



# KINGSTON REGIONAL STORMWATER TREATMENT FACILITY

Kingston Community Advisory Council Update

February 09, 2022

*Kitsap County Public Works - Stormwater Division*



# TEAM

**Shawn Alire – KCPW Stormwater Asset Manager**

**Tim Beachy, P.E. – KCPW Capital Project Manager**

**Phil Struck – consultant team Project Manager**





# PRESENTATION OVERVIEW

- ▶ Project Purpose and History
- ▶ Regional Plan and Service Area
- ▶ Design and Construction
- ▶ Connection Process and Costs
- ▶ Questions



# PROJECT PURPOSE AND HISTORY

## PURPOSE:

- ▶ Improve water quality
- ▶ Address stormwater treatment system deficiencies

## HISTORY:

- ▶ Regional Plan completed in 2019
- ▶ State grant obtained 2021

## WHY A REGIONAL FACILITY?

- ▶ Serve larger basin not just one property or site
- ▶ Economies of scale: less costly to design, build and maintain
- ▶ Effectiveness - typically perform better over time



# REGIONAL PLAN FRAMEWORK

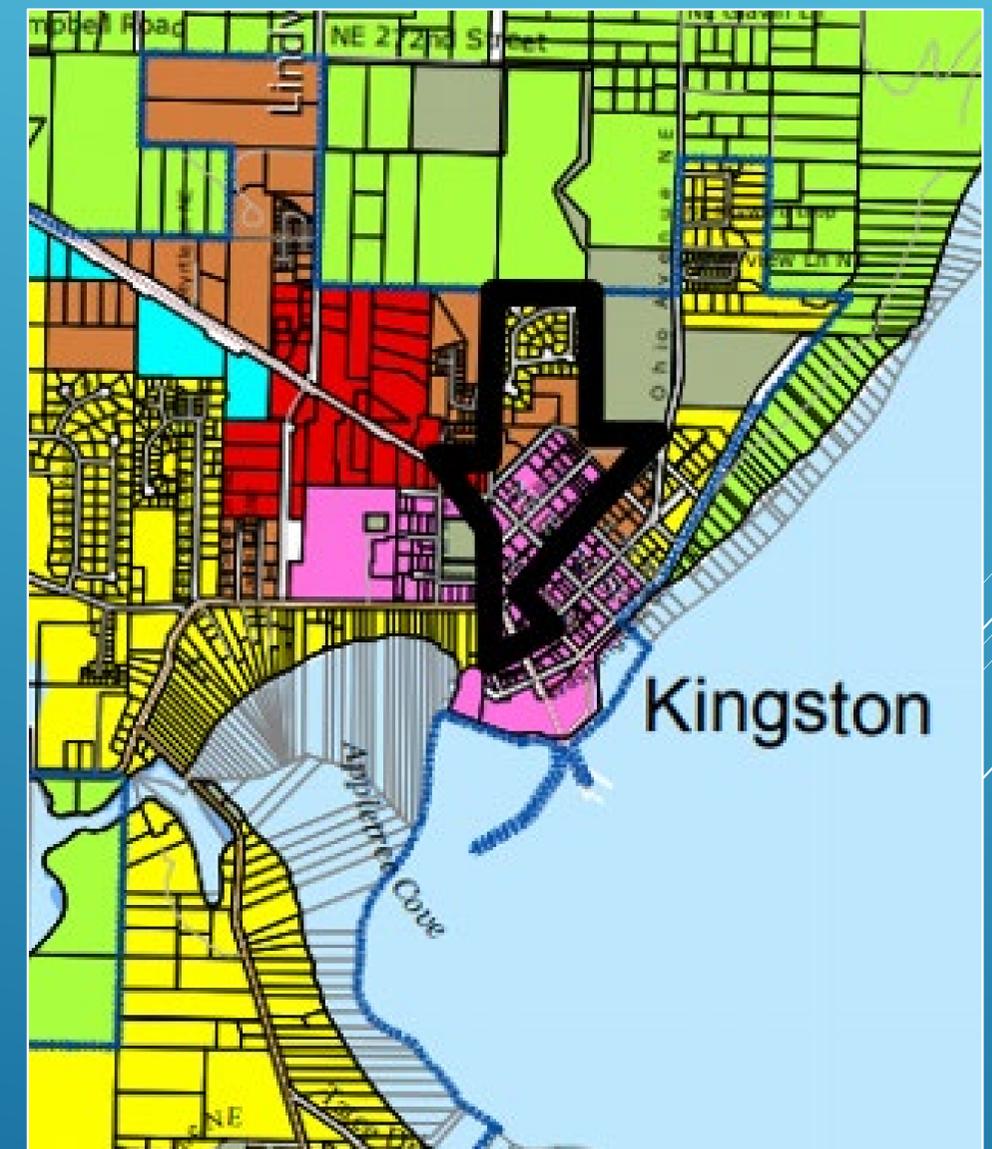
- ▶ Kitsap County constructs, maintains and owns
- ▶ Majority of treatment capacity (~75%) for existing streets and development
- ▶ 25% of capacity available for new development and re-development within service area
- ▶ New development uses County regional facility in lieu of private on-site facilities
- ▶ New/re-development pays Kitsap County a connection charge based on impervious surface



# SERVICE AREA



- Older infrastructure
- Higher development density
- Minimal water quality treatment





# CONNECTION PROCESS AND COSTS

- ▶ Capacity available for full build out of Service Area
- ▶ Cost based on impervious area; in range of \$1sf/TIA
- ▶ Final connection process and cost to be determined at project completion
- ▶ Kitsap County performs and pays for O&M
- ▶ Time and cost savings compared to on-site facility

**Table 5-5. Cost Comparison for Typical Development Project (with 10,000 sq-ft new impervious surfaces).**

COST ELEMENT	DEVELOPMENT AND STORMWATER MGMT. SCENARIO		
	RESIDENTIAL ON-SITE	COMMERCIAL ON-SITE	KINGSTON REGIONAL FACILITY
Engineering Design	\$20,000	\$21,000	\$5,000 <sup>1</sup>
Flow Control and Treatment <sup>2</sup>	\$20,000	\$49,000	\$8,670
<b>TOTAL</b>	<b>\$40,000</b>	<b>\$69,000</b>	<b>\$13,670</b>
<i>Cost Savings Due to Regional Facility</i>	<i>\$26,330</i>	<i>\$55,330</i>	<i>-</i>

<sup>1</sup> Assumes abbreviated engineering report.

<sup>2</sup> Does not include costs to implement on-site stormwater management elements required under MR 5.



# OTHER REGIONAL FACILITIES IN KITSAP COUNTY



**MANCHESTER STORMWATER PARK**



**SUQUAMISH REGIONAL TREATMENT**



**WHISPERING FIRS STORMWATER PARK**



**SILVERDALE DUWE'IQ TREATMENT WETLAND**

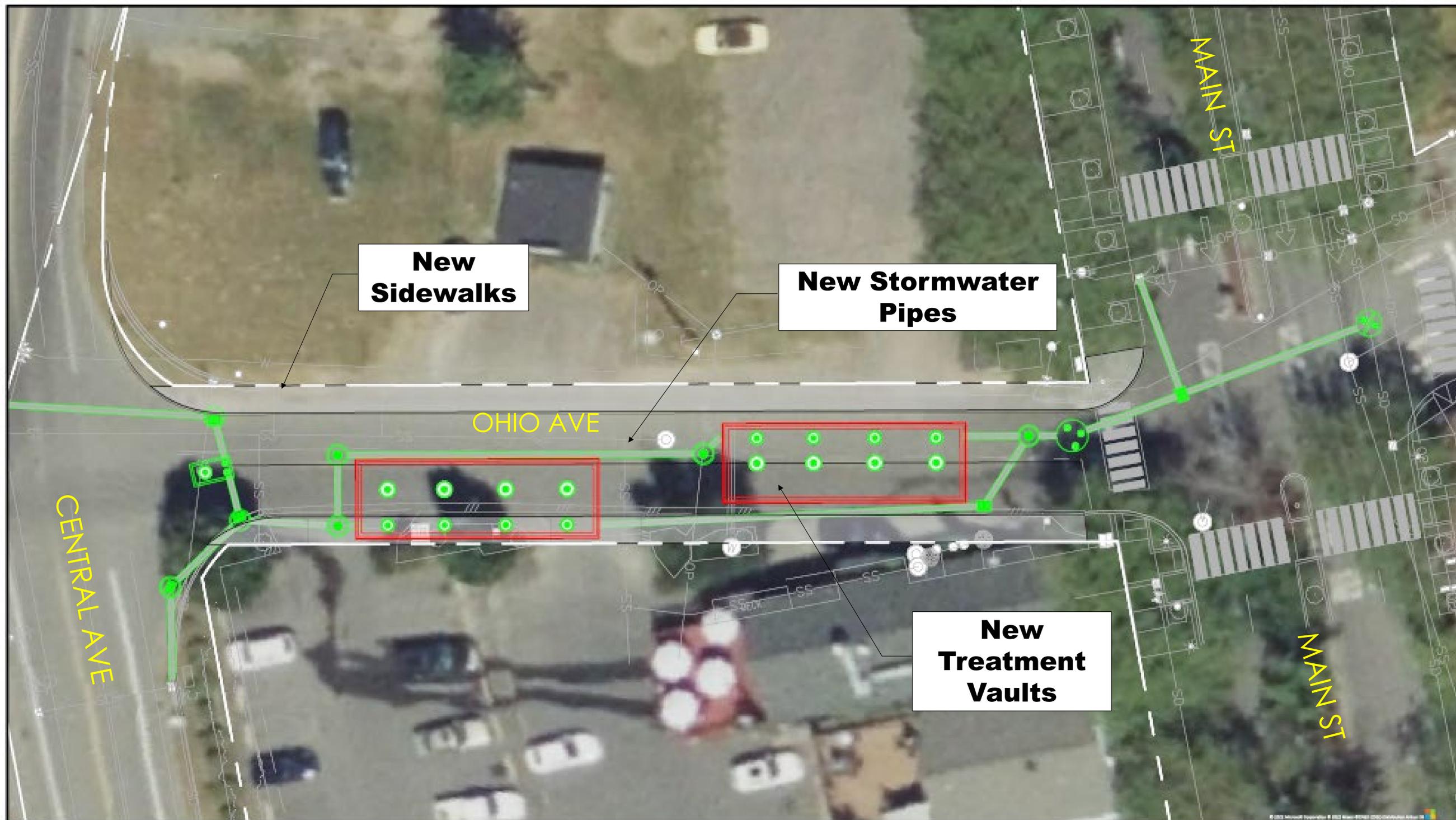


# PROPOSED TREATMENT LOCATION

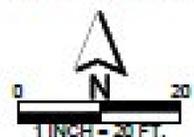




# PROPOSED LAYOUT – OHIO STREET



Parametrix 045 February 2, 2022 FILE 2022-02-02\_NC\_UTI



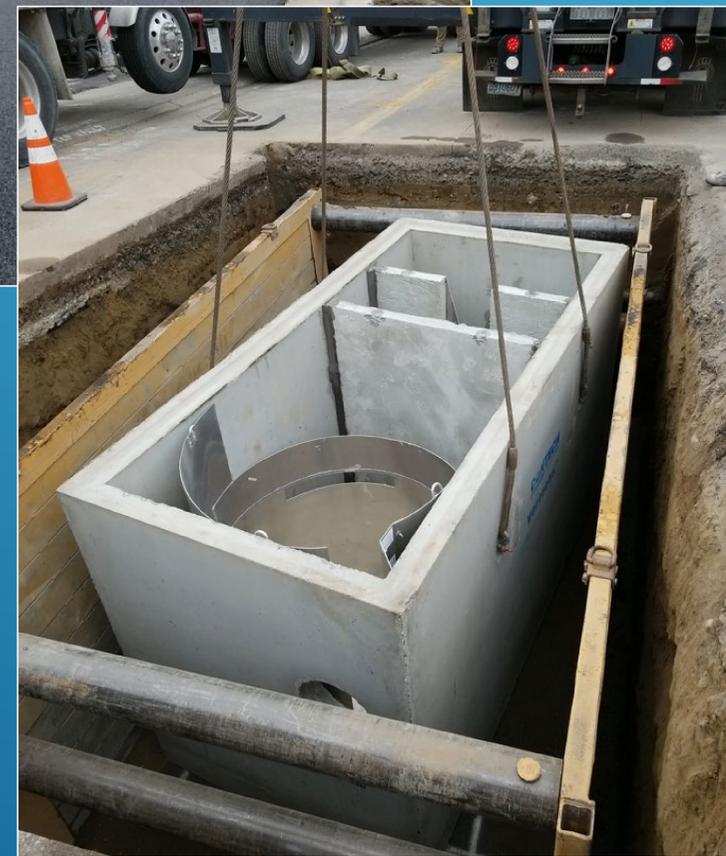
FEBRUARY 2, 2022 - PRELIMINARY

Ohio Street Configuration  
KINGSTON REGIONAL STORMWATER TREATMENT



# CONSTRUCTION PLAN

- ▶ Construction 2023
- ▶ 60 days
- ▶ Traffic control to minimize travel disruptions
- ▶ Future community updates prior to construction





# SUMMARY

- ▶ Improves water quality
- ▶ Supports sustainable economic development
- ▶ Construction 2023
- ▶ Available to connect fall 2023
- ▶ Future community updates in 2022 and 2023





# NEXT STEPS

ACTIVITY	ESTIMATED COMPLETION
Final Design	Summer 2022
Advertise for Construction	Fall 2022
Construction	2023
Connection charge approved By County Commissioners	Summer 2023
Develop connection permitting process	Summer 2023
Available for Connection	Fall 2023
Community Updates	Fall 2022, Spring 2023



# QUESTIONS?

**For Further Information:**

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