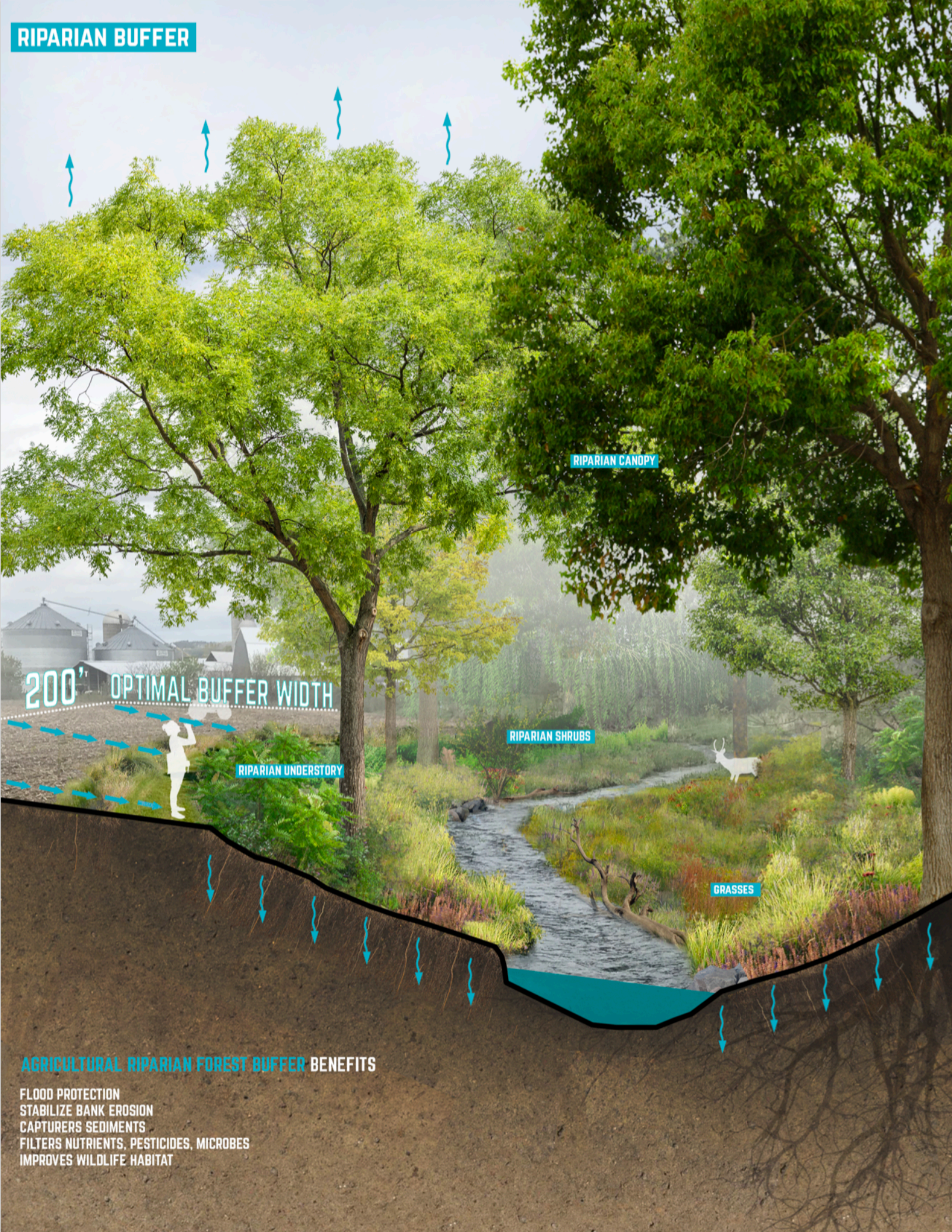


RIPARIAN BUFFER



RIPARIAN CANOPY

200' OPTIMAL BUFFER WIDTH

RIPARIAN SHRUBS

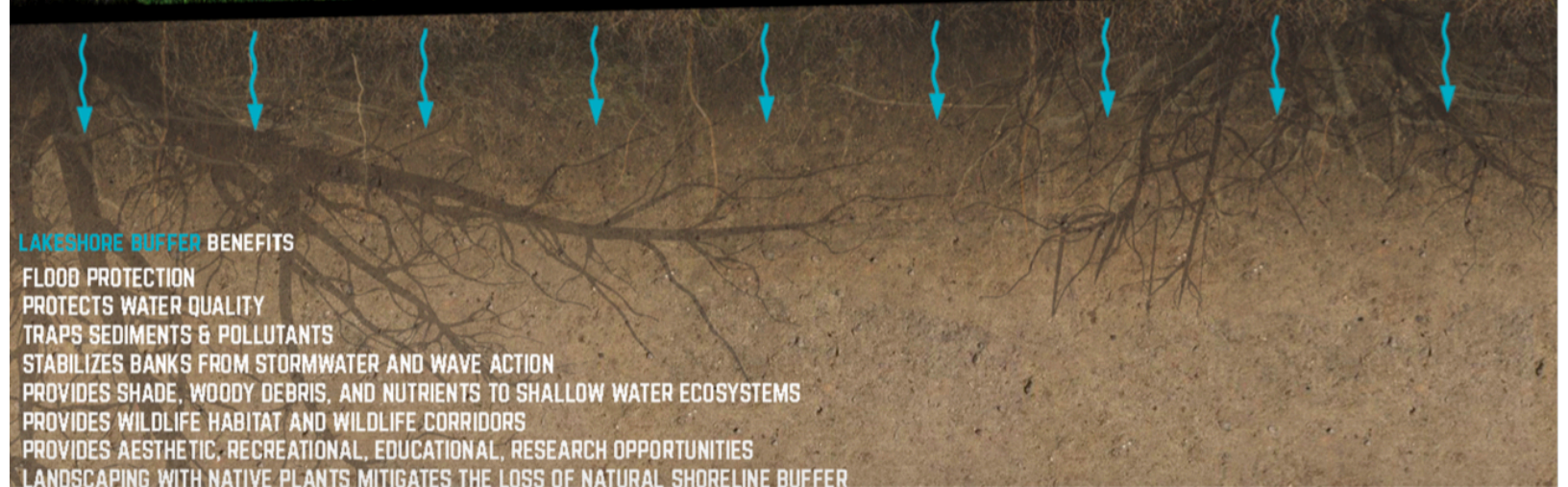
RIPARIAN UNDERSTORY

GRASSES

AGRICULTURAL RIPARIAN FOREST BUFFER BENEFITS

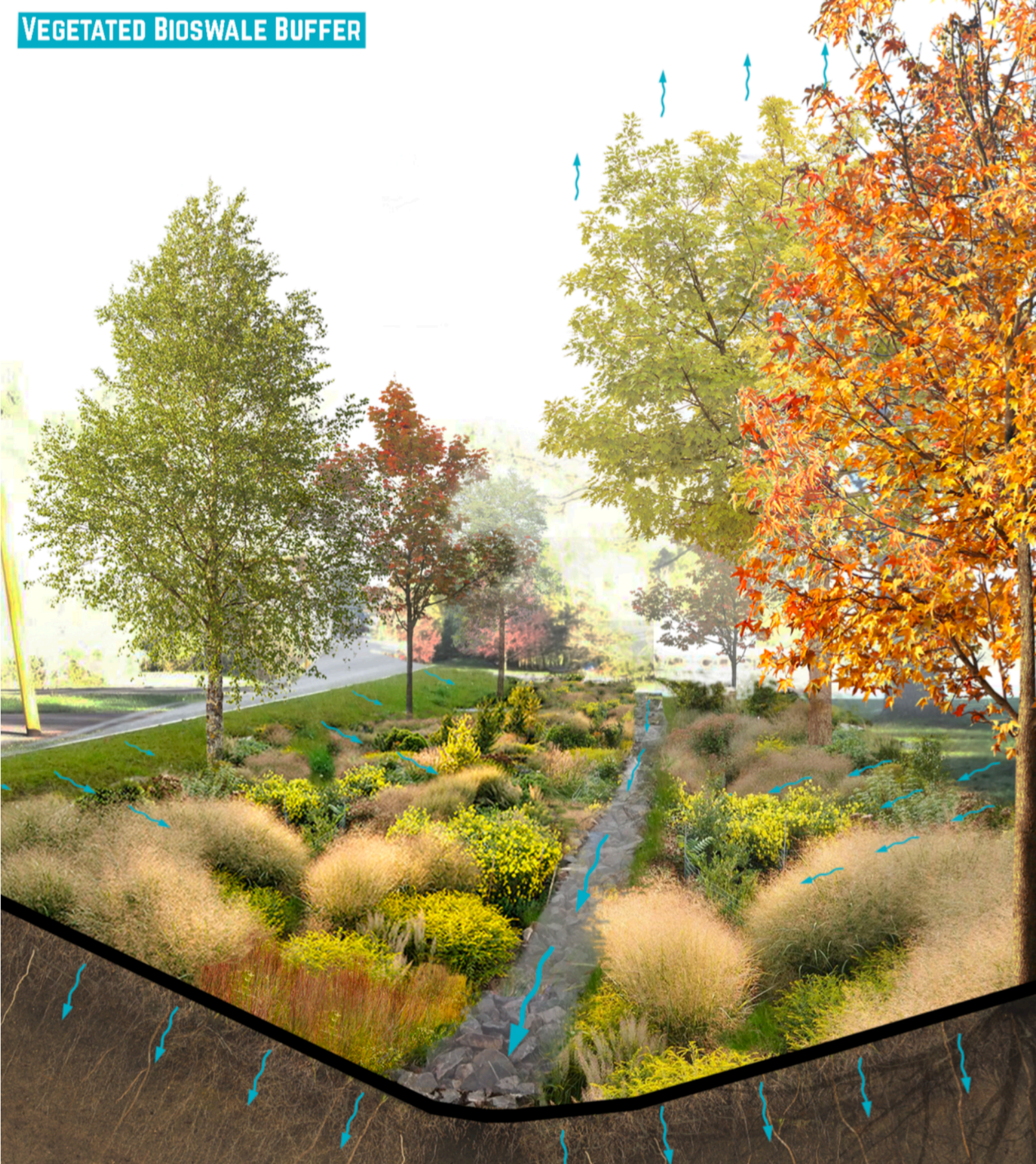
- FLOOD PROTECTION
- STABILIZE BANK EROSION
- CAPTURES SEDIMENTS
- FILTERS NUTRIENTS, PESTICIDES, MICROBES
- IMPROVES WILDLIFE HABITAT

LAKESHORE BUFFER



- LAKESHORE BUFFER BENEFITS**
- FLOOD PROTECTION
 - PROTECTS WATER QUALITY
 - TRAPS SEDIMENTS & POLLUTANTS
 - STABILIZES BANKS FROM STORMWATER AND WAVE ACTION
 - PROVIDES SHADE, WOODY DEBRIS, AND NUTRIENTS TO SHALLOW WATER ECOSYSTEMS
 - PROVIDES WILDLIFE HABITAT AND WILDLIFE CORRIDORS
 - PROVIDES AESTHETIC, RECREATIONAL, EDUCATIONAL, RESEARCH OPPORTUNITIES
 - LANDSCAPING WITH NATIVE PLANTS MITIGATES THE LOSS OF NATURAL SHORELINE BUFFER

VEGETATED BIOSWALE BUFFER



VEGETATED BIOSWALE BENEFITS

- TREAT WATER QUALITY
- REMOVES COARSE AND MEDIUM SEDIMENTS
- MITIGATES STORMWATER RUNOFF
- INCREASE INFILTRATION & GROUNDWATER RECHARGE
- CREATES HABITAT AND INCREASES BIODIVERSITY
- PROVIDES AESTHETIC & ECOLOGICAL VALUE