



# Huron Hills Golf Course

- Team
- Background
- Goals and Objectives
- Layout
- Construction Timeline
- Funding
- Questions and Answers

## **Project Team**

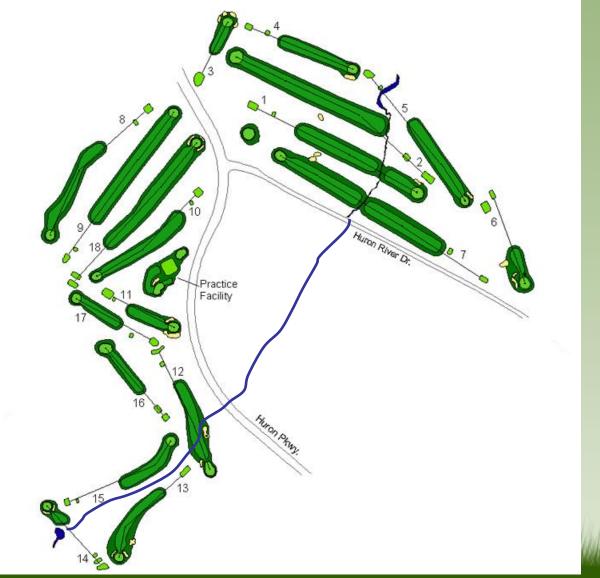
- Colin Smith A2 Parks
- Scott Spooner A2Parks
- Doug Kelly A2Golf
- Andrew Walton A2Golf
- Victor Morales-Rios A2 Golf
- Jennifer Lawson Systems Planning
- Dave Borneman NAP
- Harry Sheehan Washtenaw County
- Lynne Seymour Hubbell, Roth & Clark
- Stephanie Petriello Hubbell, Roth and Clark
- Shannan Gibb-Randall InSite Design Studio

Susan Knoblet – InSite Design Studio

### **Regional Water Quality**

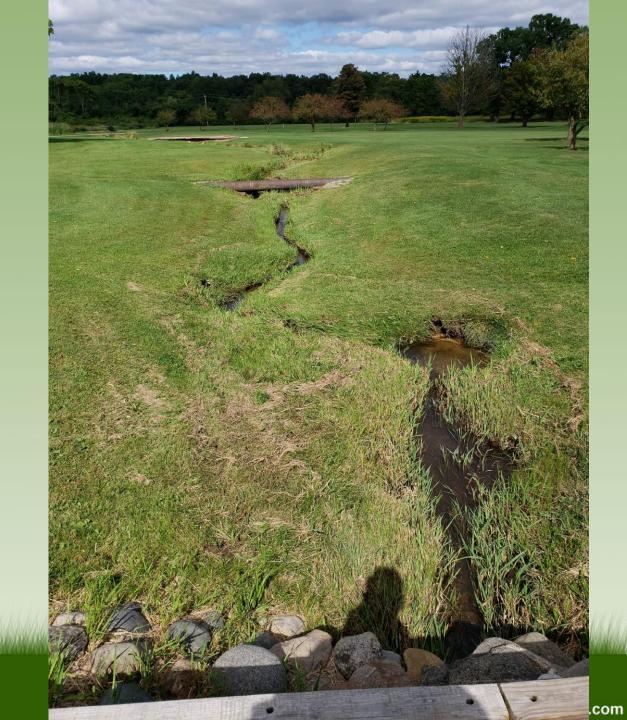


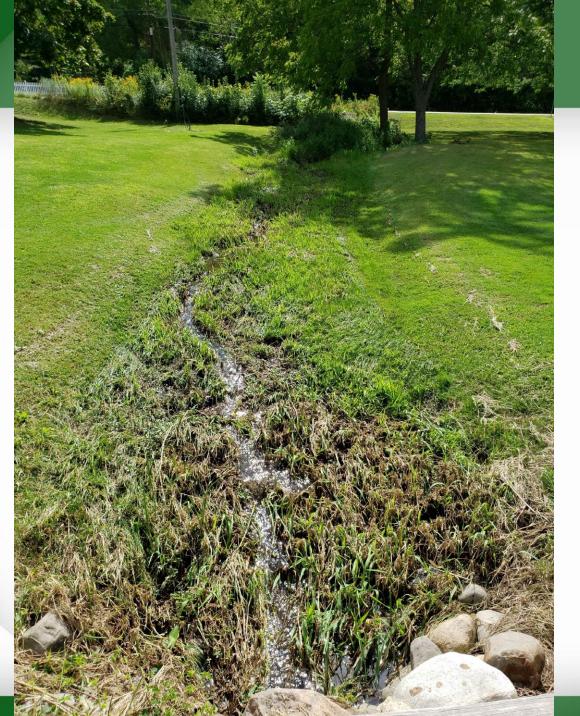
### **Unnamed Creek** Benz Creek



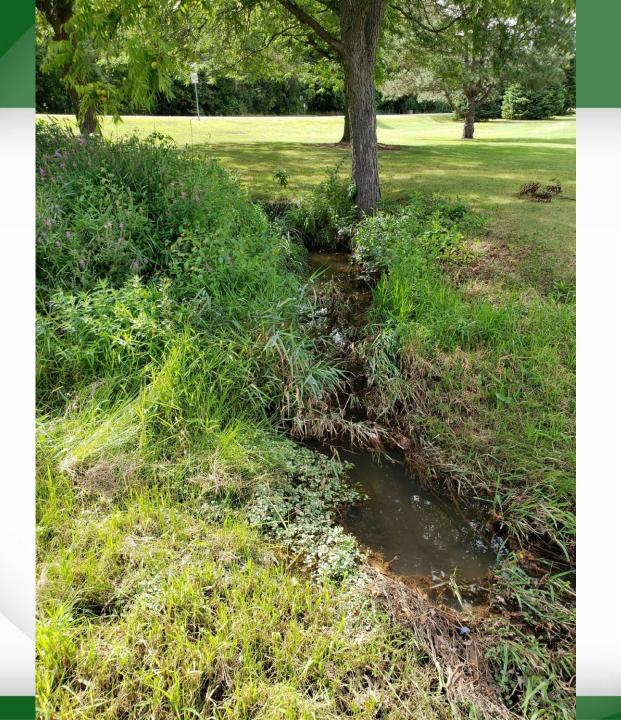
## Existing Conditions

4





## Existing Conditions



## Existing Conditions





### Background – Problem Statement

The stream channel is eroding on the front 7
Existing vegetated buffer is minimal; turfgrass
Loss of channel/wetlands on the back 11
Flooding and saturation are problematic
Limited stormwater detention
Limited water quality treatment

### **Project Goals**

### □ Functional (Stormwater Quantity)

Add detention and slow stuff down

### Ecological (Stormwater Quality)

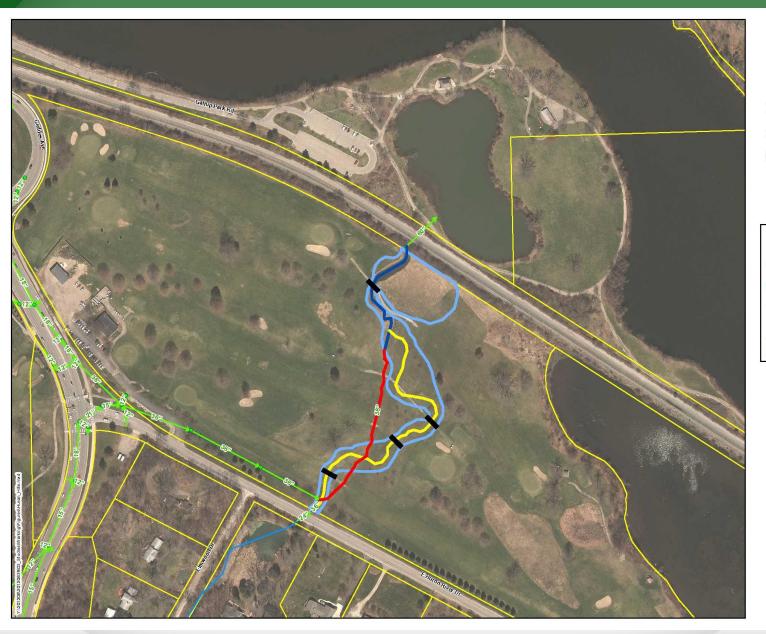
- Sediment Removal
- Phosphorus Reduction
- Habitat Improvement

### Recreational

Design/Facilities Improvements

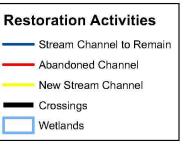
### Leslie Park Golf Course

2018 Google eslie Pa fppt.com 42°18'22.58" N 83°43'40.99" W e



#### FIGURE 15

Proposed Stormwater Improvements Huron Hills Golf Course 2019 SRF Project Plan





1 inch = 250 feet



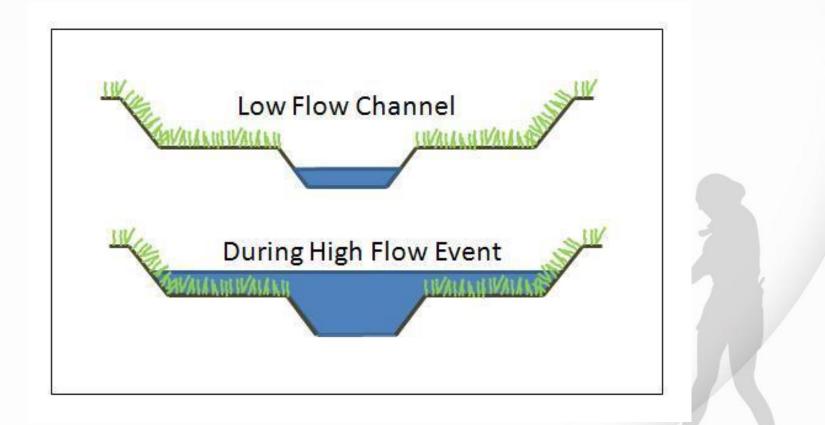


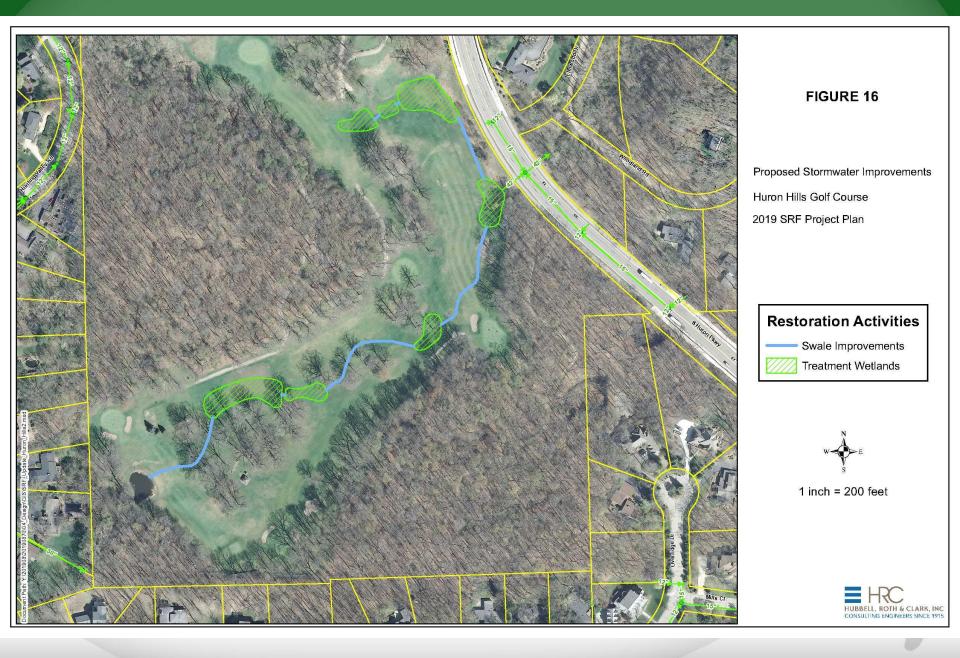
WETLAND SEED MIX: TALL PLANTING	WETLAND SEED MIX: LOW PLANTING	LEGE	LEGEND	
Big Blue-stem Swamp milkweed	Sweet Flag Calico Aster		Existing Contour	
New England Aster Fringed Brome	Marsh marigold Riverbank Sedge		Existing Fairway / Green	
Bebb's Oval Sedge Porcupine Sedge Prairie Star Sedge	Palm Sedge Rattlesnake-Master Bottle Gentian	100	Existing Tee	
Common Lake Sedge Lance-Fruited Oval Sedge Common Fox Sedge	Virginia Waterleaf Blue flag iris Cardinal Lobelia	•	Existing Tree	
Common Tussock Sedge Fox Sedge Blunt Soike-Rush	Great blue lobelia Morikey flower Obedient Plant		Existing Pond	
Creeping Spike-Rush Rattlesnake-Master	Pickerel Weed Rosa Palustris		Existing Stream Channel	
Boneset Joe-Pye Weed Soft-Stemmed Rush	Black-eyed Susan Riddell's goldenrod		Existing Stream Channel to b Re-Aligned	
Switch Grass Obedient Plant Yellow Coneflower			Proposed Contour	
Wool-Grass Prairie Dock		•	Proposed Tree	
Cordgrass Ironweed Culver's root		×	Proposed Tree Removal	
Curren's root			Underground Drainage Pipe	
WETLAND PLANTS: LOW	STREAM EDGE PLANTS: LOW		Proposed Cart/ Pedestrian Crossing	
Sweet Flag Swamp Milkweed Calico Aster	Canada Anemone Calico Aster Mersh maricold		Proposed Stream Channel with Low Planting at Edges	
Blue Flag Iris Cardinal Lobelia Great Blue lobelia	Bebt/s Oval Sedge Patm Sedge Lance-Fruited Oval Sedge		Proposed Wetland with Tall Planting	
Obedient Plant Swamp Rose Black-eyed Susan Riddell's goldenrod	Fox Sedge Rottlesnake-Master Blue flag ints Path Rush		Proposed Wetland with Low Planting	
	Cardinal lobelia Great blue lobelia Sensitive Fern		Proposed Re-Grading and Golf Course Restoration Area	
	Common Cinquefoil Black-eyed Susan		Proposed Shrub Planting	

#### HURON HILLS GOLF COURSE STORMWATER IMPROVEMENTS

Front 7









### Schedule

- October 1, 2019 Public Kickoff Meeting
- October 11 Award design
- January 2020 Preliminary design
- April 2020 Final Design
- May 2020 Bid
- September 2020 Begin Construction
- Spring 2021 Complete Construction and Restoration



- State Revolving Fund
  - Bonded as a County Drain Project
  - 20 Year Loan
  - 2% Interest with loan forgiveness



### Maintenance

- Years 1-5, EGLE Permit
  - County contract with stormwater utility.
- Years 6+
  - Collaborative City/County agreement



# Questions

# **Huron Hills Creek**



