TIRZ 17 Regional Drainage Study Initial Results

September 28, 2010



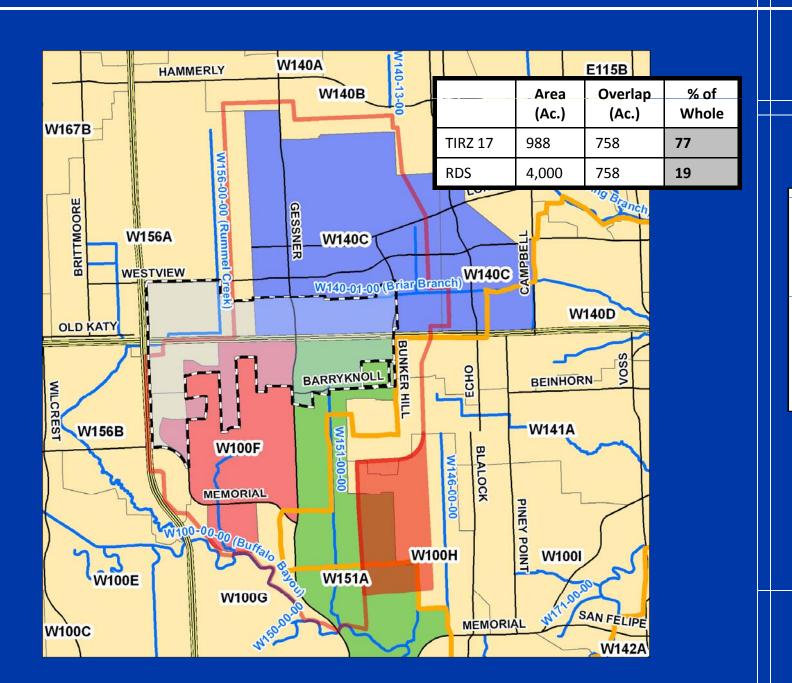
Background for TIRZ 17 RDS

- HCFCD Study July 2009
 - Focused W151 South of IH-10
- Regional Drainage Issues
 - Interconnected Systems
 - W151 and W140-01
 - System and Basin Overflow
 - W151 to W153
- Improved Topographic Data (Aug. 2009)
- Revised City Project Sequencing
 - Regional Feasibility Studies Have Become a Required Part of the Project Process
- Improvement Demand Greater than Available TIRZ 17 Funding

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TIRZ 17 Regional Drainage Study



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Study Criteria

- Study Design Event:
 - 10-year HCFCD W151 Improvement Study
- Identify Primary Drainage Improvements:
 - Localized Improvements will Build on Primary improvements

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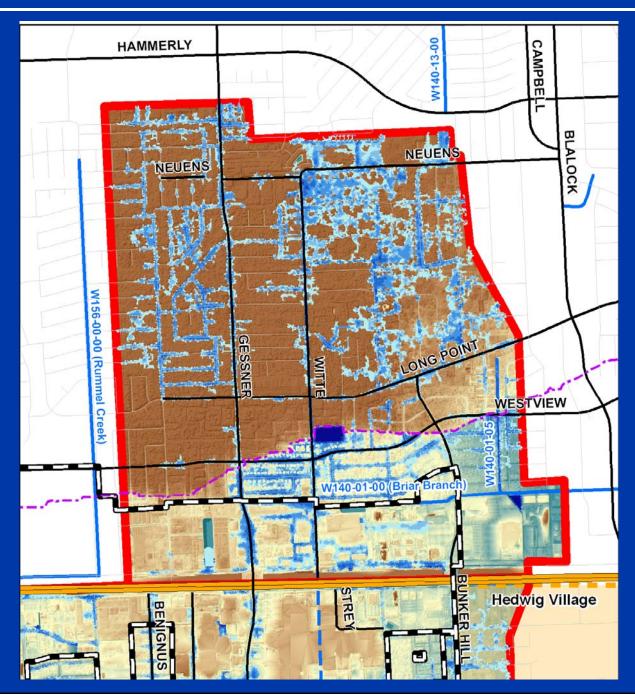
Results

- Evaluated Conveyance and Detention Alternatives
- Detention Maximizes Benefits of Proposed Conveyance Alternatives
- Evaluated Alternative for Improvements to W151 at HCFCD's Request
- Order of Projects Presented does not Represent Proposed Implementation Sequencing

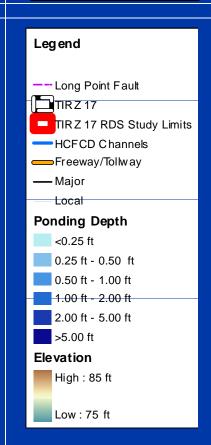
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North of IH-10 - 10-Year Event Existing Conditions - Topography

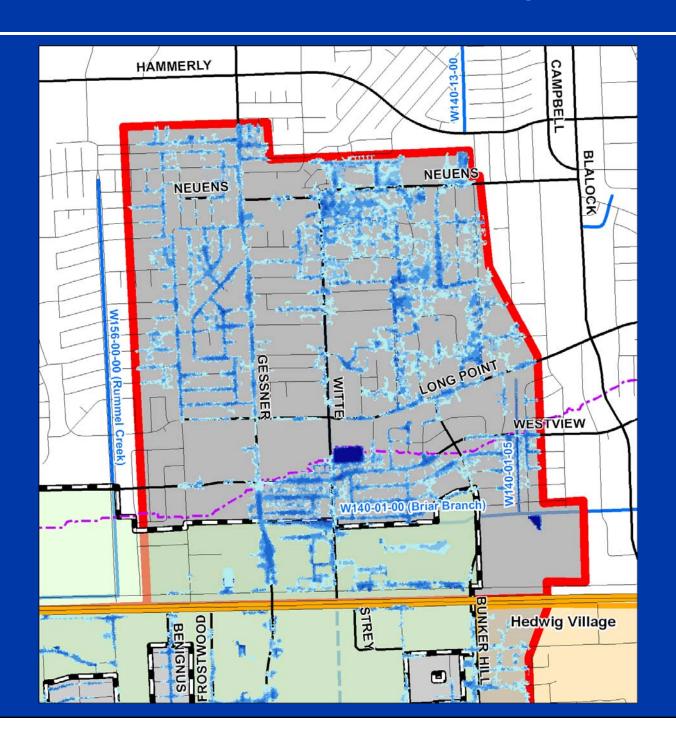


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North of IH-10 - 10-Year Event Existing Conditions

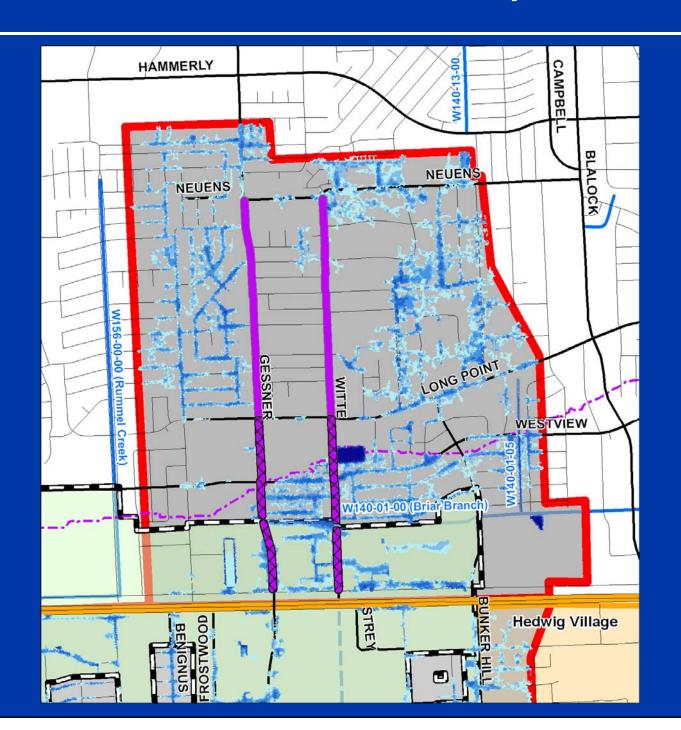


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North of IH-10 - Gessner & Witte Improvements

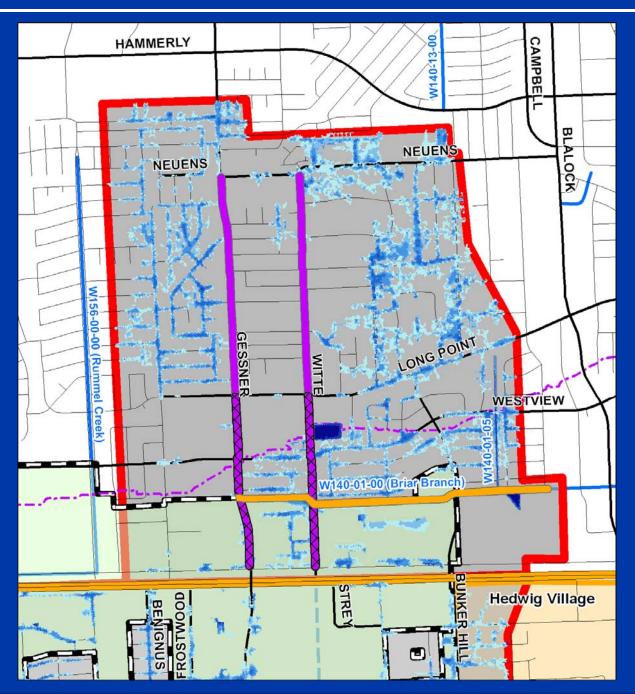


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North of IH-10 - Gessner, Witte, and Briar Branch Channel Improvements

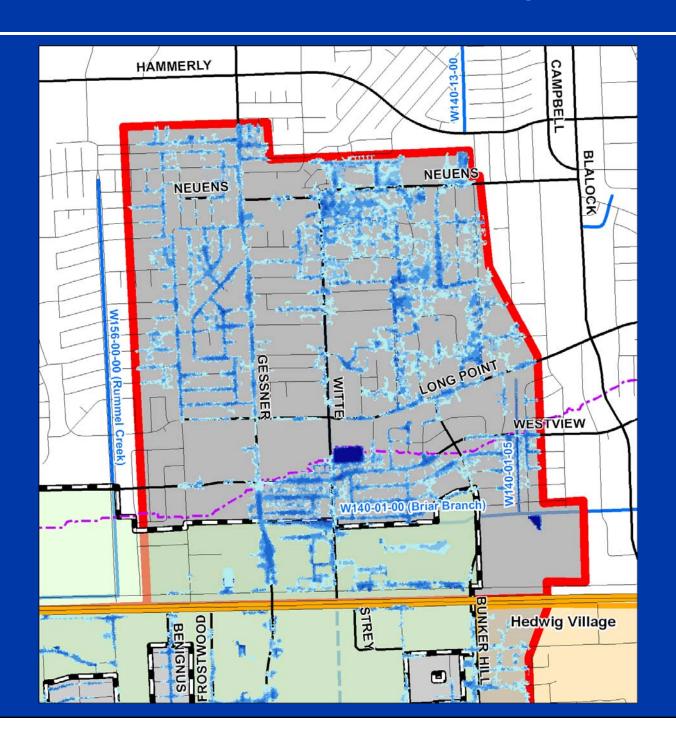


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North of IH-10 - 10-Year Event Existing Conditions

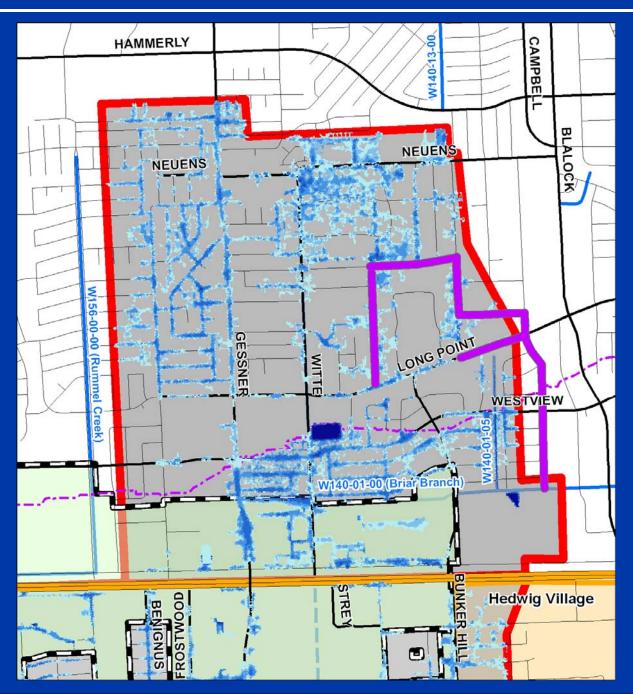


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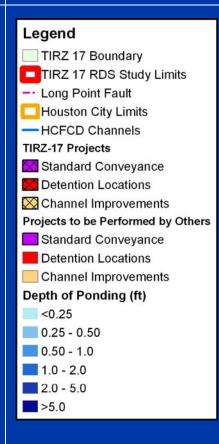




North of IH-10 - Oak Tree & Longpoint Improvements

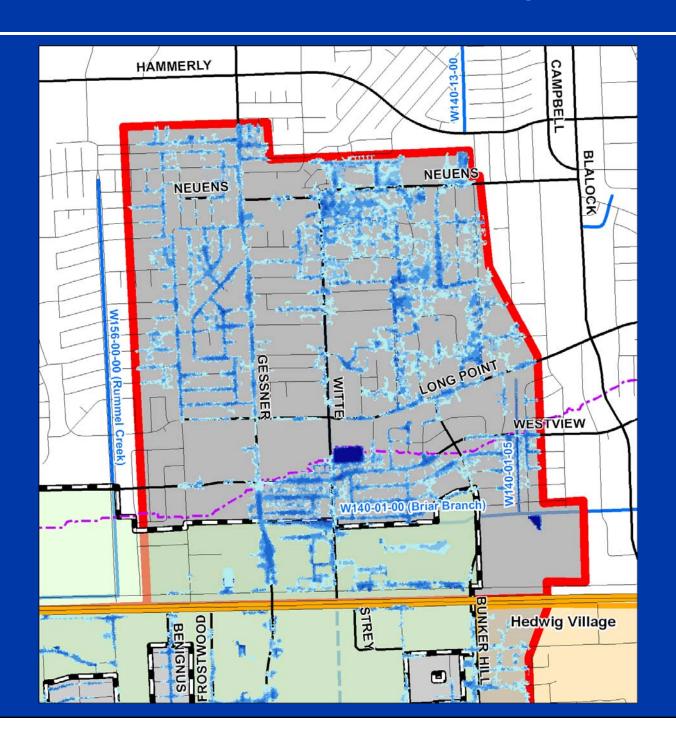


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North of IH-10 - 10-Year Event Existing Conditions

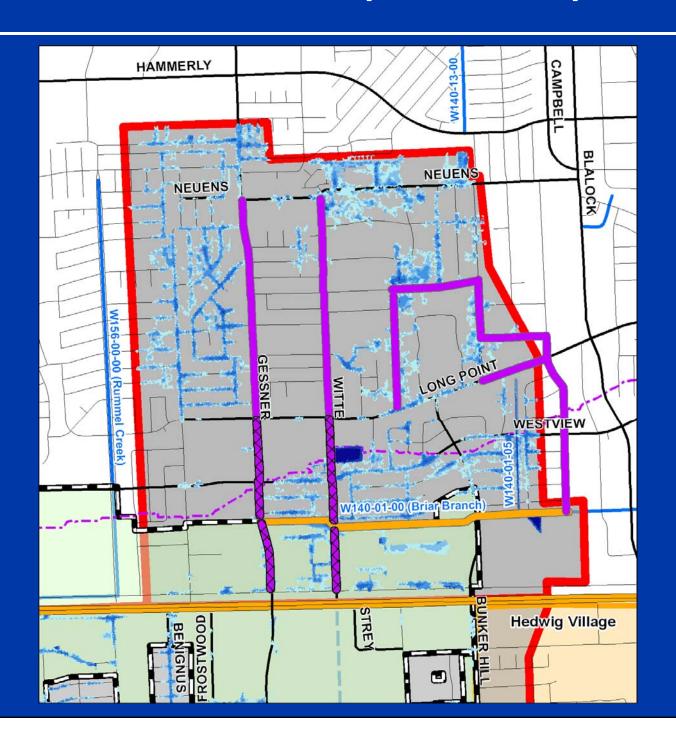


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North of IH-10 - Overall Improvement Options



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North of IH-10 Summary

Conveyance:

Identified Four (4) Alternatives

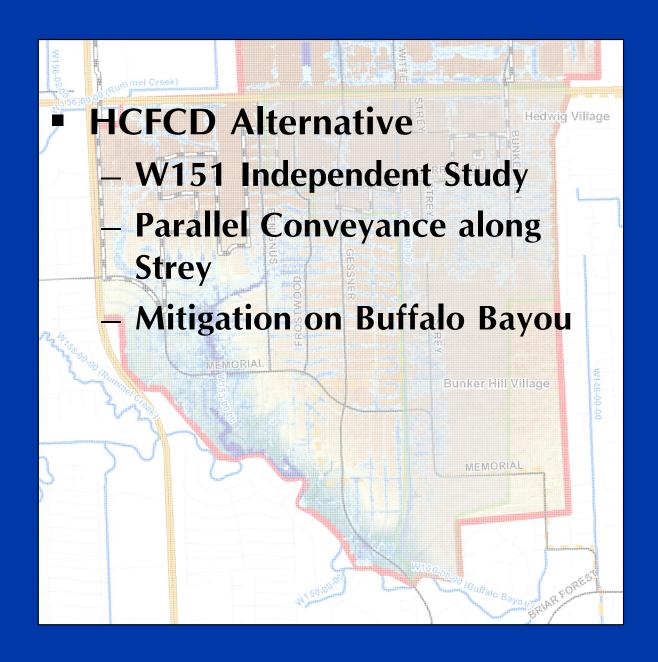
Detention:

- No Functional and Operational Detention
 Site within TIRZ Boundary
- Exploring Detention Opportunities Outside Boundaries with Partnering Agencies

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South IH-10

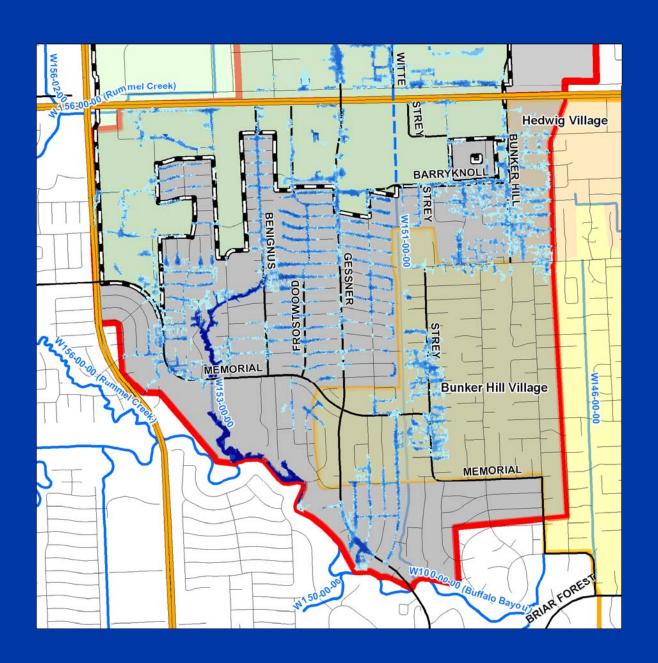


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South of IH-10 - 10-Year Event Existing Conditions

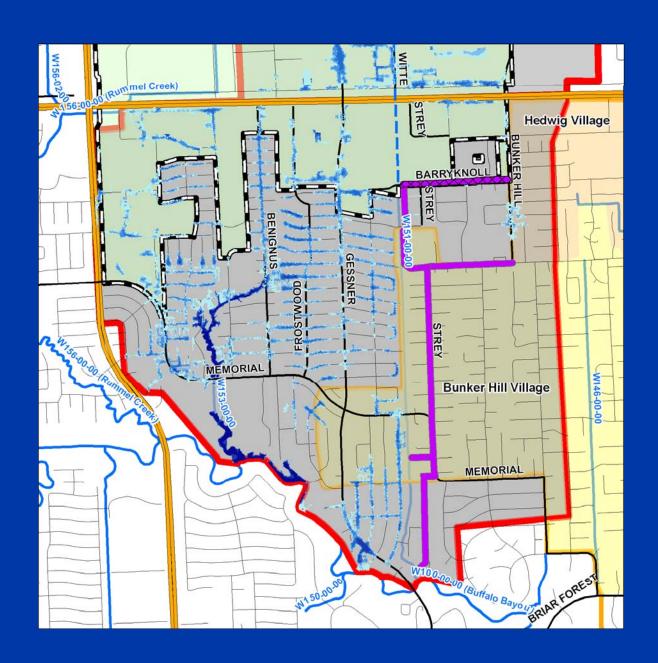


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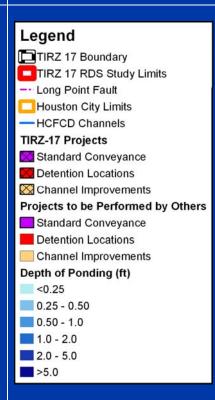




South of IH-10 - Strey Lane, Barryknoll East, and Taylorcrest Improvements

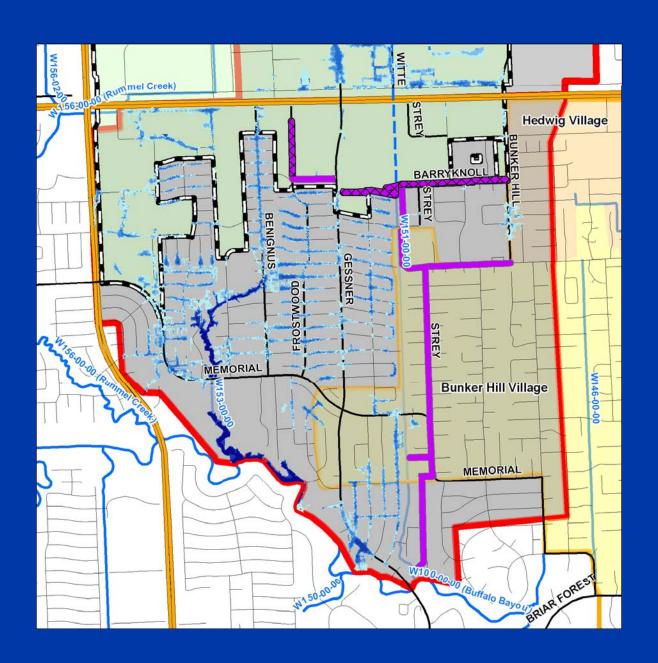


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South of IH-10 - Strey Lane, Barryknoll East and West, and Taylorcrest Improvements

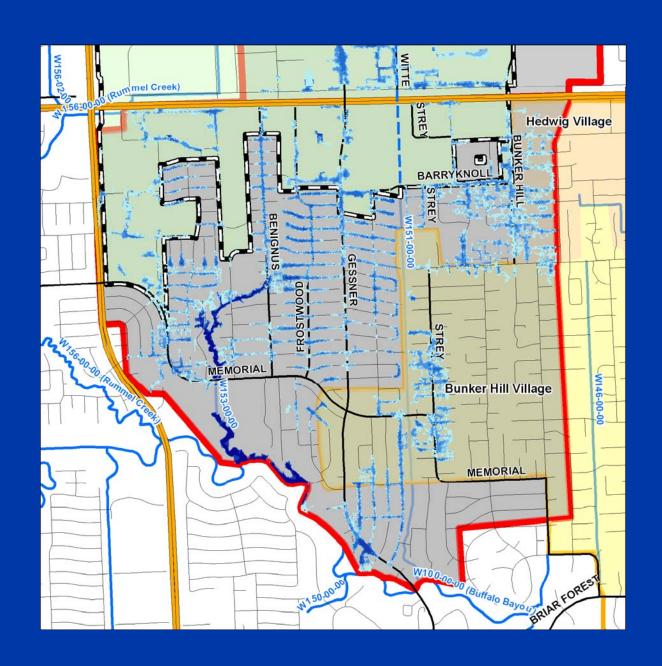


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South of IH-10 - 10-Year Event Existing Conditions

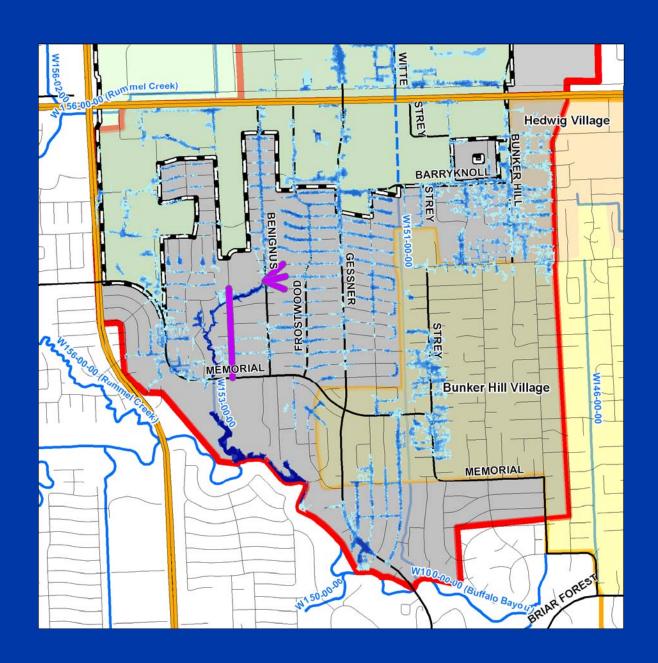


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South of IH-10 - W153 Frostwood & Tallowood Improvements

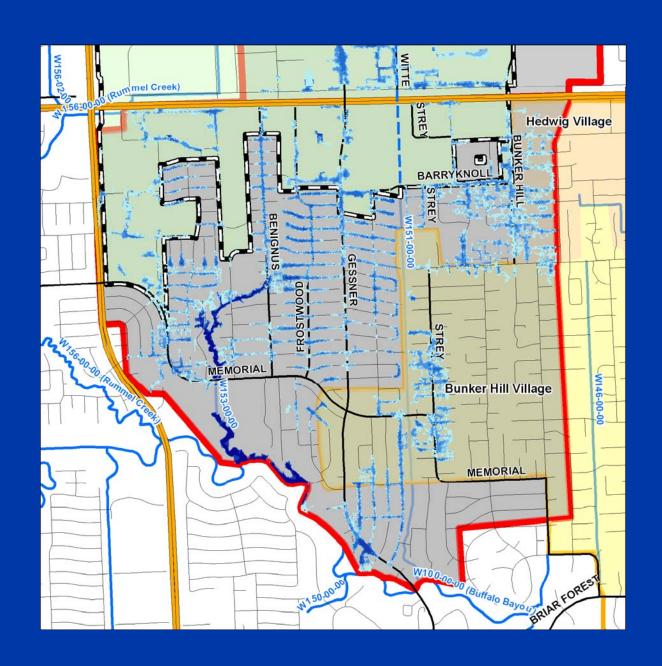


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South of IH-10 - 10-Year Event Existing Conditions

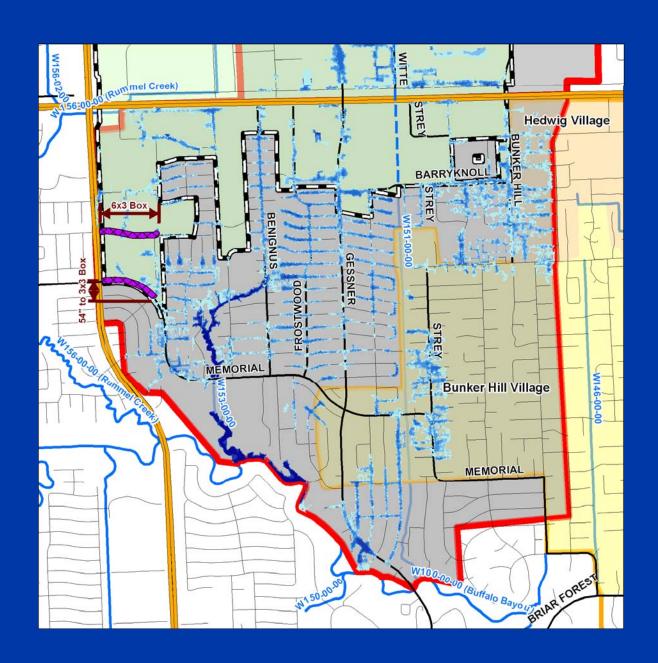


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South of IH-10 - Kimberley & Memorial West Improvements

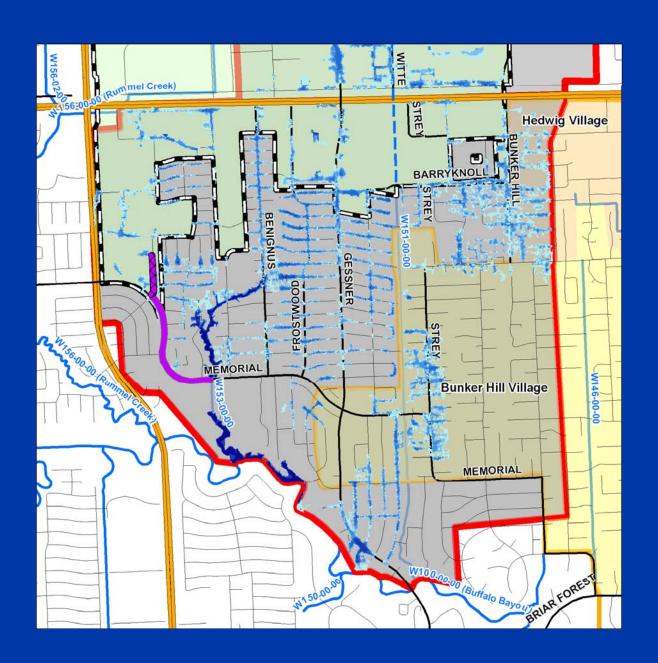


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South of IH-10 - Memorial West & West Bough Improvements

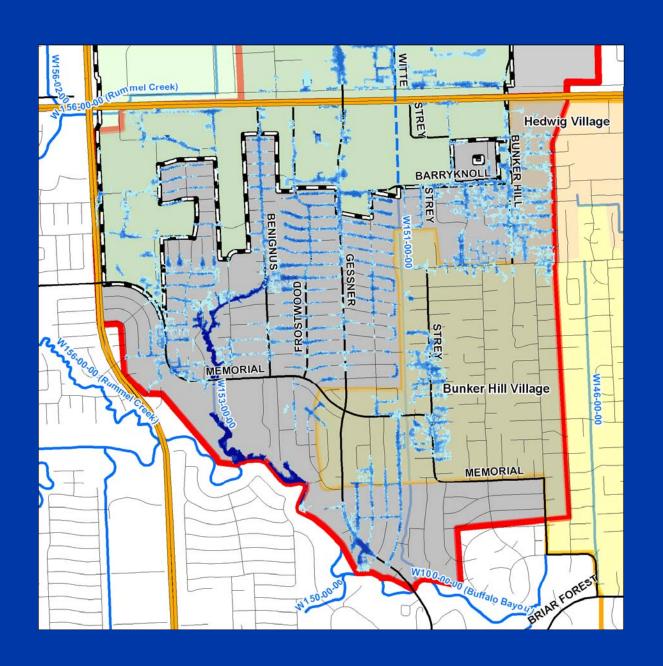


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South of IH-10 - 10-Year Event Existing Conditions

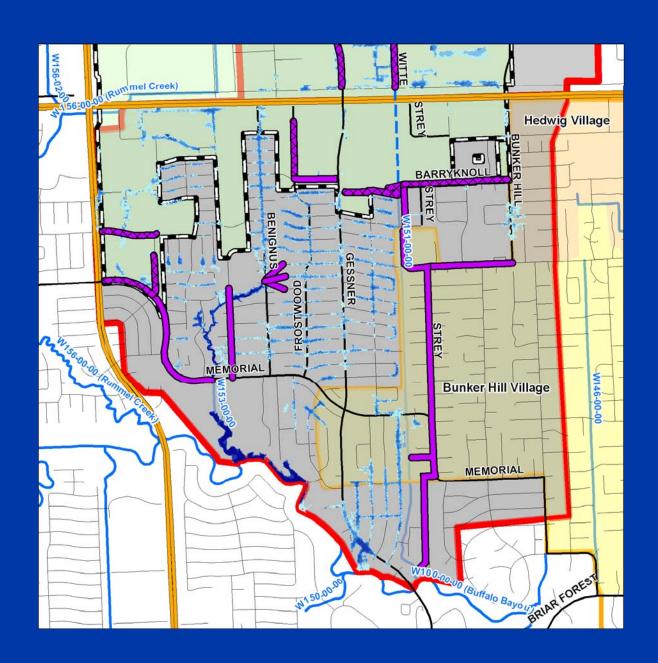


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South of IH-10 Overall Improvements



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South of IH-10 Summary

- HCFCD Strey Alternative Provides Higher Benefit vs. Original W151 Implementation Alternative
- Coordinating with HCFCD on Potential Detention on Buffalo Bayou
- Overall Solution Requires Construction of Existing TIRZ CIP Projects
- Study Confirmed
 - Recommended Sizes for Kimberley and Memorial (West)
 - Both Projects Independent from other Proposed Drainage Improvements

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Next Steps

 Continue to Identify Partners for Detention Opportunities North IH-10

 Continue to Work with HCFCD to Further Explore Detention Opportunities South of IH-10

Finalize Design for TIRZ 17 Kimberley
 CIP Project and Proceed with Memorial
 CIP Project

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