

### **Transportation and Infrastructure Planning Committee**

City Hall, Council Chambers 116 First Street, Neptune Beach, Florida 32266 Friday, May 19, 2023, 10:00 AM

### Agenda

- 1. Call to Order/Welcome
- 2. Stormwater- Introductions Deryle Calhoun, Public Works Director
- **3. Stormwater Strategic Planning Presentation** Brian Icerman, Jones Edmunds
- 4. FDOT SR A1A/Third St Complete Streets Concept Colin Moore, Deputy Public Works Director
- 5. Infrastructure Funding Presentation Jim Gilmore, The Southern Group
- 6. Next Meeting –TBD

\*Council Members in attendance at the Committee Meeting may include:

<u>Chair</u>: Mayor Elaine Brown <u>Vice-Chair</u>: Councilor Nia Livingston <u>Standing Member</u>: Vice-Mayor Kerry Chin

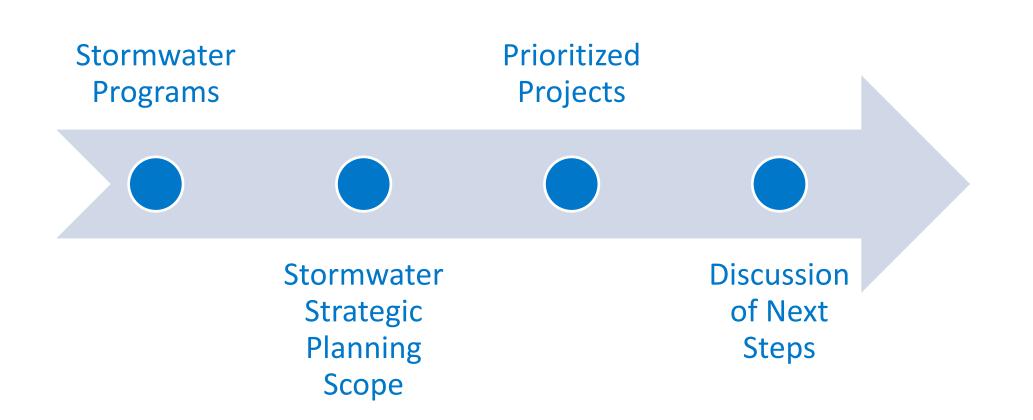
Councilor Josh Messinger Councilor Lauren Key

# City of Neptune Beach Stormwater Strategic Planning

May 19, 2023

**JonesEdmunds** 

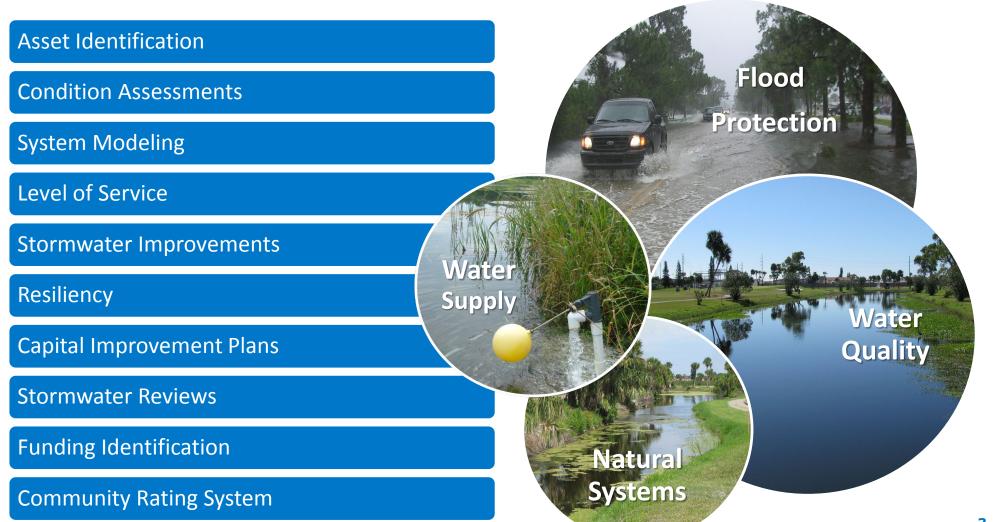




# Stormwater Program

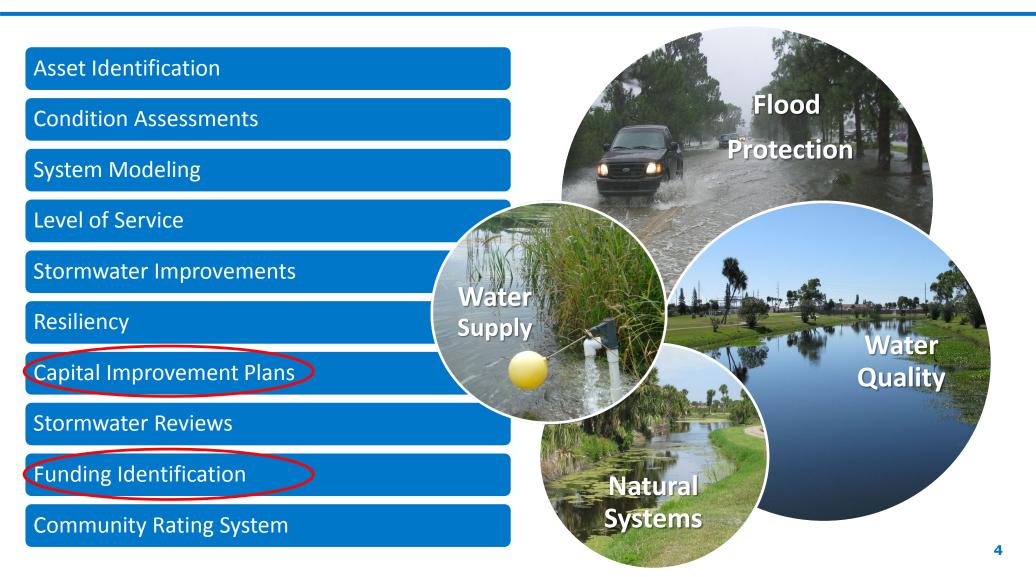
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# **Typical Goals**

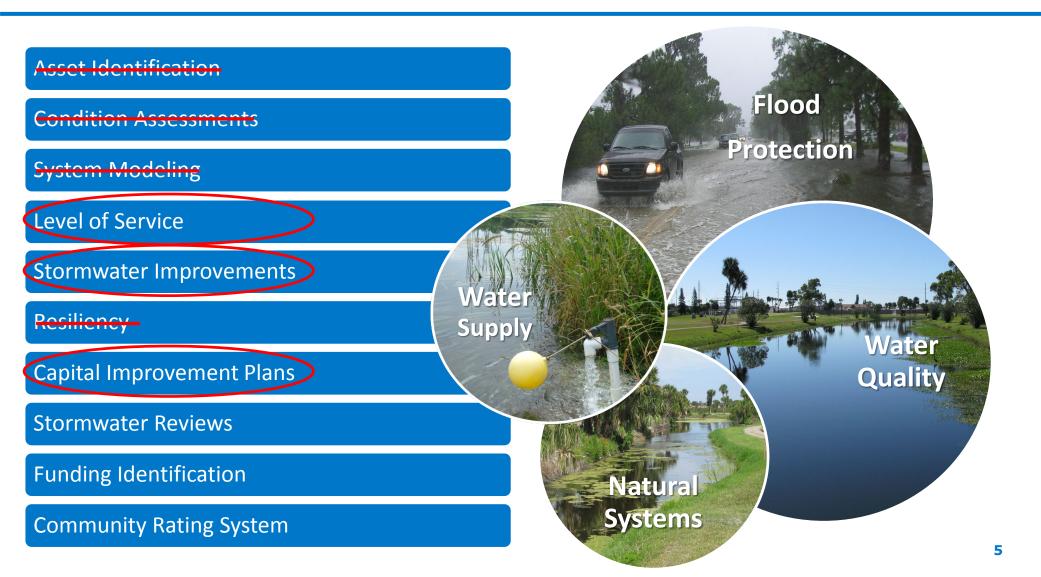




## Project Goals-Ish?

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# **Public Meeting**







## PUBLIC MEETING

Neptune Beach City Hall 116 First Street Neptune Beach, FL 32266

March 30, 2022 | 5PM - 7PM ET

The City of Neptune Beach is holding a public outreach meeting for residents to provide input into the stormwater strategic planning process. The open-house style meeting, which is designed for social distancing, will include information on Neptune Beach's stormwater systems. We are also seeking public input to identify drainage challenges and concerns for inclusion in the upcoming stormwater strategic plan.

The meeting will take place in the Council Chambers at City Hall, 116 First Street, Neptune Beach, 32266, on Wednesday, March 30, 2022, at 5 pm.

If you are interested in providing information or feedback about specific drainage related concerns, please plan to attend the meeting. Residents are encouraged to complete an online survey, in advance of the meeting, that can be accessed using the QR code, or by visiting https://arcg.is/1brkeL (URL is case sensitive).

Feedback can also be provided at the meeting or via email to Marketing@JonesEdmunds.com.



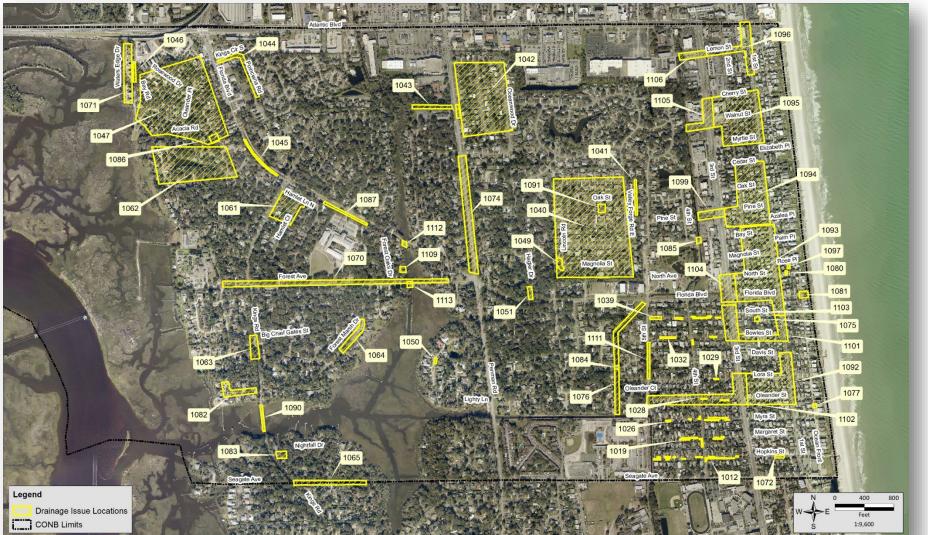
## STORMWATER STRATEGIC PLANNING



# Drainage Issue Inventory

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# **Capital Project Planning**

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# **Types of Improvements**

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## **IMPROVEMENT OPTIONS: INVERTED CROWN**







### CONS Relatively quick construction Makes roadway maintenance more challenging Use existing ROW Requires more maintenance than traditional roads Less invasive effective way of Standing water in roadways during storm events removing roadway ponding (may impact emergency vehicle access) Limited conflicts with Debris and sediment accumulation in the roadways existing utilities Speed bump removal required Not a standard practice on public roads

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**IMPROVEMENT OPTIONS:** 

LIGHTER, QUICKER,

CHEAPER

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# Small Inlet

CONS

Existing utility conflicts

Targeted approach

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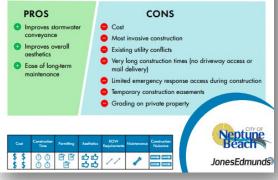
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# SIDEWALK

## **IMPROVEMENT OPTIONS:** CURB AND GUTTER







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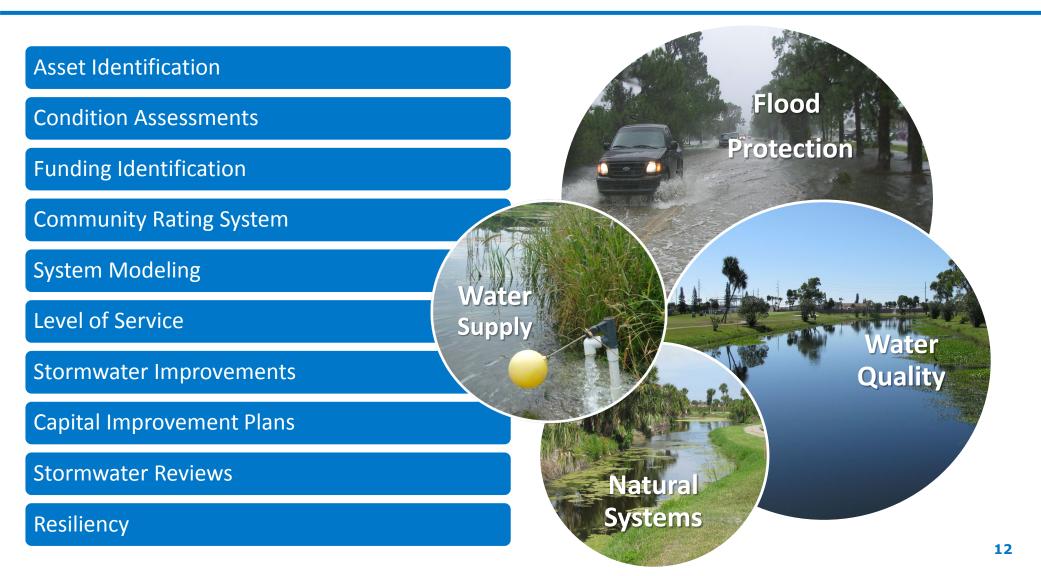
Ę	ID	Location	Improvement Category	Improvement Description for Cost Basis	Cost Estimate (\$)
	1084	Davis Street Culvert	Outfall Capacity Improvement	Improve culvert capacity in the 5 <sup>th</sup> Street outfall ditch where it crosses Davis Street. Cost estimate is based on the Florida Boulevard culvert construction cost plus 25 percent for engineering, data collection, oversight, etc.	1,250,000
	1085	Bay Street Culvert	Outfall Capacity Improvement	Improve culvert capacity in the outfall ditch that crosses Bay Street. Cost estimate is based on the Florida Boulevard culvert construction cost plus 25 percent for engineering, data collection, oversight, etc.	1,250,000
	1105	Stormwater Laterals – Walnut Street	Outfall Capacity Improvement	Construct stormwater lateral improvement proposed by Parsons. Cost estimate is based on the updated Parsons cost estimate.	1,500,000
	1040	Bal Harbour	Outfall Capacity Improvement	Improve capacity of the Bal Harbour stormwater system trunk line.	2,000,000
	1095	Stormwater Collection Improvements – Walnut Street Outfall	Collection System Capacity Improvement	Construct stormwater collection system improvement proposed by Parsons. Cost estimate is based on the updated Parsons cost estimate.	2,750,000
	1091	617 Oak Street	System Maintenance/ Repair	Clean, video inspect, and cured-in-place pipe (CIPP) lining for Oak Street or entire Bal Harbor neighborhood. Cost will vary based on linear footage of lining needed.	400,000
	1044	Kings Circle/ Poinciana Road	New Outfall	Construct outfall pipe from the low area east of Poinciana Road to Florida Boulevard.	300,000
	1046	Waters Edge Drive Ditch	Outfall Capacity Improvement	Improve/establish north-south ditch east of Waters Edge Drive and improve culvert crossings under Pine Place and Waters Edge Drive.	400,000
	1113	Forest Avenue Culverts (Hopkins Creek)	Outfall Capacity Improvement	Raise low parts of Forest Avenue and improve capacity of the crossing at Forest Avenue and Hopkins Creek. This would require a bridge or additional box culverts.	2,500,000
	1026	400 and 500 Blocks Myra Street	Lighter, Quicker, Cheaper Improvement to Reduce Nuisance Ponding	Construct lighter, quicker, cheaper improvement with yard drains and a pipe connected to the existing inlets at the corner of Oleander Street and 4 <sup>th</sup> Street.	300,000
	1012	400 and 500 Blocks Hopkins Street	Lighter, Quicker, Cheaper Improvement to Reduce Nuisance Ponding	Construct lighter, quicker, cheaper improvement with yard drains and pipe connections to the existing inlets at 3 <sup>rd</sup> Street and the west end of Hopkins Street.	600,000
	1019	400 and 500 Blocks Margaret Street	Lighter, Quicker, Cheaper Improvement to Reduce Nuisance Ponding	Construct lighter, quicker, cheaper improvement with yard drains and pipe connections to the existing inlets at 3 <sup>rd</sup> Street and the west end of Margaret Street.	500,000

ID	Location	Improvement Category	Improvement Description for Cost Basis	Cost Estimate (\$)
1032	400 and 500 Blocks Bowles Street	Lighter, Quicker, Cheaper Improvement to Reduce Nuisance Ponding	Construct lighter, quicker, cheaper improvement with yard drains and a pipe connected to the existing inlets at the corner of Bowles Street and 4th Street. Remove speedbump on the 400 block if residents approve.	250,000
1039	400 and 500 Blocks South Street	Lighter, Quicker, Cheaper Improvement to reduce nuisance ponding	Construct lighter, quicker, cheaper improvement with yard drains and pipe connections to the existing inlets at the corner of 4 <sup>th</sup> Street and 5 <sup>th</sup> Street.	400,000
1099	Stormwater Laterals – Pine Street	Outfall Capacity Improvement	Construct stormwater lateral improvement proposed by Parsons. Cost estimate is based on the updated Parsons cost estimate.	1,000,000
1102	Stormwater Laterals – Oleander Street	Outfall Capacity Improvement	Construct stormwater lateral improvement proposed by Parsons. Cost estimate is based on the updated Parsons cost estimate.	7,000,000
1103	Stormwater Laterals – Florida Boulevard South	Outfall Capacity Improvement	Construct stormwater lateral improvement proposed by Parsons. Cost estimate is based on the updated Parsons cost estimate.	1,000,000
1104	Stormwater Laterals – Florida Boulevard North	Outfall Capacity Improvement	Construct stormwater lateral improvement proposed by Parsons. Cost estimate is based on the updated Parsons cost estimate.	1,500,000
1106	Stormwater Laterals – Lemon Street	Outfall Capacity Improvement	Construct stormwater lateral improvement proposed by Parsons. Cost estimate is based on the updated Parsons cost estimate.	2,000,000
1092	Stormwater Collection Improvements – Oleander Street Outfall	Collection System Capacity Improvement	Construct stormwater collection system improvement proposed by Parsons. Cost estimate is based on the updated Parsons cost estimate.	3,750,000
1093	Stormwater Collection Improvements – Florida Boulevard North	Collection System Capacity Improvement	Construct stormwater collection system improvement proposed by Parsons. Cost estimate is based on the updated Parsons cost estimate.	3,500,000
1094	Stormwater Collection Improvements – Pine Street Outfall	Collection System Capacity Improvement	Construct stormwater collection system improvement proposed by Parsons. Cost estimate is based on the updated Parsons cost estimate.	1,750,000
1096	Stormwater Collection Improvements – Lemon Street Outfall	Collection System Capacity Improvement	Construct stormwater collection system improvement proposed by Parsons. Cost estimate is based on the updated Parsons cost estimate.	2,000,000
1101	Stormwater Collection Improvements – Florida Boulevard South	Collection System Capacity Improvement	Construct stormwater collection system improvement proposed by Parsons. Cost estimate is based on the updated Parsons cost estimate.	1,000,000
1043	Penman Road Outfall Ditch	System Maintenance/ Repair	Clean outfall ditch.	20,000

# **Discussion of Next Steps**

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## JonesEdmunds



# Recommended Immediate Steps JonesEdmunds

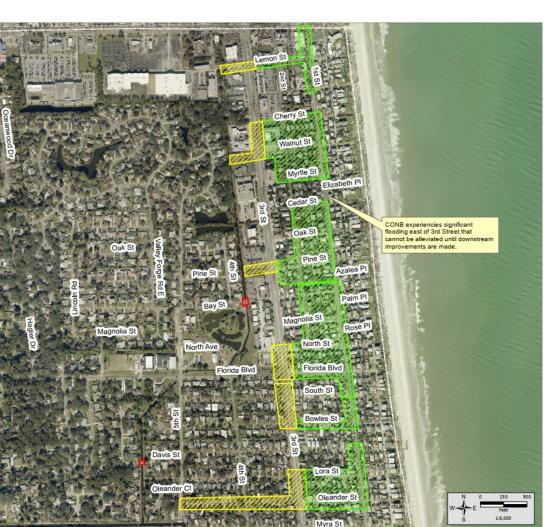
## **FDOT Joint Projects**

Multi-community Benefit Projects – Hopkins Creek Crossings

System Restoration – CIPP lining, maintenance, etc. (~\$500-600k)

## **Stormwater Modeling**





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	Peak Stage Summary														Exhibit 1B										
Design Event								Peak Water Surface Elevations (feet NAVD88)											Aquatic Drive, Cavalla Road,						
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# Resiliency

























