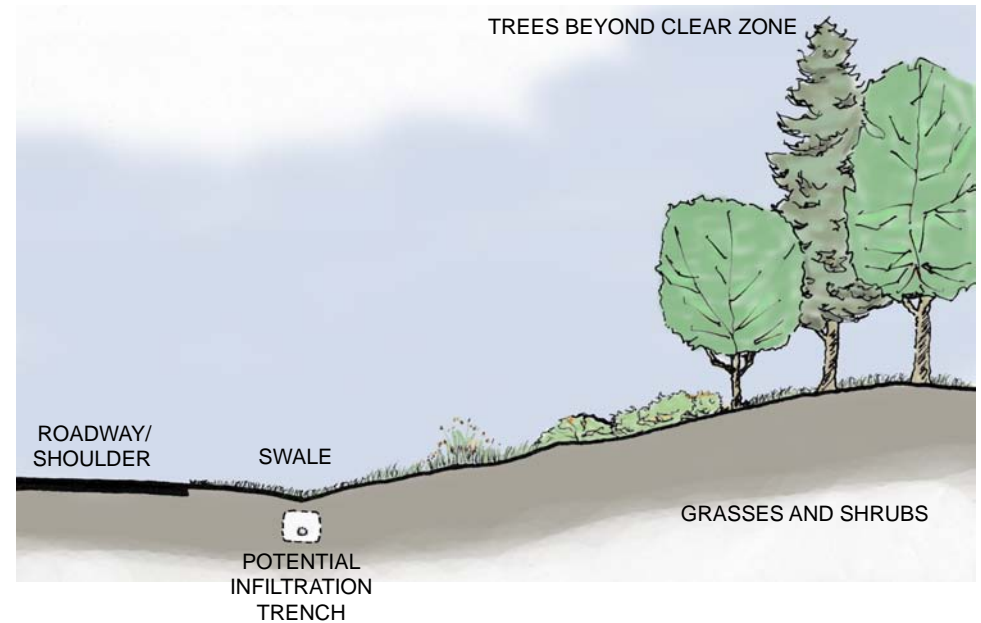
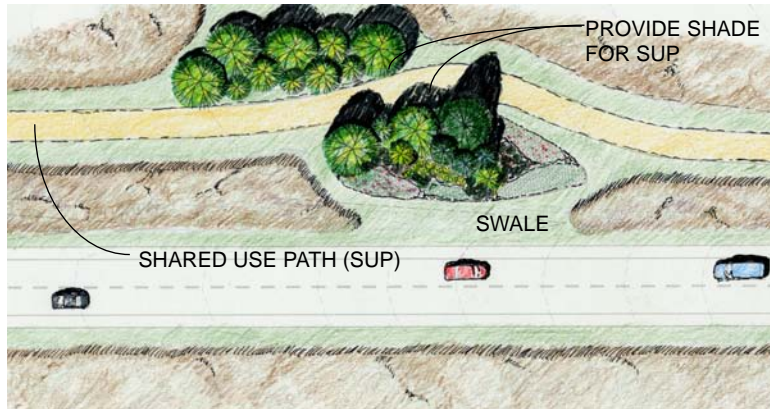
Red Chokeberry



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# Roadside



- ❑ GROUP MIXTURES OF GRASSES, DECIDUOUS & EVERGREEN PLANTS
- ❑ INSTALL GRASSED INFILTRATION SWALES ADJACENT TO ROADWAY
- ❑ LOCATE TREES OUTSIDE THE CLEAR ZONE, OTHER PLANTS & MULCH OUTSIDE THE SWALE
- ❑ PLANT DESIGN TREE MASSES NEAR THE SUP FOR SHADE AND TO VARY USER EXPERIENCE
- ❑ UNDERPLANTING WITH NATIVE GRASSES TO BE SELF-PERPETUATING



Winterberry



Deutzia



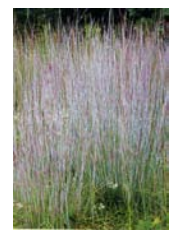
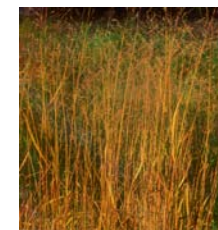
Spruce



Hedge Maple



Fringetree



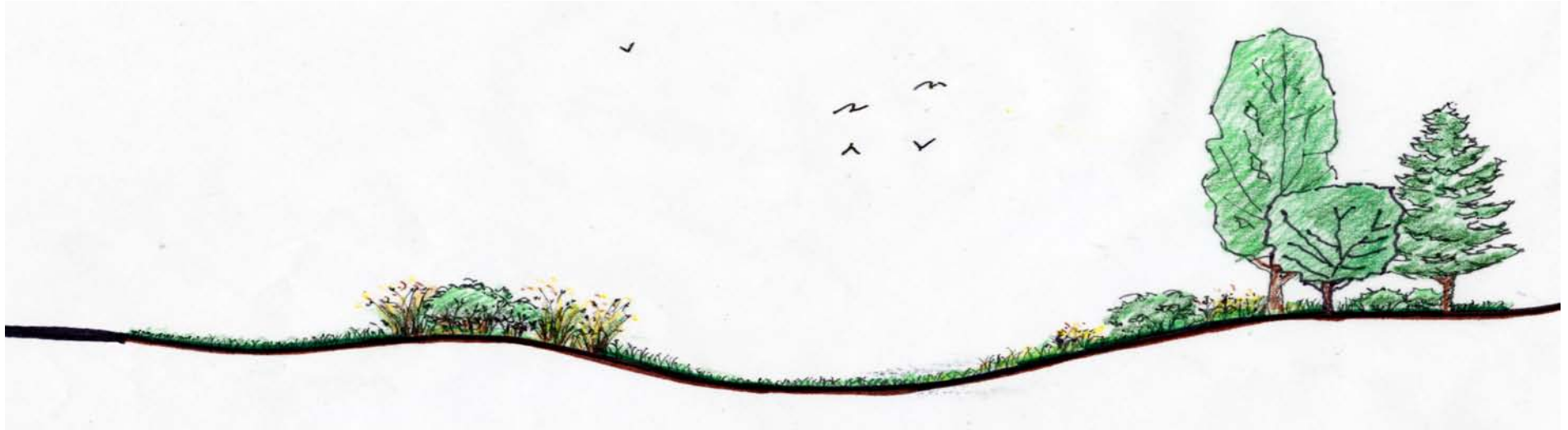
Native Grasses



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# Detention Basins



- ❑ OTHER THAN STORM EVENTS, BASINS WILL BE DRY
- ❑ SOFTEN BASIN GRADING WITH NATURALISTIC PLANTING
- ❑ AVOID PLANTS THAT CAN BE AGGRESSIVE, CAUSING DOWNSTREAM ISSUES
- ❑ UTILIZE GRASS FORMULA "W" AND OTHER NATIVE GRASSES
- ❑ AUGMENT STORMWATER MANAGEMENT WITH PLANTED BIORETENTION BEDS POSSIBLE



Rushes and Sedges



Buttonbush



Redtop



Viburnum



Joe Pye Weed



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# Bridge Embankment

- ❑ PLANT CLUSTERS ON EMBANKMENTS AS PARKWAY & SUP FOCAL POINTS
- ❑ USE A MIXTURE OF EVERGREEN & DECIDUOUS TREES TO FRAME STRUCTURE
- ❑ LOCATE LOW MAINTENANCE GRASSES & PERENNIALS AT LOW SIDE OF PLANTINGS
- ❑ KEEP ALL TREES A MINIMUM OF 5 TO 10 FEET FROM WALL EDGES
- ❑ SPECIFY NATIVE SPECIES TOLERANT OF STEEP, DRY, EXPOSED SLOPES
- ❑ AVOID SALT SPRAY ZONE & SPECIES THAT WOULD OVERHANG GUIDERAIL OR ABUTMENT



Viburnum



Crabapple



Bottlebrush  
Buckeye



Fir



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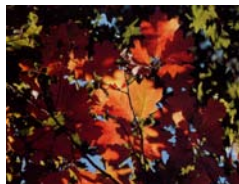


# Intersections

- ❑ STREET TREES AT INTERSECTIONS WITH CURBS CAN BE CLOSER TO THE ROAD EDGE
- ❑ DESIGN FOCAL GROUPINGS FOR NORTH & SOUTH BOUND TRAVELERS
- ❑ PLANT OUTSIDE CLEAR SIGHT TRIANGLES OR USE UNDER 3-FOOT HIGH PLANTINGS AT CORNERS
- ❑ CONTINUE TREE PLANTING ALONG SHARED USE PATH (SUP) FOR SHADE AND INTEREST



White Ash



Red Oak



Hawthorn



Glossy Abelia



Liriope



Redbud



Armstrong Maple



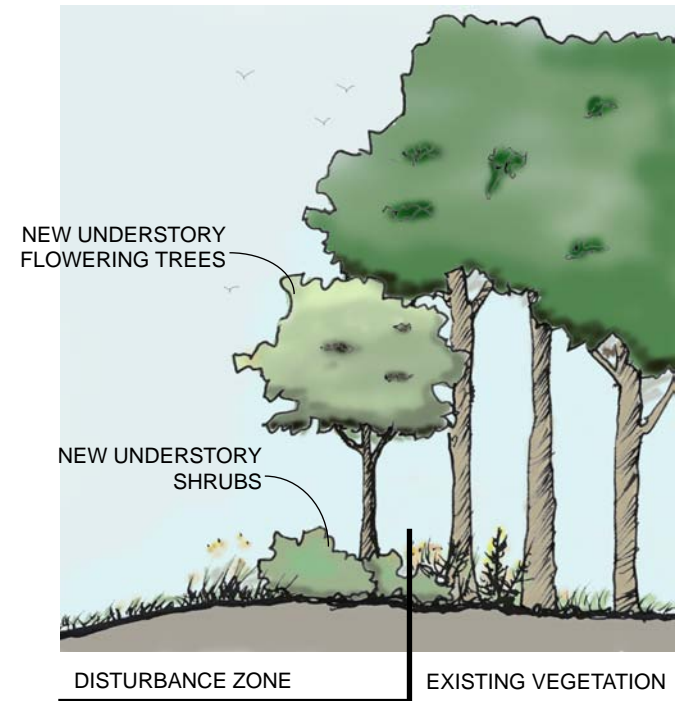
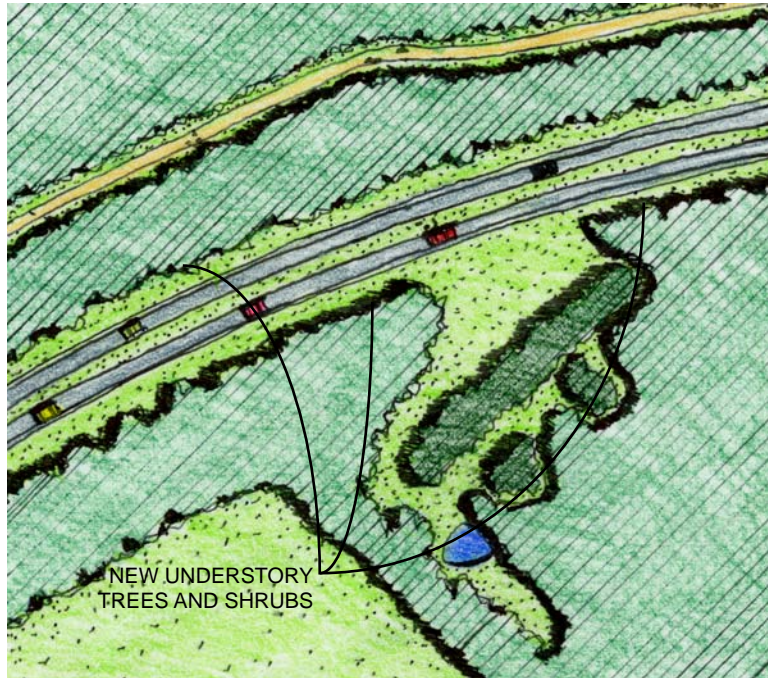
American Holly



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# Woodland Edge



- ❑ REESTABLISH THE WOODLAND EDGE AFTER CONSTRUCTION CLEARING
- ❑ PLANT UNDERSTORY TREES & SHRUBS AT THE EDGES
- ❑ CREATE A NATURAL BUFFER FOR PROTECTION AND HABITAT
- ❑ SUPPLEMENT PLANTING WITH NATIVE GRASSES TO DISCOURAGE INVASIVE SPECIES



Woodland with Understory Ferns and Perennials



Hybrid Dogwood



Deciduous Azalea



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