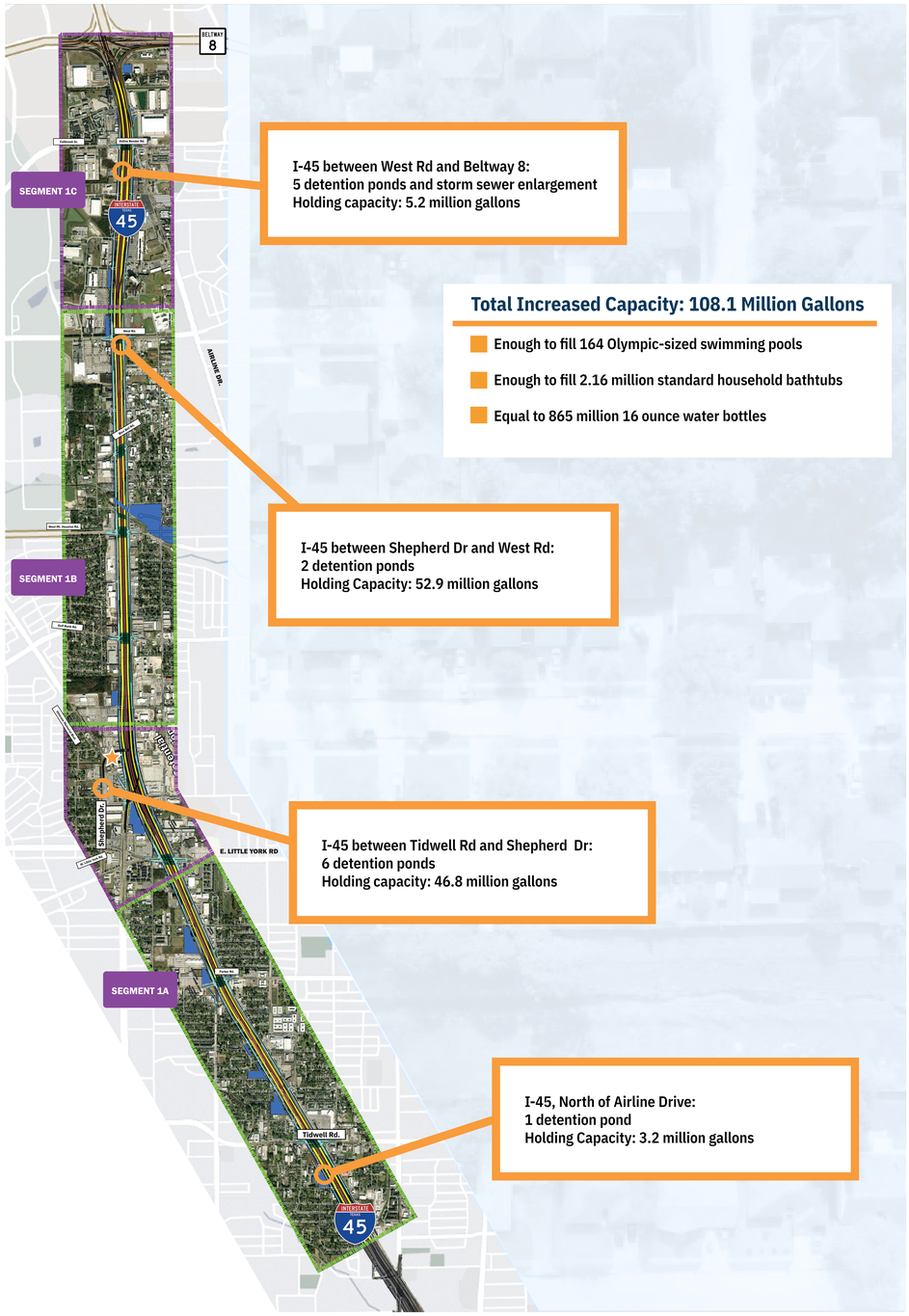
I-45 NHHIP Segment 1
Detention Pond Details

For additional information about the Project, visit us online at: www.txdot.gov/nhhip

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DETENTION POND LOCATIONS AND CAPACITIES



I-45 between West Rd and Beltway 8:
5 detention ponds and storm sewer enlargement
Holding capacity: 5.2 million gallons

Total Increased Capacity: 108.1 Million Gallons

- Enough to fill 164 Olympic-sized swimming pools
- Enough to fill 2.16 million standard household bathtubs
- Equal to 865 million 16 ounce water bottles

I-45 between Shepherd Dr and West Rd:
2 detention ponds
Holding Capacity: 52.9 million gallons

I-45 between Tidwell Rd and Shepherd Dr:
6 detention ponds
Holding capacity: 46.8 million gallons

I-45, North of Airline Drive:
1 detention pond
Holding Capacity: 3.2 million gallons

WHERE DO THE DETENTION PONDS DRAIN TO?

The detention ponds in Segment 1 will drain into two Harris County Flood Control District bayous. One is Halls Bayou, which crosses I-45 at West Mount Houston Road. The second is Little White Oak Bayou, which begins in an area between Shepherd Drive and I-45 and eventually winds southward closer to I-45 itself.



HALLS BAYOU

Several of the proposed Segment 1 detention ponds will drain to Halls Bayou. This includes the new detention pond proposed to be built just north of Halls Bayou.

It is worth noting that farther downstream, the Harris County Flood Control District (HCFCD) has a proposed project to widen the Halls Bayou channel from Hopper Road to just south of Little York Road.



LITTLE WHITE OAK BAYOU

Other Segment 1 detention ponds will drain into Little White Oak Bayou, which is located on the west side of I-45 in this segment.

The HCFCD has completed two improvements to Little White Oak Bayou in this area: the construction of a detention pond west of Airline Drive between the bayou and I-45; and the construction of a detention pond near Yale Street and Tidwell Road. The HCFCD is working closely with TxDOT on I-45 NHHIP detention.

PROBLEM: I-45 CROSS STREET FLOODING

Residents often point to Tidwell and West Mount Houston as two of the worst spots for flooding when heavy rain hits Houston. The picture below shows West Mount Houston at I-45.



SOLUTION

The flood mitigation improvements proposed in the I-45 Project Segment 1 would help reduce this flooding by providing additional spaces to hold stormwater during large downpours.

PROBLEM: I-45 FRONTAGE ROAD FLOODING

The picture below shows the I-45 northbound frontage road just north of West Mount Houston Road.



SOLUTION

The proposed detention pond along Halls Bayou would help reduce the risk and severity of flooding in this area.

Segment 1 would provide overall more than 100 million gallons of additional detention storage, which would help reduce roadway flooding and improve stormwater management during large storm events.

Texas Department of Transportation

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