

**VICINITY MAP**  
1 INCH = 20 MILES

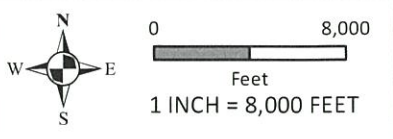
**LEGEND**

- Streams
- White Oak Bayou Catchments
- Detention Service Area

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**Exhibit A2-1**  
**Effective White Oak Bayou Catchments**

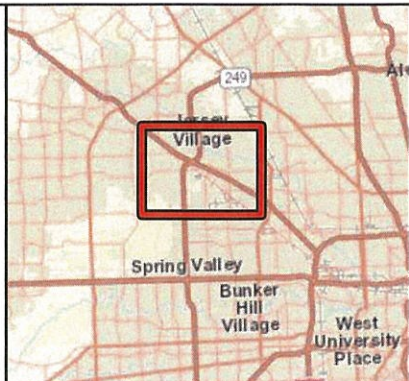
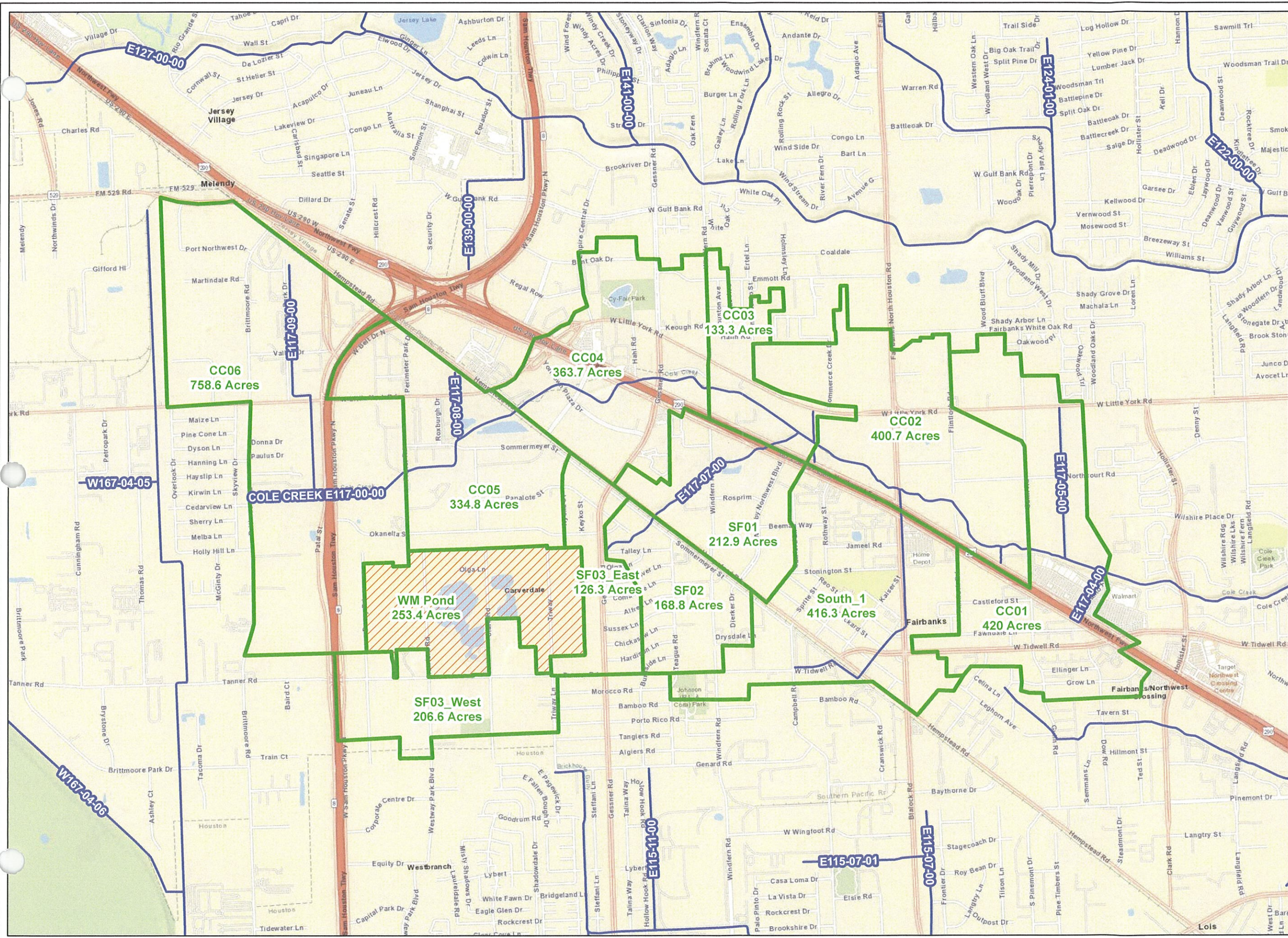
**HAWTHORN PARK LANDFILL**  
CITY OF HOUSTON, HARRIS COUNTY, TEXAS



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User Name: TMF  
Date: 2/27/2020  
Project Number: 15222.0002.00  
Design Phase: Analysis/GRS/MS/EX\_A2-1\_Effective White Oak Catchments.mxd

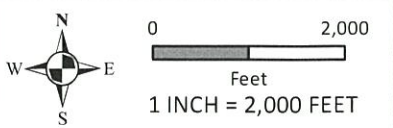


- LEGEND**
- Streams
  - Drainage Areas
  - Detention Service Area

\*2019 ESRI IMAGERY

**Exhibit A2-2  
Drainage Area Map**

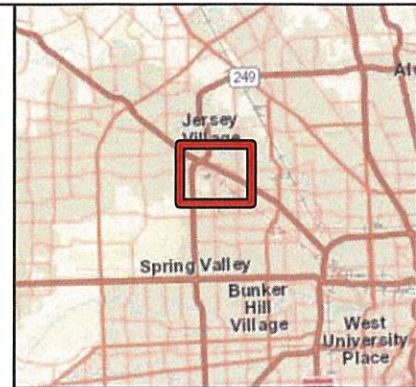
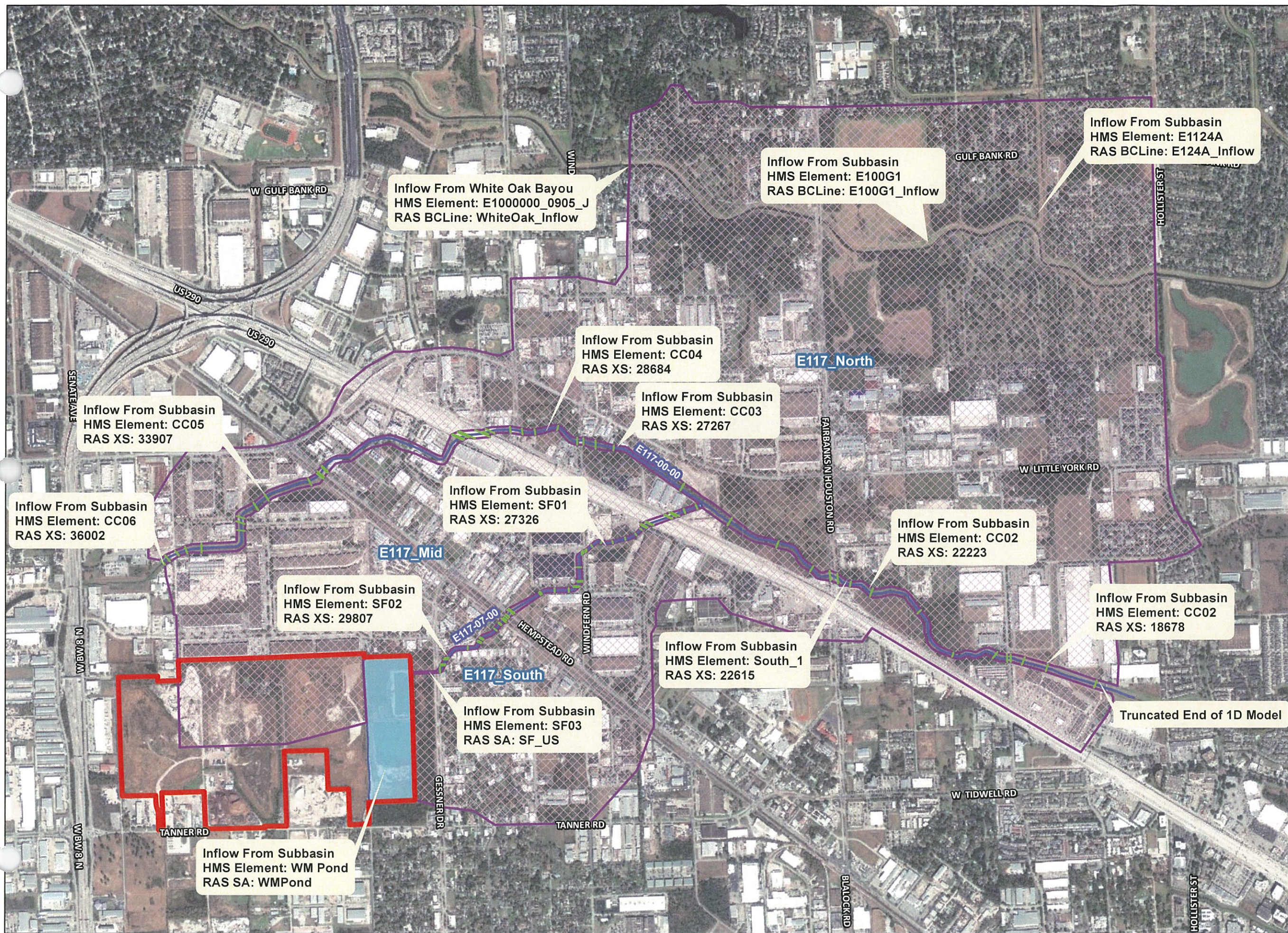
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Path: K:\152221\15222-0002-00 Hawthorn Park Permit\2 Design Phase\Analysis\GIS\SWQ\EX\_A2-2\_Drainage Area Map.mxd User Name: TMF Date: 2/27/2020 Project Number: 15222-0002-00



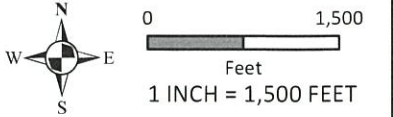
**VICINITY MAP**  
1 INCH = 10 MILES

- LEGEND**
- HEC-RAS Cross Sections
  - HEC-RAS Centerlines
  - 2D Areas
  - Storage Area
  - Detention Service Area

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**Exhibit A2-3  
Hydraulic Workmap**

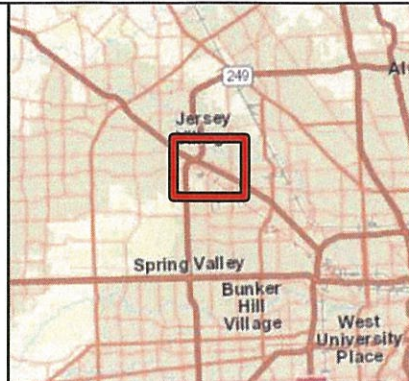
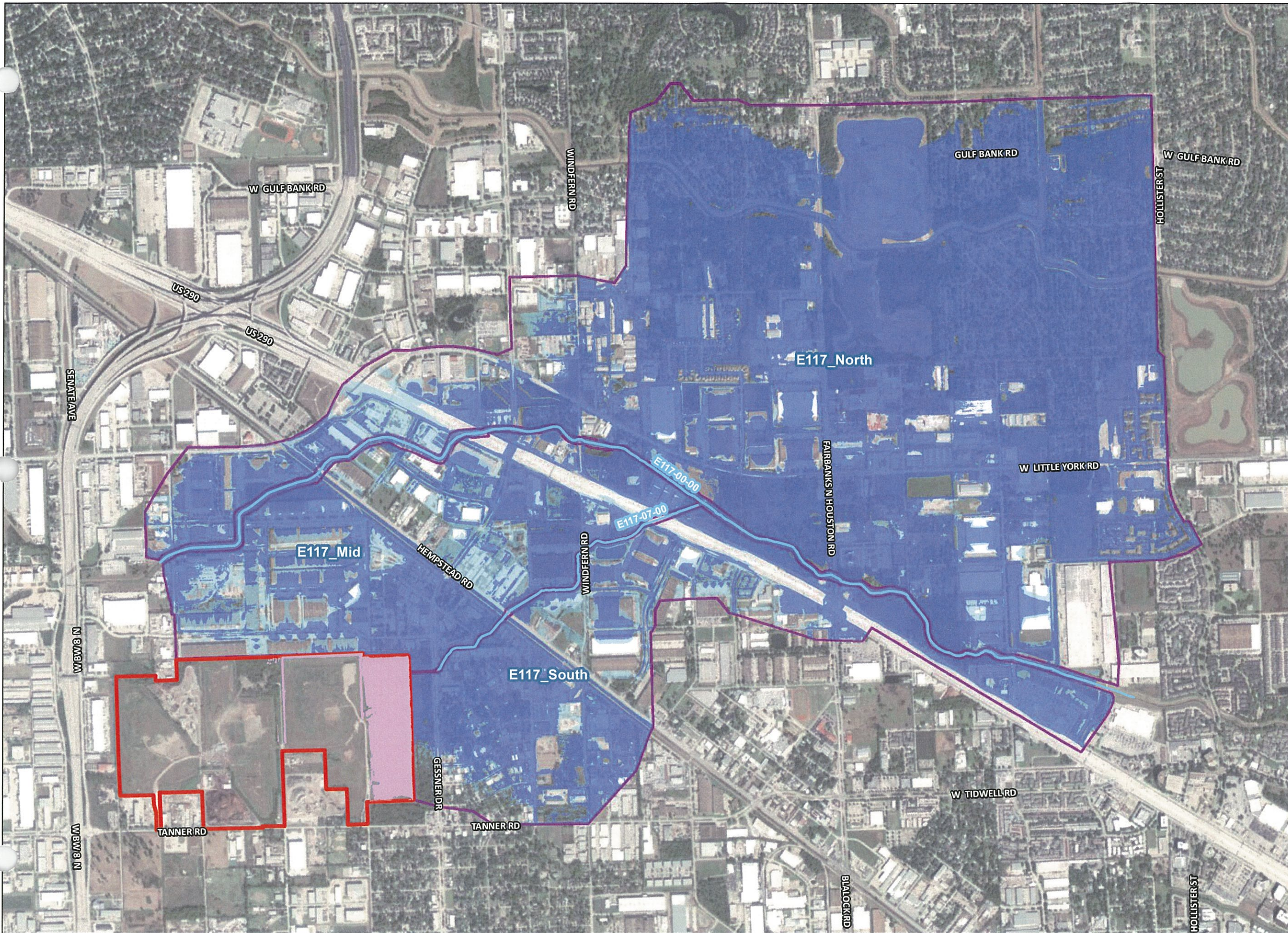
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 Project Number: 15222-0002-00  
 Date: 4/20/2020  
 User Name: TMF



**VICINITY MAP**  
1 INCH = 10 MILES

**LEGEND**

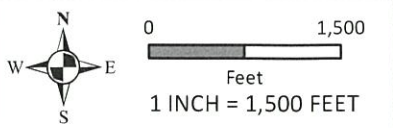
-  HEC-RAS Centerlines
-  Internal Drainage & Detention
-  Atlas 14 100-Year Floodplain
-  Atlas 14 500-Year Floodplain
-  2D Analysis Boundary
-  Detention Service Area

Note: Floodplain delineation limited to area of analysis and evaluates large-scale riverine flooding. Analysis does not include localized drainage features.

\*2019 ESRI IMAGERY

**Exhibit A2-4  
Existing 1D-2D  
Floodplain Results**

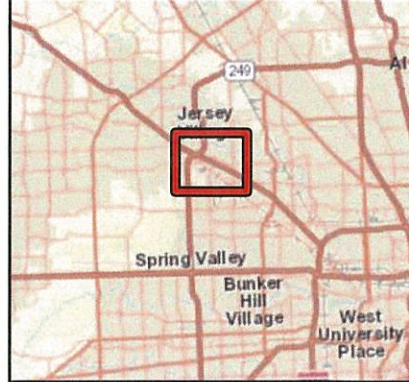
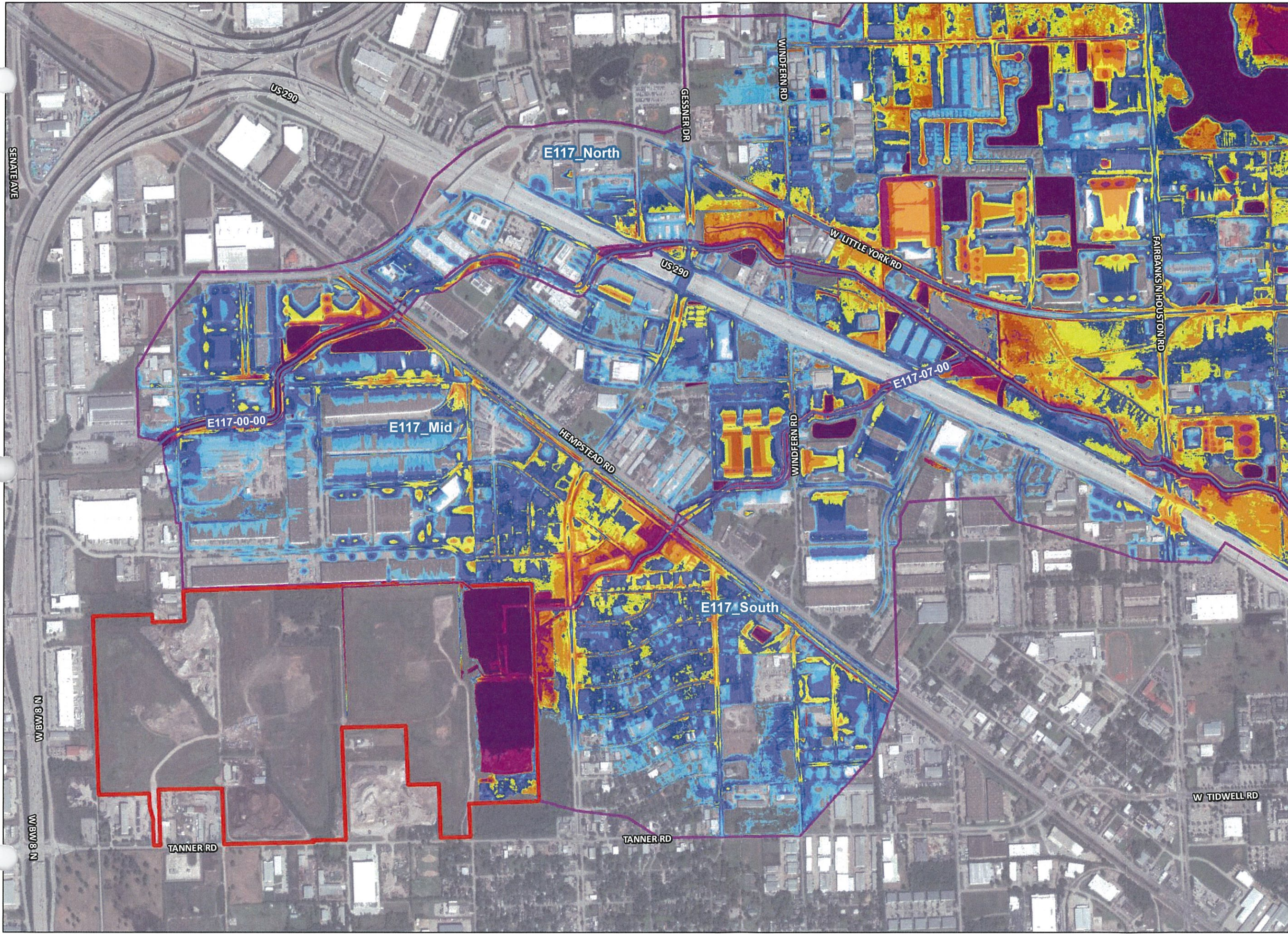
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Path: K:\1522\15222\_0002\_00 Hawthorn Park Permits\2 Design Phase\Analysis\GIS\MapDocs\_A2-4\_1D2D Floodplain.mxd  
 Project Number: 15222\_0002\_00  
 Date: 8/4/2020  
 User Name: TMF



**VICINITY MAP**  
1 INCH = 10 MILES

- LEGEND**
- HEC- RAS Centerlines
  - 2D Analysis Boundary
  - Detention Service Area

- Atlas 14 100-Yr Flood**  
**Depths (feet)**
- 0.0 to 0.25
  - 0.25 to 0.5
  - 0.5 to 1.0
  - 1.0 to 1.5
  - 1.5 to 2.0
  - 2.0 to 2.5
  - 2.5 to 3.0
  - 3.0 to 5.0
  - > 5.0

\*2019 ESRI IMAGERY

**Exhibit A2-5**  
**Atlas 14 100-Year**  
**Depth Results**

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